METAL CEILING SYSTEMS

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SUSPENDED METAL CEILINGS ALBES

ABOUT THE COMPANY

ALBES COMPANY HOLDS LEADING MARKET POSITIONS IN TERMS OF PRODUCTION OF BUILDING FINISHING MATERIALS MADE OF METAL IN RUSSIA AND THE CIS.

THE INVENTORY CONTROL PROGRAM OF THE VERIFIED RANGE BOASTS MORE THAN 2000 ALUMINUM AND STEEL PRODUCTS.

DEVELOPMENT

The company's priority is regular updating of the range to meet the needs of the world market, organization of an effective workflow and improvement of its technical facilities. ALBES annually invests in development, mastering promising methods of developing products and production technologies.

TRAINING CENTER

ALBES Training Center has developed a system for advanced training of specialists and partners of the company. The training center is an important social project aimed at supporting higher and vocational education.

EXPERTNESS

The company offers technical advice from experts of its own architectural and design department. We independently perform development of design documentation. We directly cooperate with architects of design institutes.

SUPPLY

Our well-run system of production chains guarantees quality compliance and the accuracy of terms of delivery to the facility. Shipment is made from a warehouse in Moscow vicinity.

SERVICE

ALBES participates in the implementation of national projects for the arrangement and construction of infrastructure facilities. Installation supervision works are performed by highly qualified specialists of the company. Products comply with technical specifications, exported goods undergo European certification.

АЛБЕС
РОССИЙСКОЕ ПРОИЗВОДСТВЕННОЕ ОБЪЕДИНЕНИЕ

SCOPE OF APPLICATION

RESIDENTIAL DEVELOPMENT
Buildings that include living quarters and designated areas for domestic needs related to living.

CULTURAL AND RECREATION FACILITIES
Development of a multipurpose line, intended for mass recreation of the population.

BUSINESS DEVELOPMENT FACILITIES
A set of spaces where office activities, entrepreneurship and coordination of the business process are performed.

BUILDINGS OF HEALTH FACILITIES
Construction of health facilities and premises combining functions of living and treatment.

TRANSPORT INFRASTRUCTURE FACILITIES
Facilities designed to serve passengers and carriers and to ensure the operation of vehicles.

SPORTS FACILITIES
Buildings that provide the opportunity to conduct a training process, physical culture, recreation, sports and entertainment events.

INDUSTRIAL STRUCTURES
Structures designed to accommodate production facilities providing conditions for the work of personnel and the operation of equipment.

EDUCATIONAL FACILITIES STRUCTURES
Buildings intended for pedagogical processes that are part of the system of primary, secondary, higher or extended education.

CATERING FACILITIES
Facilities for the manufacture of public catering products, creation of conditions for the consumption and sale of goods.

CONSUMER REQUIREMENTS TO FINISHING MATERIALS

FIRE SAFETY

Fire safety of products is confirmed by relevant certificates.

MOISTURE RESISTANCE

Ceiling systems in a special configuration can be used in rooms with high humidity.

FUNCTIONALITY

Ceiling systems are integrated with engineering equipment and hidden utilities.

ACOUSTIC COMFORT

Siding made of perforated metal or PVC with a sound-absorbing substrate or acoustic mat will provide the acoustic environment required in the areas.

WEAR RESISTANCE

Decorative and protective coating protects against aggressive environment and mechanical impacts.

ANTIBACTERIALITY

Special powder coating is resistant to the spread of bacteria on the painted surface.

ENVIRONMENTAL COMPATIBILITY

The products comply with the environmental standards of the Russian Federation and are recyclable.

ORIGINALITY

A wide range of cladding options and methods of functional and decorative design.

ISO 9001 QUALITY MANAGEMENT SYSTEM

The high quality of ALBES products and the level of customer service are certified by the International Quality Management System ISO 9001 (certificate No POCC RU. HK90. K00327 dated 0708.2019).

The standards aim to create and support processes in accordance with new market situations and trends.

The following quality control regulations have been implemented and are operating at the company:

- quality control of input raw materials and semi-finished products;
- verification of compliance with the production technology and operation of process equipment;
- quality control of finished products;
- monitoring compliance with the conditions of storage, handling and transportation.

An important line is the development of corporate culture and motivation in the system of advanced training of employees.

ANTIBACTERIAL PROTECTION

When manufacturing systems for medical facilities, ALBES uses a powder coating that prevents the spread of bacteria on the surface.

Due to the composition with silver ions, the paint blocks the growth of microorganisms, bacteria and mold.

- Silver ions destroy cell membranes, protein compounds and DNA of hazardous elements.
- Antibacterial coating is durable and does not lose its declared properties.

SPECIFICS OF APPLICATION OF MIRROR SURFACE PRODUCTS

Products with a mirror surface with a color code A741a02 (super-chrome) do not have a protective lacquer coating. The surface material has limitations in application in respect of operating conditions in wet rooms. According to SP 50.13330.2012, products made of A741a02 material shall be operated in closed areas with a temperature of 12-24 ° C and air humidity of 60-75%. In accordance with SP 28.13330.2017, the degree of environment aggressiveness shall be non-aggressive.

It is not allowed to use products made of this material in rooms where the following is possible:

- direct ingress of moisture on the mirror surface of the product;
- generation of condensate droplets on the mirror surface;
- release of vapors of aggressive substances.

DESIGNING AND DESIGNER SUPERVISION

A team of experts of the architectural and design department of ALBES will perform the layout of facing systems, develop nodal solutions and installation diagrams of the supporting frame elements and provide with design documentation.

Monitoring compliance in the course of construction with the requirements of design documentation, technical characteristics and artistic intent of the architect.

CONSTRUCTION AND TECHNICAL CONSULTING

Subject matter experts in the field of construction have access to unique experience in the development of state, industrial and civil facilities.

ALBES experts provide information support services for all participants of the investment project - from owners and contractors to architectural and design and construction companies.

Scalability to meet the real needs and objective capabilities of customers guarantees comfortable cooperation with both small local companies and state developers.

STANDARDIZATION AND REGULATORY DOCUMENTS

Specifications (TU)

Monitoring of released products in accordance with the regulatory framework to technical specifications of production.

ALBES products comply with the rules regulating construction of buildings:

- **SP 50.13330.2012**
(thermal protection of buildings)
- **SP 28.13330.2017**
(protection of engineering structures against corrosion)
- **SP 163.1325800.2014**
(bearing capacity)
- **SP 3.5.1378-03**
(sanitary and epidemiological requirements for the arrangement and implementation of disinfection activities)

R&D AND APPROVAL

When creating a new product or technology, ALBES cooperates with leading organizations in the field of standardization, certification and creation of a regulatory framework: A. Kucherenko Central Research Institute of engineering structures, NIIMOSSTROY, VNIIPO, POZH-AUDIT, Melnikov Central Research Institute of Construction Metal Structures, NIISF RAASN, NITU MISIS and many others.

BIM MODELS

BIM models by ALBES accurately reflect technical characteristics of the products: varieties of suspension systems, sizes, equipment.

BIM models can be downloaded from www.aLbes.ru

ALBES FOR GREEN CONSTRUCTION

One of the most noticeable trends in the construction sector is the construction of "green" buildings. In many countries of the world, this field has long been regulated by law!

ALBES is a reliable supplier of products that fully comply with the fundamental principles of environmental responsibility.

"Green construction" refers to technologies that allow achieving global goals for the preservation of environmental comfort on Earth.

REDUCING HARMFUL EMISSIONS AND WASTE

Aluminum and steel are metals suitable for further processing an unlimited number of times. With secondary remelting, it is possible to reduce energy costs by 95%, in comparison with primary processing, thereby reducing carbon dioxide emissions into the atmosphere. These metals are strong and durable materials, which significantly prolongs the life cycle of the operated facility.

HIGH-QUALITY HARMLESS RAW MATERIALS

The company carefully monitors the quality of the purchased raw materials. Laboratory studies: electromagnetic, chemical, radiological measurements, toxicological examinations prove the sanitary and hygienic safety of aluminum and steel products.

REDUCING RESOURCE CONSUMPTION

ALBES carries out activities aimed at organizing an effective workflow and improving technical facilities of the enterprise.

Production lines meet European standards for the consumption of renewable resources.

Proven layup and loading schemes optimize transportation and storage costs. In addition, by purchasing materials from a Russian manufacturer, it is possible to reduce the transport route of materials to the facility, which also has a positive effect on the environment.

ATMOSPHERIC COMFORT INSIDE THE BUILDING

Personal temperature and airflow control, combined with a properly designed building envelope, can improve the quality of the indoor environment. A comfortable atmosphere is achieved by a balanced ratio between heat generation and heat loss.

Due to its properties, the facade products of ALBES prevent heat from escaping to the outside. In addition, technological and design features make a significant contribution to reducing energy consumption of buildings and improving energy efficiency.

SOUND COMFORT

The Laboratory of Architectural Acoustics and Acoustic Materials of NIISF RAASN and ALBES carried out scientific and technical work to measure the frequency characteristics of sound absorption coefficients of acoustic metal panels. The obtained measurement results indicate high coefficients of sound absorption of product samples in the medium and high frequency band.

VISUAL COMFORT

ALBES ceiling systems of light colors have a high reflectivity, thanks to which up to 90% of the following indicators can be achieved:

- Reduction of energy consumption in the room;
- Reduction of the building ventilation and air conditioning costs.

FIRE SAFETY

General fire safety requirements for facilities, fire-fighting products and general-purpose products are specified in Federal Law No. 123-FZ TECHNICAL REGULATIONS ON FIRE SAFETY REQUIREMENTS.

FIRE HAZARD CLASSES OF CONSTRUCTION MATERIALS

FH properties of construction materials	FH class of construction materials					
	KM0	KM1	KM2	KM3	KM4	KM5
Combustibility	NG	G1	G1	G2	G3	G4
Inflammability	—	B1	B2	B2	B2	B3
Smoke generation ability	—	D2	D2	D3	D3	D3
Toxicity	—	T2	T2	T2	T3	T4
Flame spread	—	RP1	RP1	RP2	RP2	RP4

The determining indicator for FH class is the flammability group.

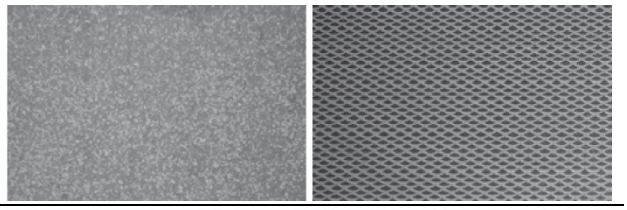
By methods of flammability tests according to GOST 30244-94, construction materials are divided into non-combustible (NG) and combustible (G), the greater the indicator G, the more combustible the material.

FH requirements for suspended ceiling frames	FH requirements for ceiling and wall cladding	FH requirements for exterior walls
ALBES PRODUCTS		
In all rooms and along escape routes (Article 134 § 5), the frames of suspended ceilings in the rooms and on the escape routes shall be made of non-combustible materials. Painted with paint coatings frames made of non-combustible materials shall be of combustibility group NG or G1	In specific rooms of various buildings KM0-KM4* On the escape routes in all buildings KM0-KM2* In hall areas of all buildings KM0-KM3* * depending on the type of building	For the cladding of facades, external heat insulation systems of constructive fire hazard K0 class shall be used, BUT it is necessary to take into account the requirements of specialists of organizations that participate in the "design survey work" and acceptance of the construction facility, which often consider the fire hazard class of the facing material KM0 (i.e. the NG group).

ALBES has technological capabilities that allow combining various solutions for specific legislative requirements for the building facility. Metals with galvanic coatings without a polymer layer are non-corrosive, in accordance with FH class they are of NG category.

GALVANIZED STEEL PVA

Thin-sheet rolled steel coated with a microscopic layer of zinc.



STAINLESS STEEL

Products with soft metallic luster.

CORTEN STEEL

Unique products in shades of rusty metal with a rough surface.

ALUMINUM

Light products in silver color.

ANODIZED ALUMINIUM

The variety of metal colors offers the widest possibilities for finishing.

COPPER, BRASS

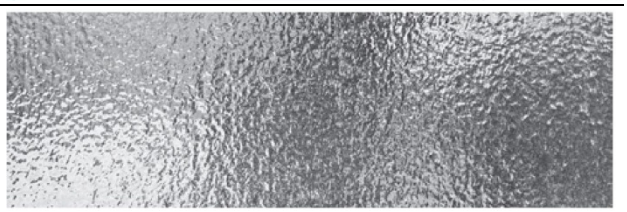
It is used for designing products with the effect of noble antiquity.

CERAMIC METAL

Products made of heterogeneous composition of metals with ceramics.

PRODUCTS WITH SILICATE COATINGS

The coating is based on the use of mineral binder liquid glass.



LATH CEILING

Suspended lath ceiling is an opportunity to create expressive, embossed structures.

The customer has a huge choice of decorative design of laths. In addition to painting and choosing the material of manufacture, you can diversify the appearance by choosing a method of metal processing.

To design wide spaces, at the junctions of ceiling laths, a special connecting element in the color of the products is used.

Using adjustable suspensions, the suspended ceiling is attached to the load-bearing building structures. Offset from the rough ceiling can be at any level specified in the project. It is allowed to attach the rack directly to the construction base.

Some types of rack systems can be used outdoors.

The standard rack painted with powder paint, is available in a length of 3 or 4 meters. Customized racks from finished raw materials can be up to 6 meters (the length of the finished product is a multiple of 1 cm).

Installation of laths shall be performed strictly in accordance with the direction of arrows on the protective film.

The set of lath ceiling includes:

- Laths;
- Racks;
- Decorative elements (individual set for each design);
- Perimetral profile;
- Adjustable suspensions: AP/euro-suspension/universal suspension/nonius suspension.

Non-aggressive Weakly aggressive average aggressive (SP 28.13330.2017)

< +90°C

Combustibility NG, G1*

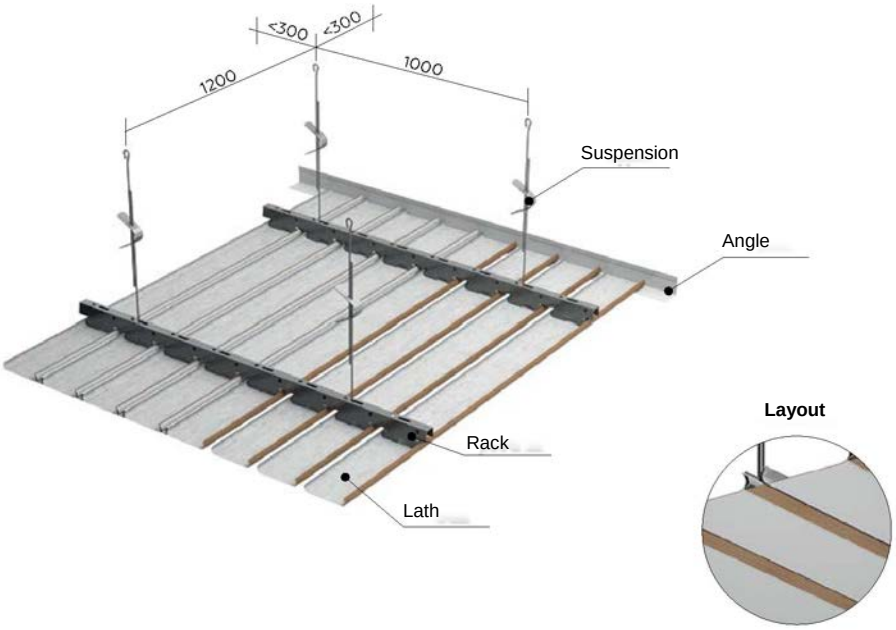
Dry
Wet
Normal (SP 50.13330.2012)

* In accordance with valid certificates

BASIC ASSEMBLY DIAGRAM

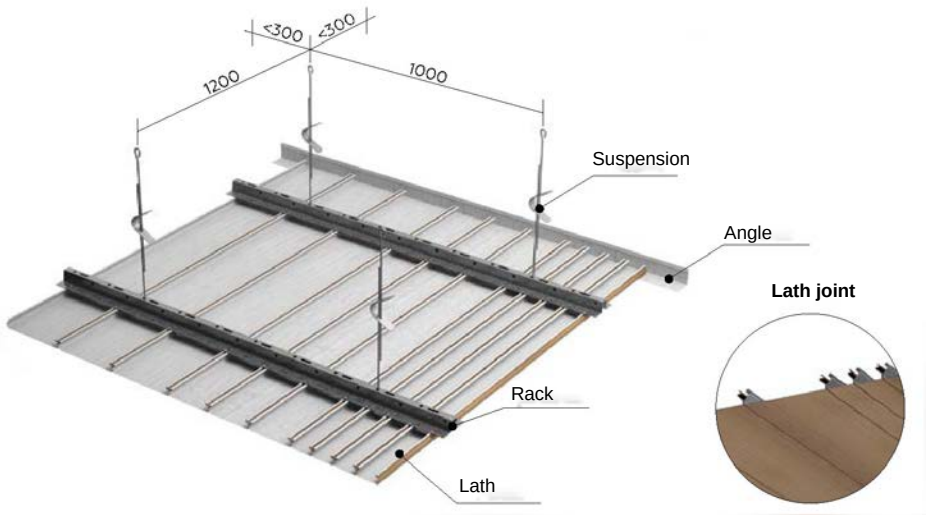
WITH OPEN JOINTS

- Cube-shaped design
- Plate-shape design
- V-shape design
- Rectangular design
- Italian design
- German design



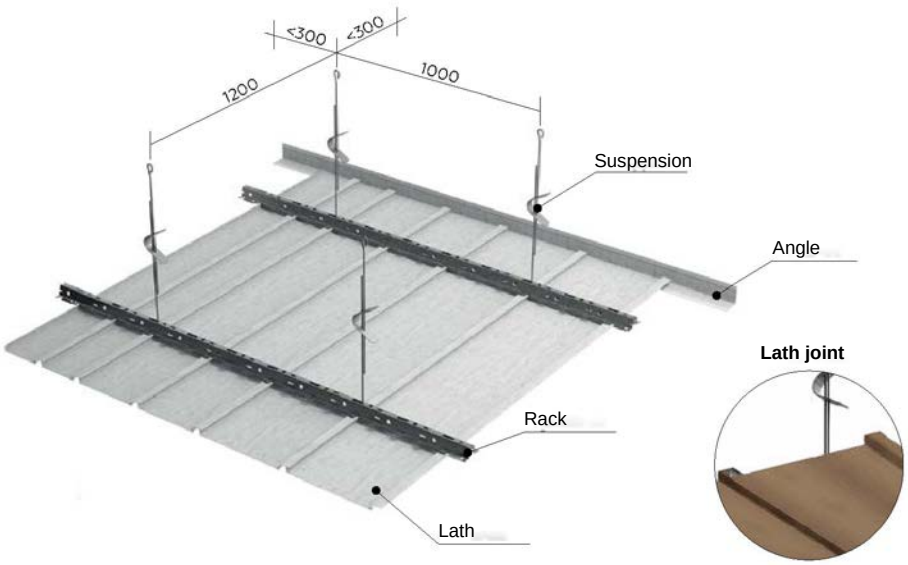
HIDDEN JOINT

- Omega
- S-design



WITH CLOSED JOINTS

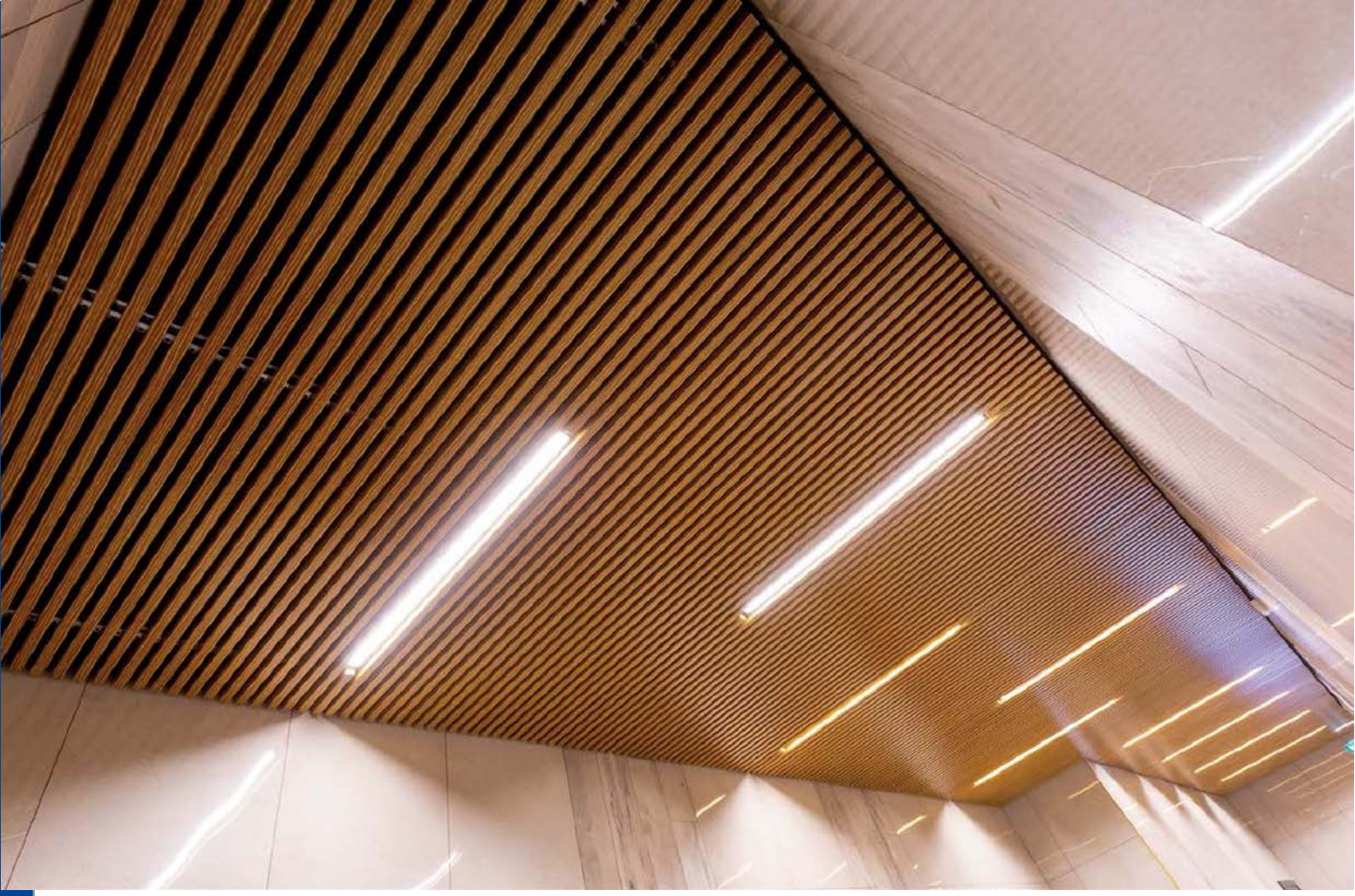
- Italian design
- German design



SUMMARY TABLE

Name of the ceiling	System brand	Product name					Manufacture material			Layout L=3m, 4m	Rack L= 3 m, 4 m
		Rack L=3m, 4m					AL	Galvanized steel	pva		
		Rack brand	Rack height, mm	Rack width, mm	Clearance (pitch), mm	Module, mm	Thickness, mm	Thickness, mm	-		
Open joint											
Cube-shaped design	A50S	A38/S	38	30	20	50	0.3-0.58	0.4	-	ASB-50 ASM-50	BT-4-50 BT-12-50
		A50/S	50	30	20	50	0.4-0.78	0.5-0.7	-	-	BT-4-50 BT-12-50
		A85/S	85	30	20	50	0.4-0.78	0.5-0.7	-	-	BT-4-50 BT-12-50
		A110/S	110	30	20	50	0.4-0.78	0.5-0.7	-	-	BT-4-50 BT-12-50
		A160/S	160	30	20	50	0.4-0.78	0.5-0.7	-	-	BT-4-50 BT-12-50
		A200/S	200	30	70	100	0.4-0.78	0.5-0.7	-	-	BT-4-50 BT-12-50
		A250/S	250	30	70	100	0.4-0.78	0.5-0.7	-	-	BT-4-50 BT-12-50
		A300/S	300	30	70	100	0.4-0.78	0.5-0.7	-	-	BT-4-50 BT-12-50
	A60S	A25/35/S	35	25	35	60	0.3-0.58	0.4	-	-	BT-4-60
	A70S	A25/S	25	37.5	32.7	70.2	0.3-0.58	0.4	-	AS B-70	BT-4-70
		A40/50/S	50	37.5	32.7	70.2	0.3-0.58	0.4	-	-	BT-4-70
		A40/70/S	70	37.5	32.7	70.2	0.3-0.58	0.4	-	-	BT-4-70
		A40/100/S	100	37.5	32.7	70.2	0.3-0.58	0.4	-	-	BT-4-70
	A95S	A50/50/S	50	50	45	95	-	0.4-0.5	-	-	BT-17-95
		A75/50/S	50	70	20	95	-		-	-	BT-17-95
	A100S	A80/35/S	35	80	20	100	0.4-0.58	0.5-0.7	-	ASB-50 ASM-50	BT-4-50 BT-12-50
		A80/80/S	80	80	20	100	0.4-0.78	0.5-0.7	-	-	BT-4-50 BT-12-50
		A80/100/S	100	80	20	100	0.4-0.78	0.5-0.7	-	-	BT-4-50 BT-12-50
Rectangular design	A50SV	A30/SV	14	30	20	50	0.3-0.4	-	-	ASB-50 ASM-50	BT-4-50 BT-12-50
	A100SV	A80/SV	14	80	20	100	0.3-0.4	0.3-0.5	-		BT-4-50 BT-12-50
	A150SV	A130/SV	14	130	20	150	0.3-0.4	0.3-0.5	-		BT-4-50 BT-12-50
	A200/SV	A180/SV	14	180	20	200	0.4-0.58	0.3-0.5	-		BT-4-50 BT-12-50
Plate-shape design	A50SP	A91/SP	91	-	50	50	0.3-0.4	-	-	-	BT-4-50
	A70SP	A91/SP	91	-	70	70.2	0.3-0.4	-	-	-	BT-4-70
V-shape design	A50V	A40/V(50)	39	45	5	50	0.3-0.4	-	-	ASB-50	BT-4-50
	A50V	A90/V	90	52	20	50	0.4-0.78	0.5-0.7	-	-	BT-4-50 BT-12-50
	A70V	A40V/(70)	39.5	30	18	70.2	0.3-0.4	-	-	AS B-70	BT-4-70
Italian design	A90A	A84A	16	84	6	90	0.4-0.58	-	+	-	BT-3-90
	A100A	A84A	16	84	16	100	0.4-0.58	-	+	AS	BT-3-100
German design	AN100A	AN85/A	12.5	85	15	100	0.3-0.58	-	-	ASN	BTN
	AN150A	AN135/A	12.5	135	15	150	0.3-0.58	-	-	ASN	BTN
	AN200A	AN185/A	12.5	185	15	200	0.3-0.58	-	-	ASN	BTN
Closed joint											
Italian design	A100AC	A84/AC	16	84	16	100	0.4-0.58	-	-	-	BT-3-100
German design	AN100AC	AN85/AC	12.5	85	15	100	0.3-0.58	-	-	-	BTN
	AN150AC	AN135/AC	12.5	135	15	150	0.3-0.58	-	-	-	BTN
	AN200AC	AN185/AC	12.5	185	15	200	0.46-0.58	-	-	-	BTN
Hidden joint											
S-design	A25AS	A25/AS	13.2	25	-	25	0.3-0.4	-	-	-	BTS
	A100AS	A100/AS	13.2	100	-	100	0.3-0.4	-	-	-	BTS
	A150AS	A150/AS	13.2	150	-	150	0.3-0.4	-	-	-	BTS
OMEGA	A50AT	A50/AT	19.2	50	-	50	0.3-0.4	0.5	-	-	BT-8
	A100AT	A100/AT	19.2	100	-	100	0.3-0.58	0.4-0.5	-	-	BT-8
	A150AT	A150/AT	19.2	150	-	150	0.3-0.58	0.4-0.5	-	-	BT-8

Perforation of 0 1.5 mm is possible



NOTE

- With increased wind and vibration loads, the ceiling is recommended to be mounted on a suspension system of VT-12-50 brand. This provides a more reliable fixation of the lath in the rack.
- Installation of laths with a height (H) of more than 200 mm is recommended with a minimum gap of 70 mm between the laths.
- The connecting element and the end plug shall be the same color as the lath and correspond to the height of the lath used in the design.
- The connecting element for the rack shall be the same color as the racks.
- The number of decorative inserts depends on the module of installation of laths, pitch of the racks. **In case of a gap of 20 mm, no decorative insert is used.**
- The lath lock prevents sides of the lath from opening and dropping off the rack. It shall be the same color as the lath and shall be used in all places where the lath and rack intersect.
- The flow rate is presented for racks with a length of 4 m and may change with a different length of the product.

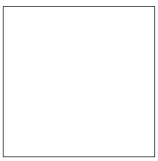
CUBE-SHAPED DESIGN

TECHNICAL CHARACTERISTICS

Rack brand	H	A	H1	Rack length, m	Material and thickness, mm		
	Rack height, mm	Rack width, mm	Total height, mm		AL	Galvanized steel	PVA
A38/S	38	30	74.5	3 or 4, customized up to 6	0.3 - 0.58	0.4	-
A50/S	50	30	86.5	3 or 4, customized up to 6	0.4 - 0.78	0.5 - 0.7	-
A85/S	85	30	121.5	3 or 4	0.4 - 0.78	0.5 - 0.7	-
A110/S	110	30	146.5	3 or 4	0.4 - 0.78	0.5 - 0.7	-
A160/S	160	30	196.5	3 or 4	0.4 - 0.78	0.5 - 0.7	-
A200/S	200	30	236.5	3 or 4	0.58 - 0.78	0.5 - 0.7	-
A250/S	250	30	286.5	3 or 4	0.58 - 0.78	0.5 - 0.7	-
A300/S	300	30	336.5	3 or 4	0.58 - 0.78	0.5 - 0.7	-
A25/S	25	37.5	61.5	3 or 4, customized up to 6	0.3 - 0.58	0.4	-
A25/35/S	35	25	71.5	3 or 4, customized up to 6	0.3 - 0.58	0.4	-
A40/50/S	50	40	86.5	3 or 4	0.4 - 0.6	0.5	-
A40/70/S	70	40	106.5	3 or 4	0.4 - 0.6	0.5	-
A40/100/S	100	40	136.5	3 or 4	0.4 - 0.6	0.5	-
A50/50/S	50	50	82.6	3 or 4, customized up to 6	-	0.4 - 0.5	-
A75/50/S	50	75	82.6	3 or 4, customized up to 6	-	0.4 - 0.5	-
A80/35/S	35 mm	80 mm	71.5 mm	3 or 4, customized up to 6	0.4 - 0.58	0.5 - 0.7	-
A80/80/S	80	80	116.5 mm	3 or 4	0.58 - 0.78	0.5 - 0.7	-
A80/100/S	100 mm	80	136.5 mm	3 or 4	0.58 - 0.78	0.5 - 0.7	-

COLOR DESIGN *

Basic colors



White

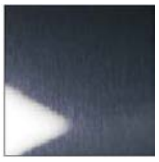
Black

Metallic and mirror

Metallic

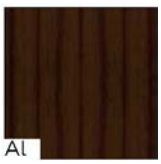
Metallic matted

Super gold



Super chrome

Wood grain



Dark wood

Light wood

Grain W203-1013

Grain W212-1214

RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

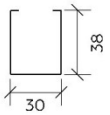
Perforation Ø = 1.5 mm is possible

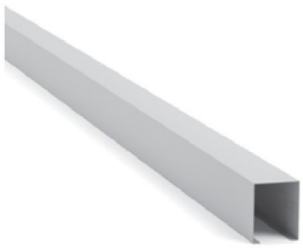
For perforation pattern refer to page page 121

STANDARD SIZES OF LATH

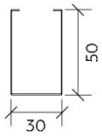
LATH WIDTH 30 MM

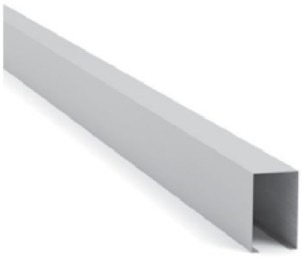
Lath
A38S



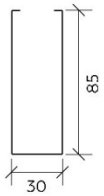


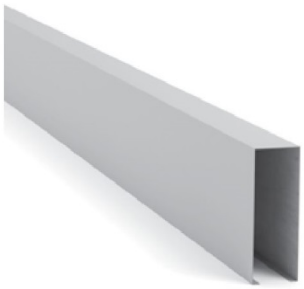
Lath
A50/S





Lath
A85/S



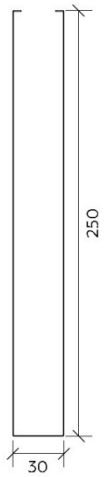


Lath
A110/S

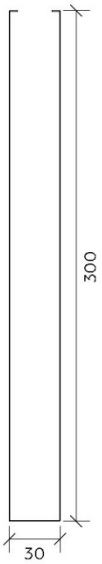
Lath
A160/S

Lath
A200/S

Lath
A250/S

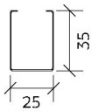


Lath
A300/S



LATH WIDTH 25 MM

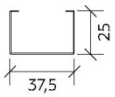
Lath
A25/35/S



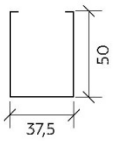
STANDARD SIZES OF LATH

LATH WIDTH 37.5 MM

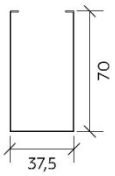
Lath
A25/S



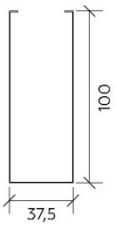
Lath
A40/50/S

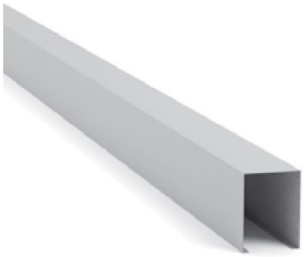


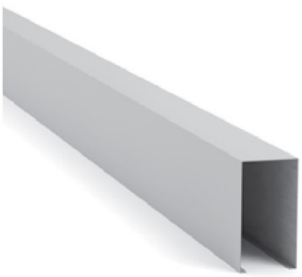
Lath
A40/70/S



Lath
A40/100/S

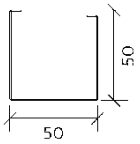






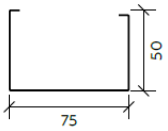
LATH WIDTH 50 MM

Lath
A50/50/S



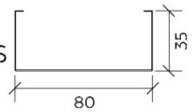
LATH WIDTH 75 MM

Lath
A75/50/S

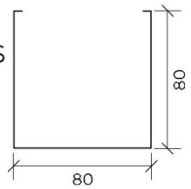


LATH WIDTH 80 MM

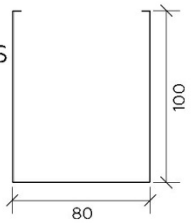
Lath
A80/35/S

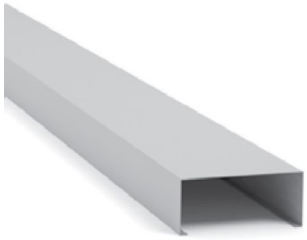


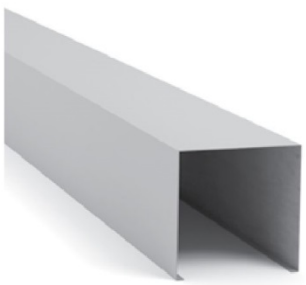
Lath
A80/80/S



Lath
A80/100/S

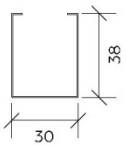


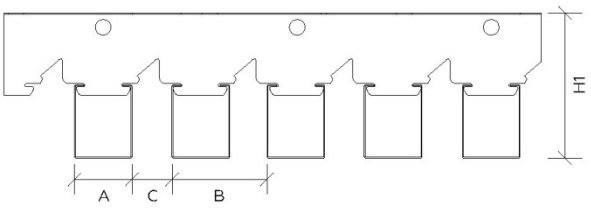




A50S SYSTEM

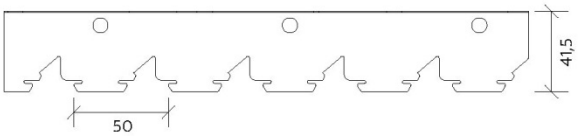
A38/S BRAND



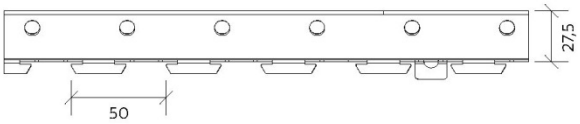


A - lath width
B - module
C - gap
H1 - height of lath with the rack

Rack BT 4-50

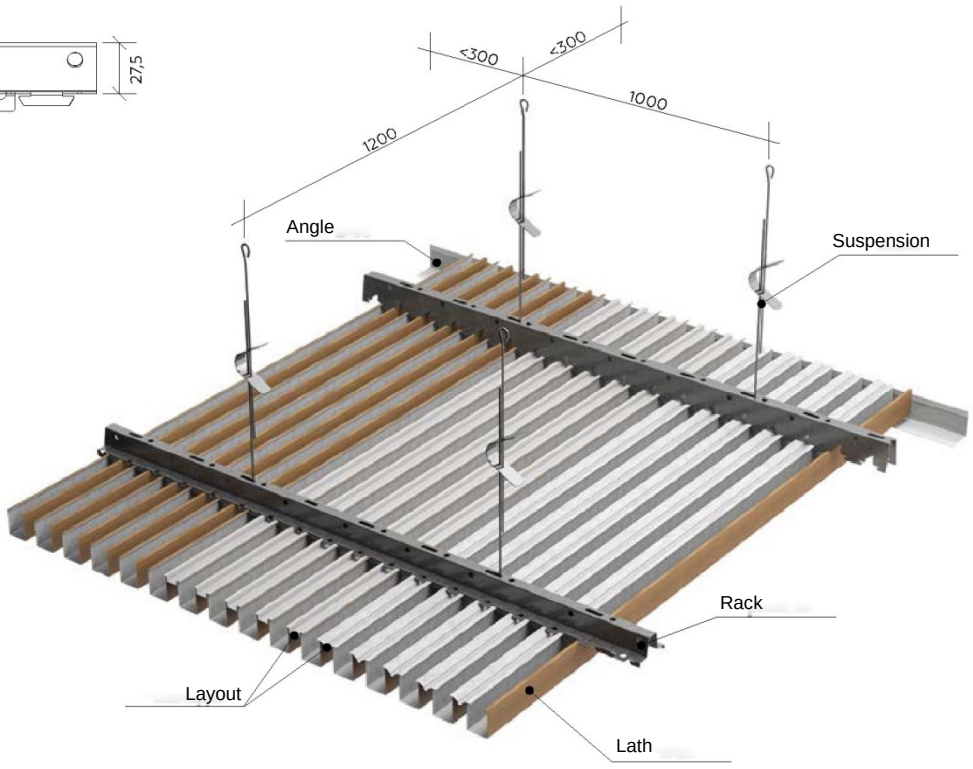


Rack BT 12-50



Connector for lath

Layout



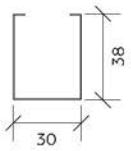
COMPLETE SET

Lath	Lath connector, L=200	Rack	Layout	Suspension
Module (B) 50 mm, gap (C) 20 mm				
A38/S	A38/S	BT-4-50 BT-12-50	ASB-50 ASM-50	AP, EURO, universal, nonius suspension.
Flow per 1m^2				
20 lin. m.	according to calculation	0.89 lin. m.	20 lin. m.	0.83 set

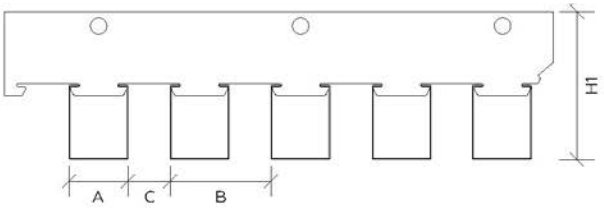
The system can be equipped with PL 19x24 or PLL angles if larg ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

A50S SYSTEM

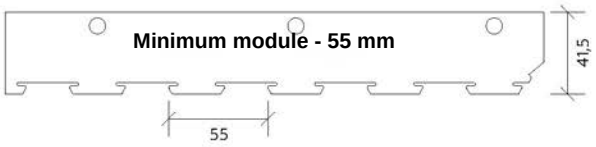
BRAND A38/S HA BT-19

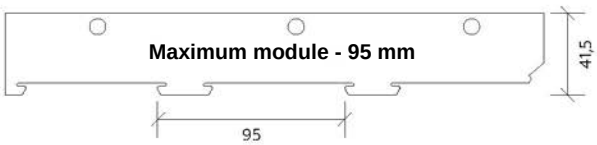


Rack BT 19



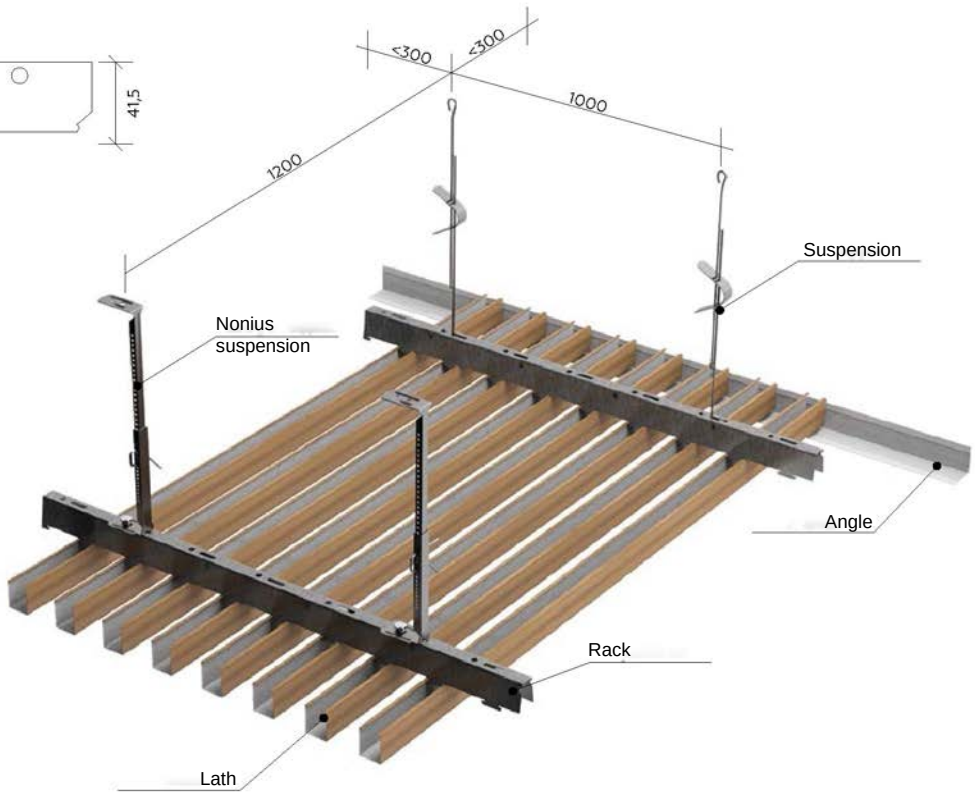
A - lath width
B - module
C - gap
H1 - height of lath with the rack





Connector for rack

Connector for lath



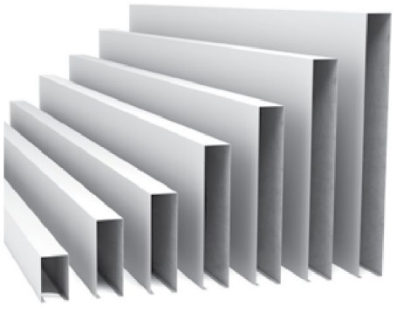
COMPLETE SET

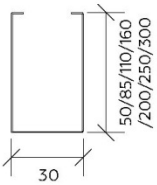
Lath	Lath connector, L=200	Rack	Connector for rack	Suspension
Module (B) 55 mm, gap (C) 25 mm				
A38/S	A38/S	BT-19-55	BT-19-55	AP, EURO, universal, nonius suspension.
Flow per 1m^2				
18.19 lin. m.	according to calculation	1.12 lin. m.	0.28 un.	1.23 set

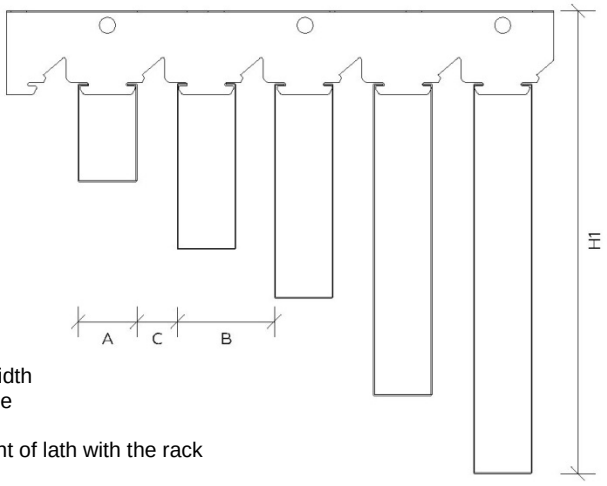
The system can be equipped with PL 19x24 or PLL angles if larg ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

A50S SYSTEM

BRAND A50/S - A300/S

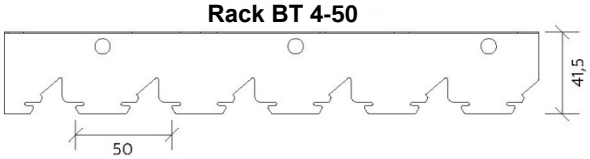




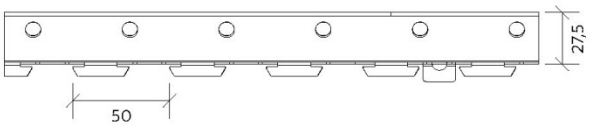


A - lath width
B - module
C - gap
H1 - height of lath with the rack

Rack BT 4-50



Rack BT 12-50



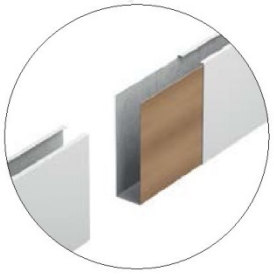
COMPLETE SET

Lath	Lath connector, L=200	Lath retainer	End plug	Rack	Rack connector	Decorative insert	Layout	Suspension
Module (B) 50 mm, gap (C) 20 mm								
A50/S, A85/S, A110/S, A160/S	A_S*	A_S*30	A_S*	BT-4-50 BT-12-50	BT-4-50 BT-12-50	—	ASB-50 ASM-50	AP, EURO, universal, nonius suspension.
Flow per 1m^2								
20 lin. m.	according to calculation	22.4 un.	according to calculation	1.12 lin. m.	0.28 un.	—	20 lin. m.	1.23 set
Module (B) 100 mm, gap (C) 70 mm								
A50/S, A85/S, A110/S, A160/S, A200/S, A250/S, A300/S	A_S*	A_S*30	A_S*	BT-4-50 BT-12-50	BT-4-50 BT-12-50	DV 70	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2								
10 lin. m.	according to calculation	11.2 un.	according to calculation	1.12 lin. m.	0.28 un.	11.2 un.	—	1.23 set
Module (B) 150 mm, gap (C) 120 mm								
A50/S, A85/S, A110/S, A160/S, A200/S, A250/S, A300/S	A_S*	A_S*30	A_S*	BT-4-50 BT-12-50	BT-4-50 BT-12-50	DV 120	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2								
6,67 lin. m.	according to calculation	7.5 un.	according to calculation	1.12 lin. m.	0.28 un.	7.4 un.	—	1.23 set
Module (B) 200 mm, gap (C) 170 mm								
A50/S, A85/S, A110/S, A160/S, A200/S, A250/S, A300/S	A_S*	A_S*30	A_S*	BT-4-50 BT-12-50	BT-4-50 BT-12-50	DV 170	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2								
5 lin. m.	according to calculation	5.6 un.	according to calculation	1.12 lin. m.	0.28 un.	5.6 un.	—	1.23 set

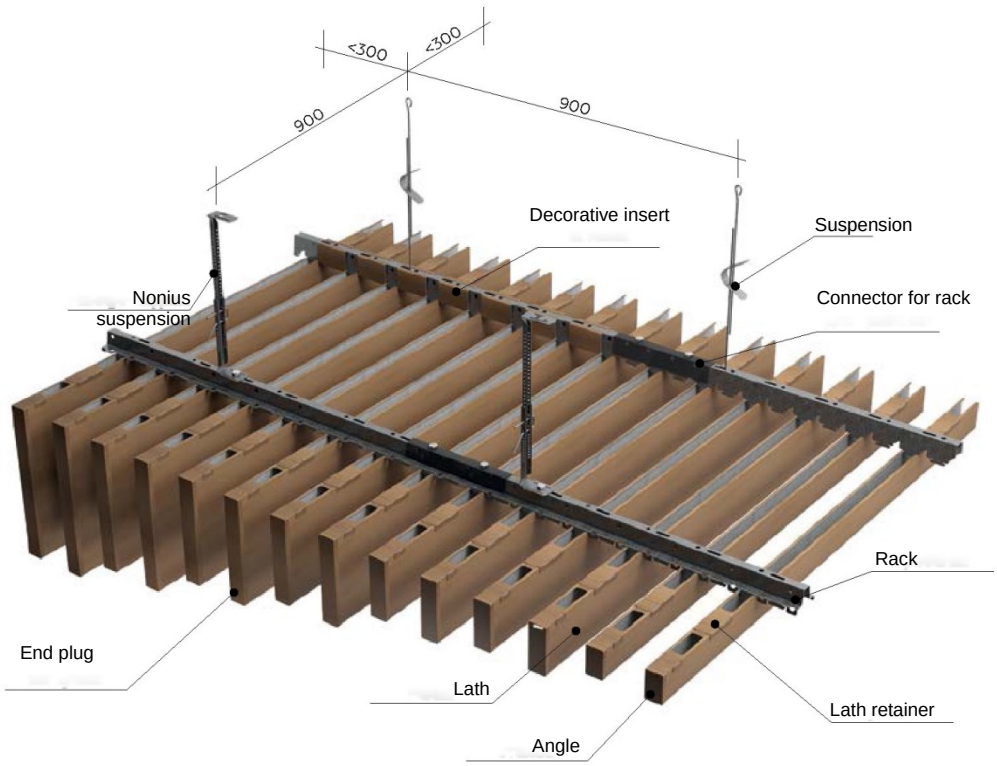
The system can be equipped with PL 19x24 or PLL angles, if no end plugs are used. Consumption per 1 ^{m2} is according to the design.

* A_S when ordering, specify the brand of the lath, for example, A50/S, instead of _.

Connector for lath

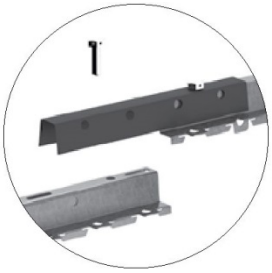


Lath retainer



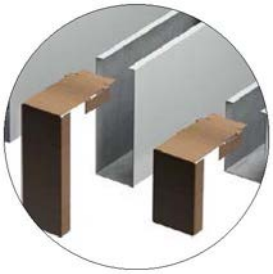
Connector for rack BT-4-50

Connector for rack BT-12-50



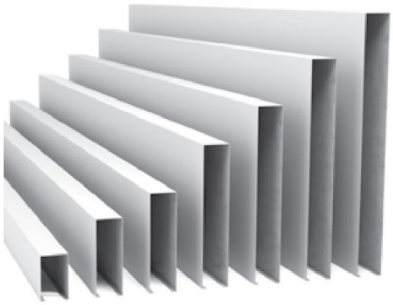
Decorative insert

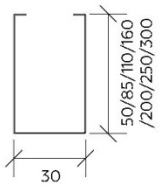
End plug

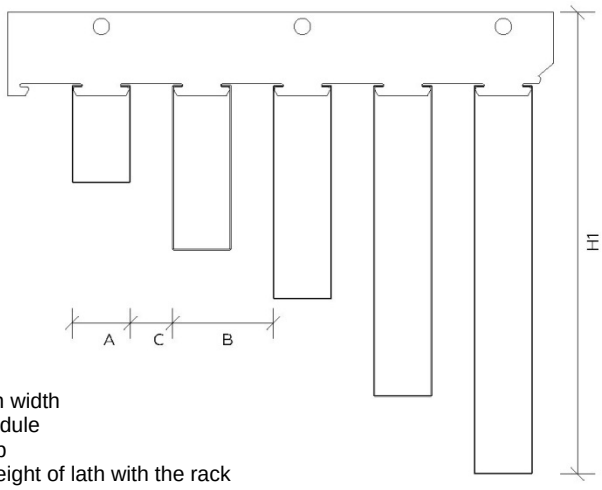


A50S SYSTEM

GRADES A50/S - A300/S HA BT-19



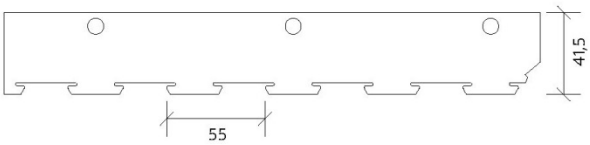




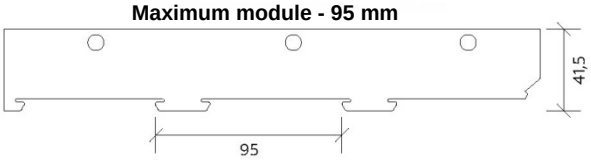
A - lath width
B - module
C - gap
H1 - height of lath with the rack

Rack BT 19

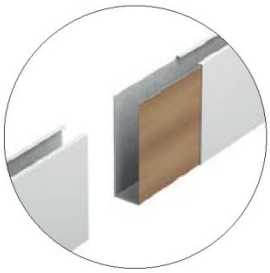
Minimum module - 55 mm



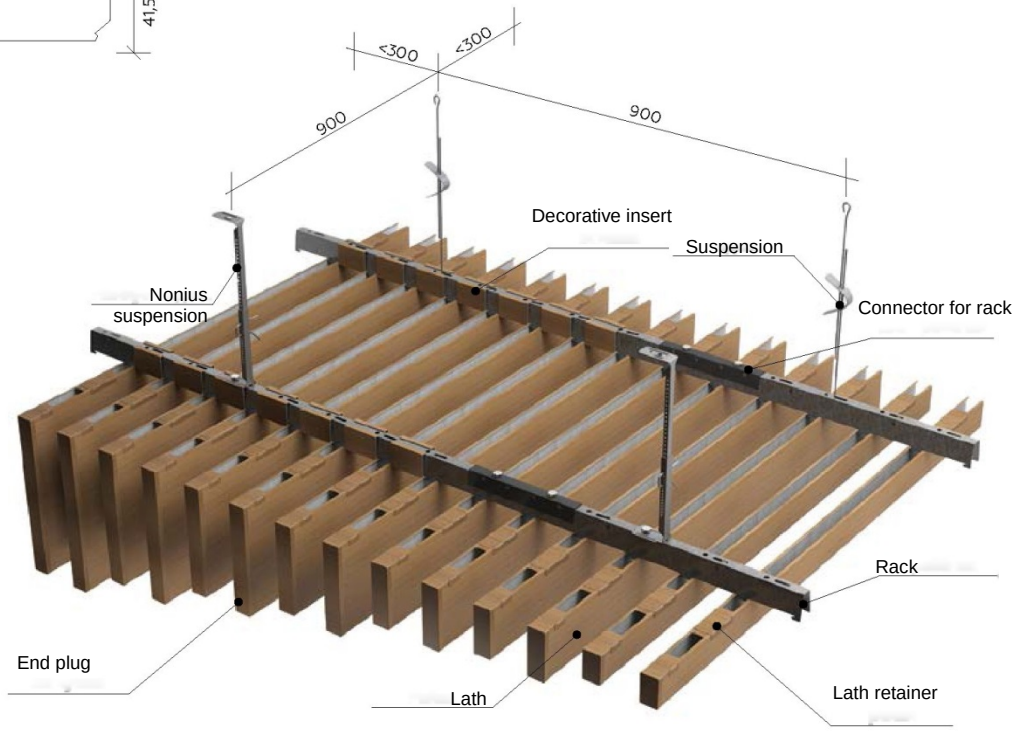
Maximum module - 95 mm



Connector for lath



Lath retainer



Rack connector

Decorative insert

End plug

A50S SYSTEM

GRADES A50/S - A300/S HA BT-19

COMPLETE SET

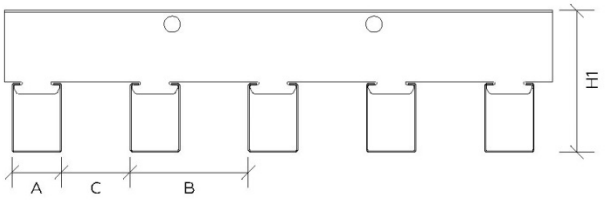
Lath	Lath connector, L=200	Lath retainer	End plug	Rack	Connector for rack	Decorative insert	Suspension
Module (B) 55 mm, gap (C) 25 mm							
A50/S, A85/S	A_S*	A_S*30	A_S*	BT-19-55	BT-19-55	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
18.19 lin. m.	according to calculation	20.37 un.	according to calculation	1.12 lin. m.	according to calculation	—	1.23 set
Module (B) 60 mm, gap (C) 30 mm							
A50/S, A85/S	A_S*	A_S*30	A_S*	BT-19-60	BT-19-60	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
16,67 lin. m.	according to calculation	18.67 un.	according to calculation	1.12 lin. m.	according to calculation	—	1.23 set
Module (B) 65 mm, gap (C) 35 mm							
A50/S, A85/S, A110/S	A_S*	A_S*30	A_S*	BT-19-65	BT-19-65	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
15,38 lin. m.	according to calculation	17.23 un.	according to calculation	1.12 lin. m.	according to calculation	—	1.23 set
Module (B) 70 mm, gap (C) 40 mm							
A50/S, A85/S, A110/S	A_S*	A_S*30	A_S*	BT-19-70	BT-19-70	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
14.29 lin. m.	according to calculation	16 un.	according to calculation	1.12 lin. m.	according to calculation	—	1.23 set
Module (B) 75 mm, gap (C) 45 mm							
A50/S, A85/S, A110/S	A_S*	A_S*30	A_S*	BT-19-75	BT-19-75	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
13.33 lin. m.	according to calculation	14,92 un.	according to calculation	1.12 lin. m.	according to calculation	—	1.23 set
Module (B) 80 mm, gap (C) 50 mm							
A50/S, A85/S, A110/S, A160/S	A_S*	A_S*30	A_S*	BT-19-80	BT-19-80	DV-50	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
12.50 lin. m.	according to calculation	14 un.	according to calculation	1.12 lin. m.	according to calculation	14 un.	1.23 set
Module (B) 85 mm, gap (C) 55 mm							
A50/S, A85/S, A110/S, A160/S, A200/S	A_S*	A_S*30	A_S*	BT-19-85	BT-19-85	DV-55	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
11.76 lin. m.	according to calculation	13.18 un.	according to calculation	1.12 lin. m.	according to calculation	13.18 un.	1.23 set
Module (B) 90 mm, gap (C) 60 mm							
A50/S, A85/S, A110/S, A160/S, A200/S	A_S*	A_S*30	A_S*	BT-19-90	BT-19-90	DV-60	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
11.12 lin. m.	according to calculation	12.44 un.	according to calculation	1.12 lin. m.	according to calculation	12.44 un.	1.23 set
Module (B) 95 mm, gap (C) 65 mm							
A50/S, A85/S, A110/S, A160/S, A200/S	A_S*	A_S*30	A_S*	BT-19-95	BT-19-95	DV-65	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
10.53 lin. m.	according to calculation	11.79 un.	according to calculation	1.12 lin. m.	according to calculation	11.79 un.	1.23 set

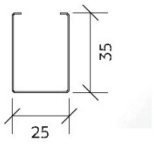
The system can be equipped with PL 19x24 or PLL angles, if no end plugs are used. Consumption per 1 m^2 is according to the design.

* A_S when ordering, specify the brand of the lath, for example, A50/S, instead of _.

A60S SYSTEM

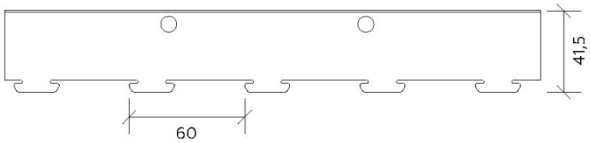
BRAND A25/35/S



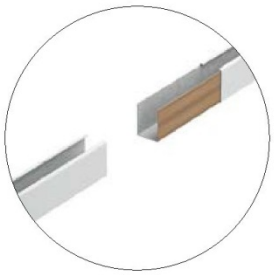


A - lath width
B - module
C - gap
H1 - height of lath with the rack

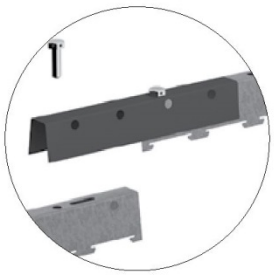
Rack BT 4-60

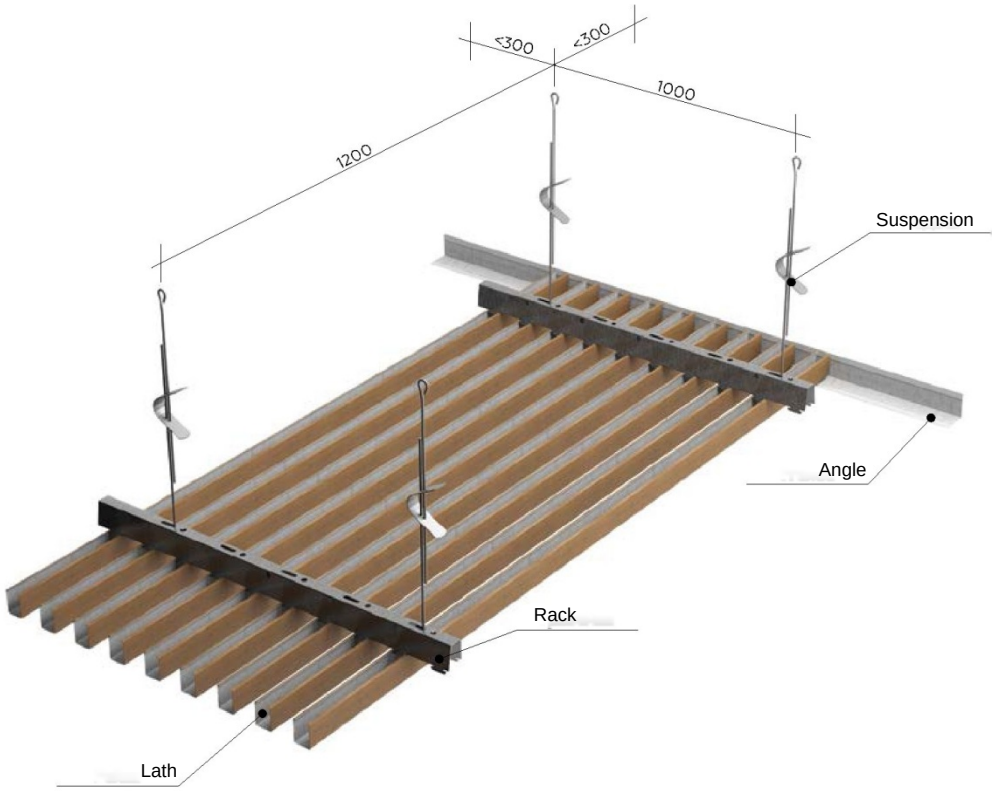


Connector for lath



Connector for rack





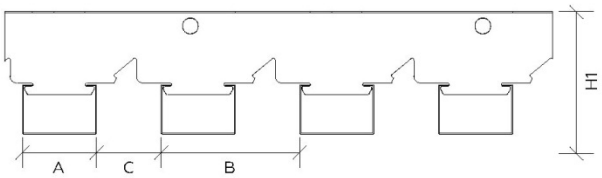
COMPLETE SET

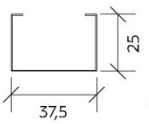
Lath	Lath connector, L=200	Rack	Connector for rack	Suspension
Module (B) 60 mm, gap (C) 35 mm				
A25/35/S	A25/35/S	BT-4-60	BT-4-60	AP, EURO, universal, nonius suspension.
Flow per 1m^2				
16,67 lin. m.	according to calculation	0.83 lin. m.	0.28 un.	0.83 set

The system can be equipped with PL 19x24 or PLL angles if larg ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

A70S SYSTEM

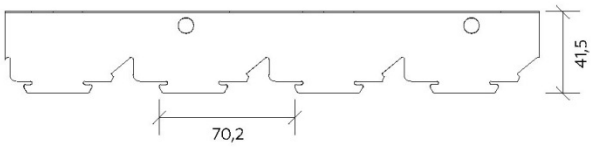
A25/S BRAND



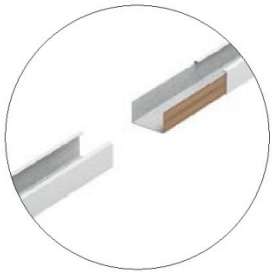


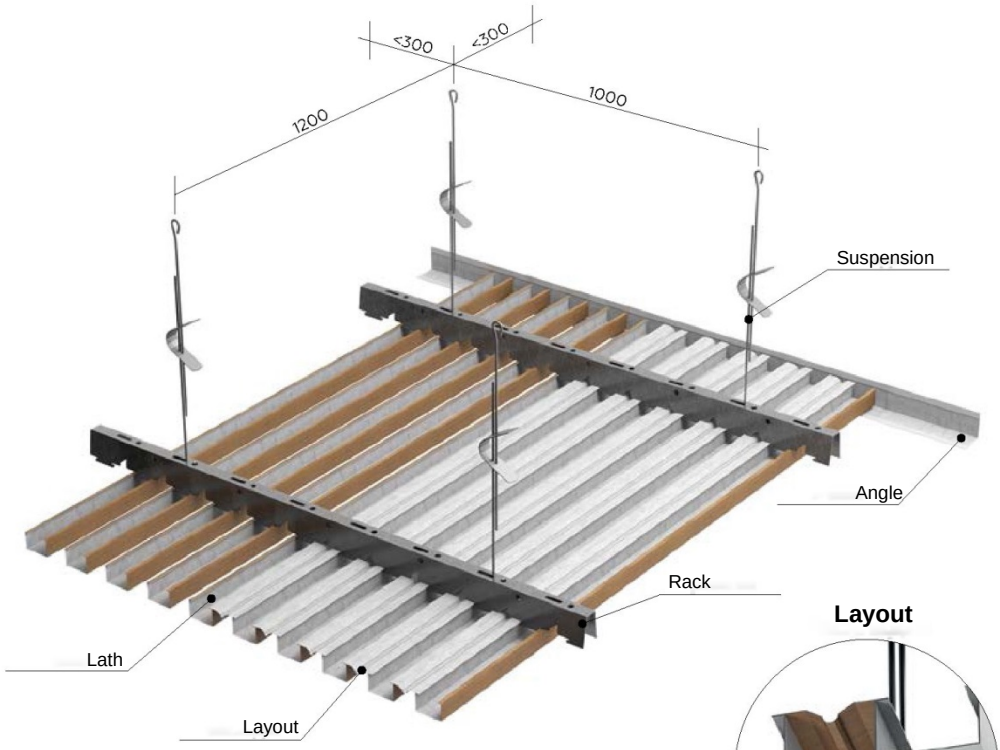
A - lath width
B - module
C - gap
H1 - height of lath with the rack

Rack BT 4-70

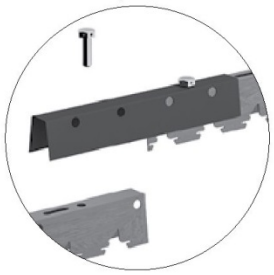


Connector for lath





Connector for rack



Layout

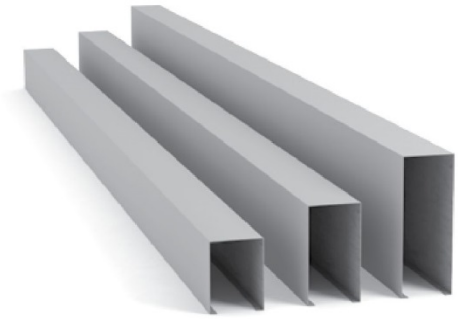
COMPLETE SET

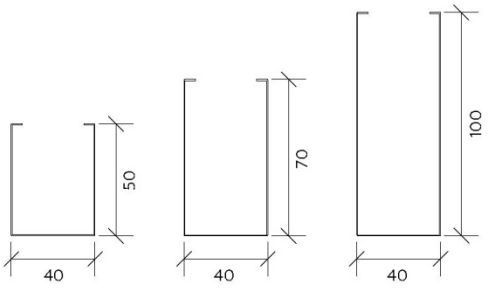
Lath	Lath connector, L=200	Rack	Connector for rack	Layout	Suspension
Module (B) 70.2 mm, gap (C) 32.7 mm					
A25/S	A25/S	BT-4-70	BT-4-70	AS B-70	AP, EURO, universal, nonius suspension.
Flow per 1m^2					
14.25 lin. m.	according to calculation	0.89 lin. m.	0.28 un.	14.25 lin. m.	0.83 set

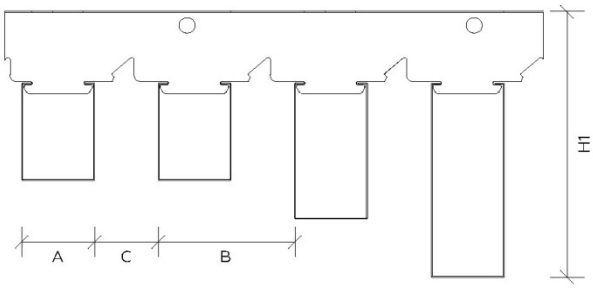
The system can be equipped with PL 19x24 or PLL angles if larg ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

A70S SYSTEM

BRANDS A40/50/S, A40/70/S, A40/100/S

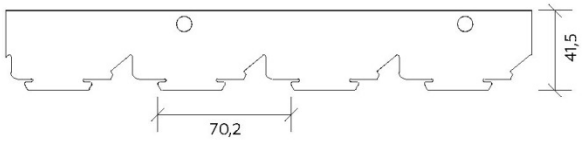


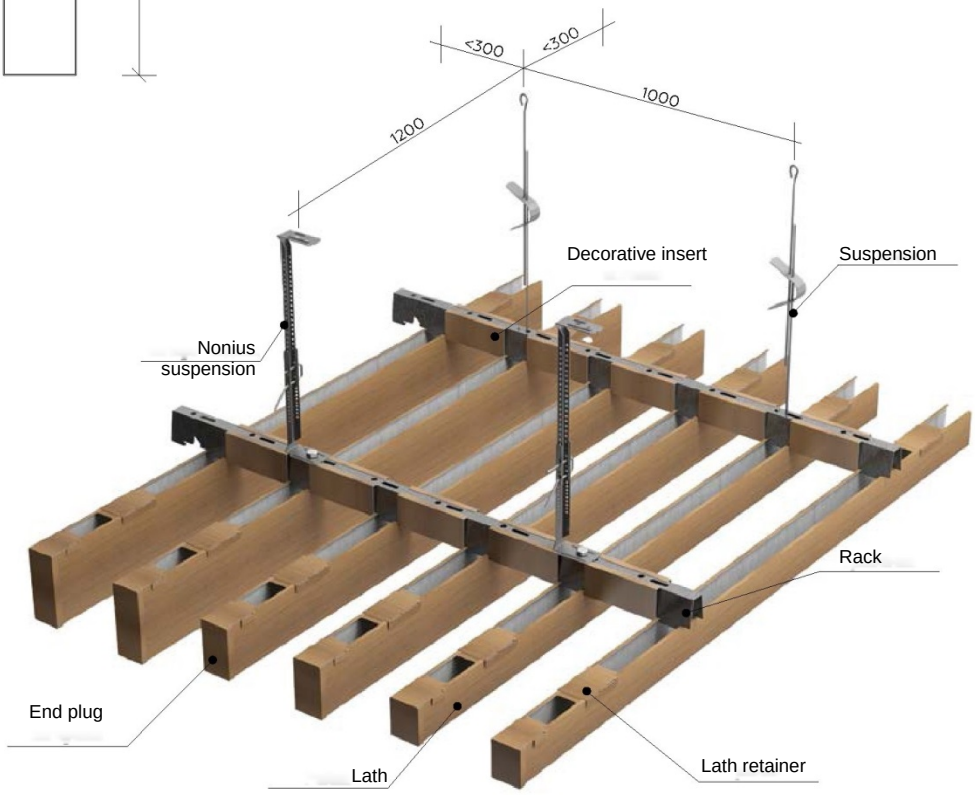




A - lath width
B - module
C - gap
H1 - height of lath with the rack

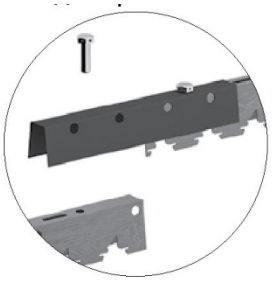
Rack BT 4-70





Lath retainer

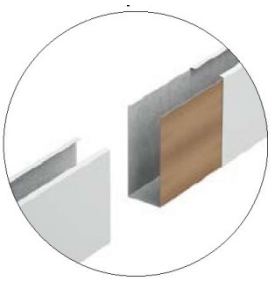
Rack connector



Decorative insert

End plug

Connector for lath



COMPLETE SET

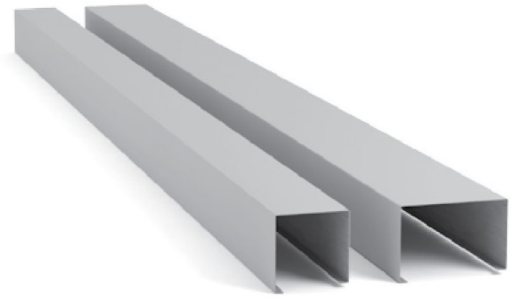
Lath	Lath connector, L=200	Lath retainer	End plug	Rack	Connector for rack	Decorative insert	Suspension
Module (B) 70.2 mm, gap (C) 32.7 mm							
A40/50/S	A_S*	—	A_S*	BT-4-70	BT-4-70	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
14.25 lin. m.	according to calculation	—	according to calculation	0.83 lin. m.	0.28 un.	—	1.23 set
Module (B) 140.4 mm, gap (C) 105.4 mm							
A40/70/S, A40/100/S	A_S*	A_S*40	A_S*	BT-4-70	BT-4-70	DV-102	AP, EURO, universal, nonius suspension.
Flow per 1m^2							
7.13 lin. m.	according to calculation	7.99 un.	according to calculation	1.12 lin. m.	0.28 un.	7.99 un.	1.23 set

The system can be equipped with PL 19x24 or PLL angles, if no end plugs are used. Consumption per 1 m^2 is according to the design.

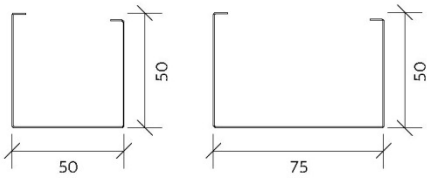
* A_S when ordering, specify the brand of the lath, for example, A40/50/S, instead of _.

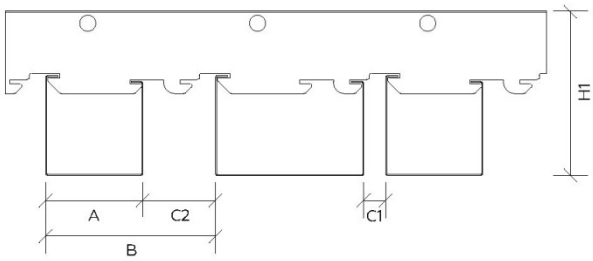
A95S SYSTEM

BRANDS A50/50/S, A75/50S

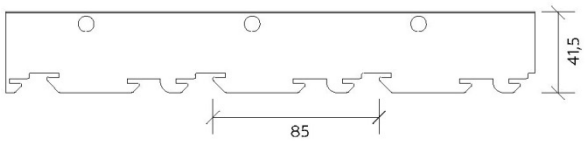


Rack BT 17

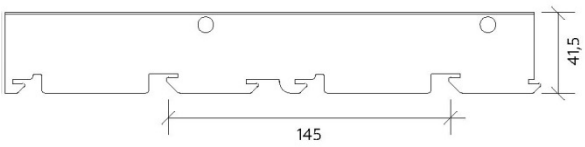




Minimum module - 85 mm



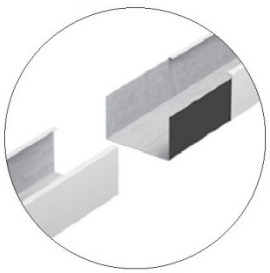
Maximum module - 145 mm



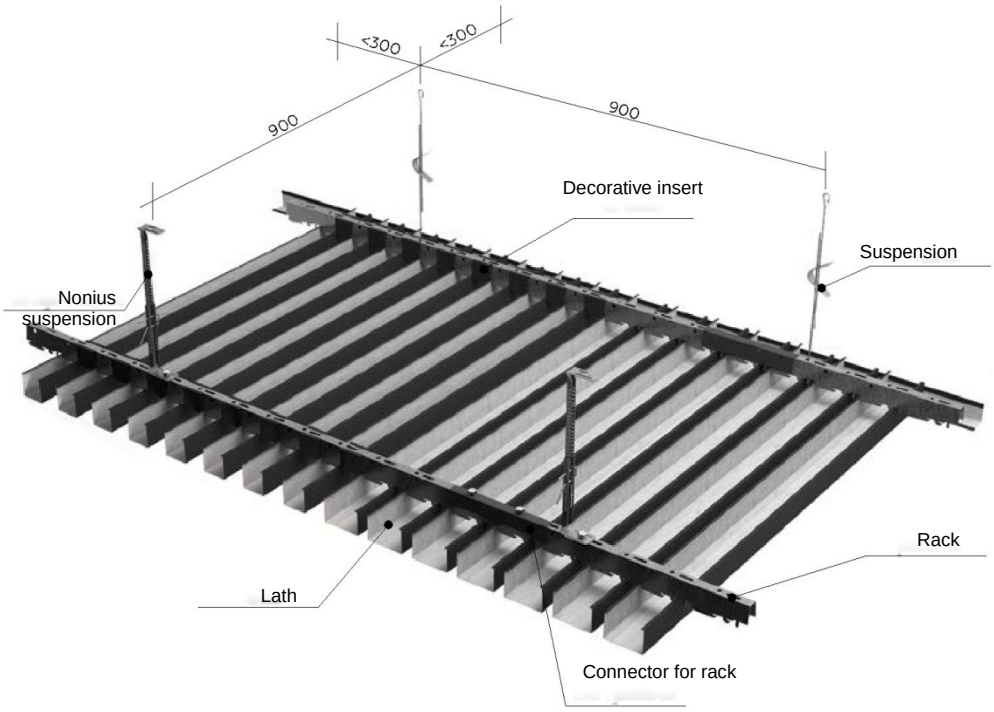
A - lath width
B - module
C1 -gap
C2 - gap
H1 - height of lath with the rack

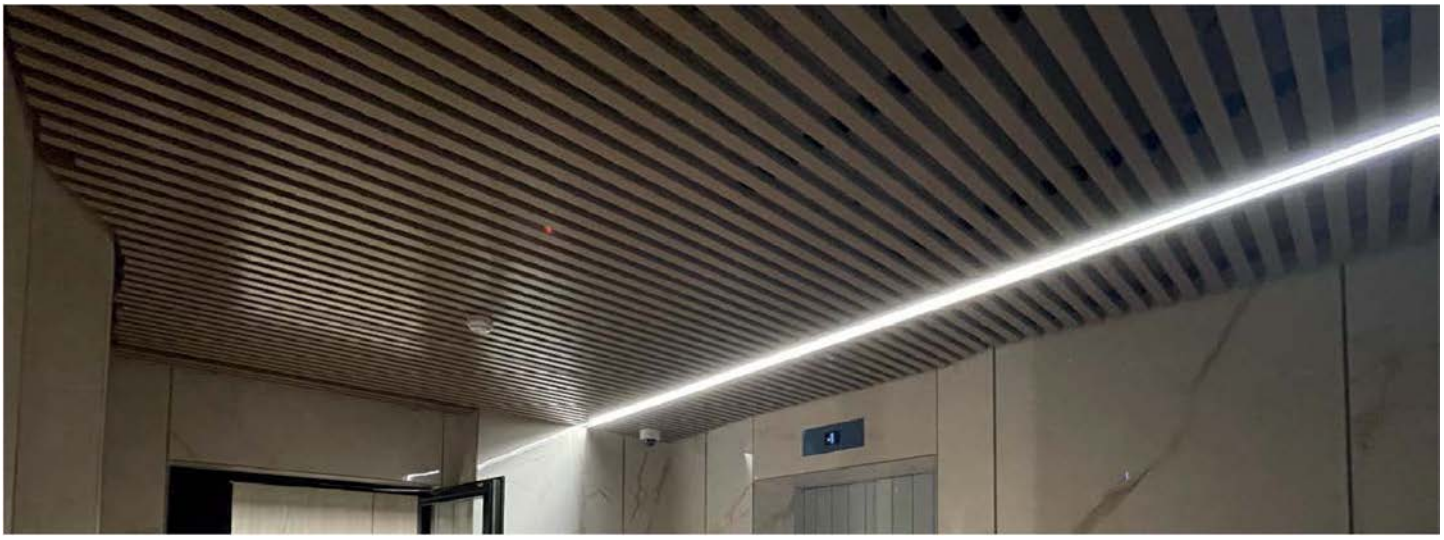
Decorative insert

Connector for lath



Rack connector





COMPLETE SET

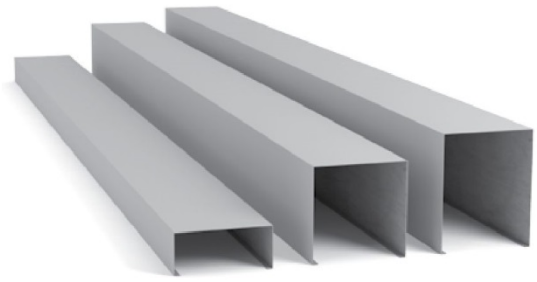
Lath	Lath connector, L=200	Rack	Connector for rack	Suspension
Module (B) 85 mm, gap (C1/C2) 10/35 mm				
A50/50/S, A75/50/S	A_S*	BT-17-85	BT-17-85	AP, EURO, universal, nonius suspension
Flow per 1m^2				
11.76 lin. m.	according to calculation	1.12 lin. m.	according to calculation	1.23 set
Module (B) 95 mm, gap (C1/C2) 20/45 mm				
A50/50/S, A75/50/S	A_S*	BT-17-95	BT-17-95	AP, EURO, universal, nonius suspension
Flow per 1m^2				
10.53 lin. m.	according to calculation	1.12 lin. m.	according to calculation	1.23 set
Module (B) 105 mm, gap (C1/C2) 30/55 mm				
A50/50/S, A75/50/S	A_S*	BT-17-105	BT-17-105	AP, EURO, universal, nonius suspension
Flow per 1m^2				
9.52 lin. m.	according to calculation	1.12 lin. m.	according to calculation	1.23 set
Module (B) 115 mm, gap (C1/C2) 65/40 mm				
A50/50/S, A75/50/S	A_S*	BT-17-115	BT-17-115	AP, EURO, universal, nonius suspension
Flow per 1m^2				
8.69 lin. m.	according to calculation	1.12 lin. m.	according to calculation	1.23 set
Module (B) 125 mm, gap (C1/C2) 50/75 mm				
A50/50/S, A75/50/S	A_S*	BT-17-125	BT-17-125	AP, EURO, universal, nonius suspension
Flow per 1m^2				
8 lin. m.	according to calculation	1.12 lin. m.	according to calculation	1.23 set
Module (B) 135 mm, gap (C1/C2) 60/85 mm				
A50/50/S, A75/50/S	A_S*	BT-17-135	BT-17-135	AP, EURO, universal, nonius suspension
Flow per 1m^2				
7.4 lin. m.	according to calculation	1.12 lin. m.	according to calculation	1.23 set
Module (B) 145 mm, gap (C1/C2) 70/95 mm				
A50/50/S, A75/50/S	A_S*	BT-17-145	BT-17-145	AP, EURO, universal, nonius suspension
Flow per 1m^2				
6.89 lin. m.	according to calculation	1.12 lin. m.	according to calculation	1.23 set

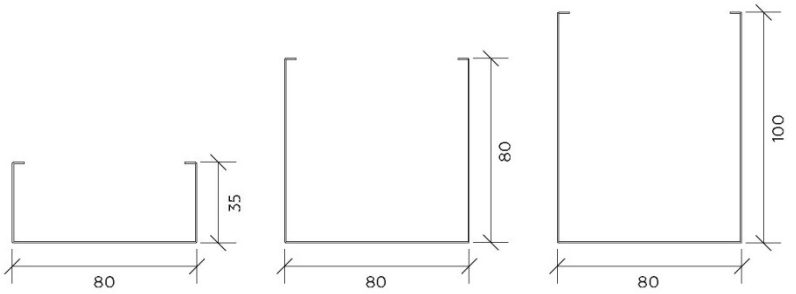
The system can be equipped with PL 19x24 or PLL angles, if no end plugs are used. Consumption per 1 m^2 is according to the design.

* A_S when ordering, specify the brand of the lath, for example, A40/50/S, instead of _.

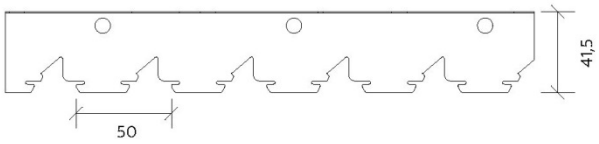
A100S SYSTEM

BRANDS A80/35/S, A80/80S, A80/100S

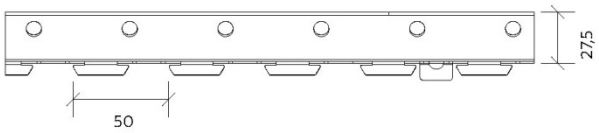


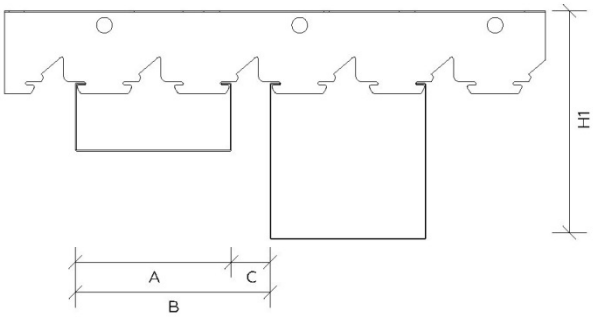


Rack BT 4-50



Rack BT 12-50





A - lath width
B - module
C - gap
H1 - height of lath with the rack

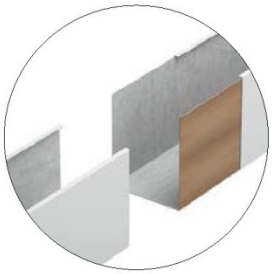
COMPLETE SET

Lath	Lath connector, L=200	Lath retainer	End plug	Rack	Rack connector	Decorative insert	Layout	Suspension
Module (B) 100 mm, gap (C) 20 mm								
A80/35/S	A_S*	A_S*80	A_S*	BT-4-50 BT-12-50	BT-4-50 BT-12-50	—	ASB-50 ASM-50	AP, EURO, universal, nonius suspension
A80/80/S, A80/100/S							—	
Flow per 1m^2								
10 lin. m.	according to calculation	11.2 un.	according to calculation	1.12 lin. m.	0.28 un.	—	10 lin. m.	1.23 set
Module (B) 150 mm, gap (C) 70 mm								
A80/35/S, A80/80/S, A80/100/S	A_S*	A_S*80	A_S*	BT-4-50 BT-12-50	BT-4-50 BT-12-50	DV 70	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2								
6,67 lin. m.	according to calculation	7.5 un.	according to calculation	1.12 lin. m.	0.28 un.	7.4 un.	—	1.23 set
Module (B) 200 mm, gap (C) 120 mm								
A80/35/S, A80/80/S, A80/100/S	A_S*	A_S*80	A_S*	BT-4-50 BT-12-50	BT-4-50 BT-12-50	DV 120	—	AP, EURO, universal, nonius suspension.
Flow per 1m^2								
5 lin. m.	according to calculation	5.6 un.	according to calculation	1.12 lin. m.	0.28 un.	5.6 un.	—	1.23 set

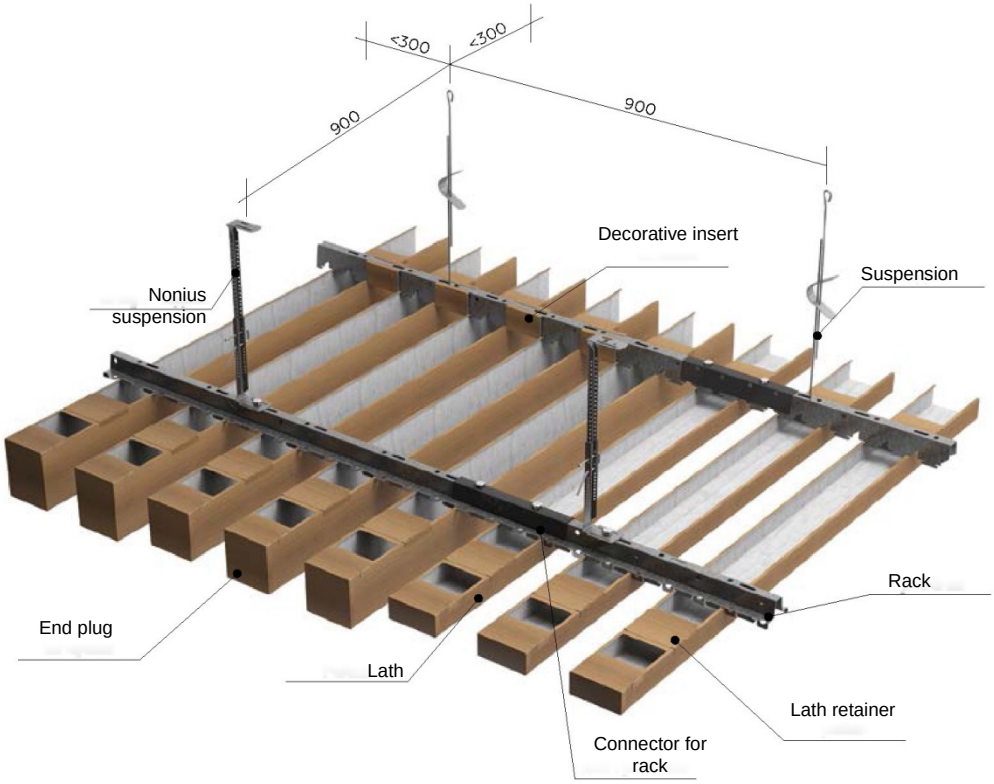
The system can be equipped with PL 19x24 or PLL angles, if no end plugs are used. Consumption per 1 m^2 is according to the design.

* A_S when ordering, specify the brand of the lath, for example, A40/50/S, instead of _.

Connector for lath



Lath retainer



Rack connector

Decorative insert

Layout*

End plug

* Only for lath A80/35/S

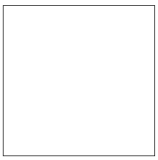
V-SHAPE DESIGN

TECHNICAL CHARACTERISTICS

	H	A	H1	Rack length, m	Material and thickness, mm		
Rack brand	Rack height, mm	Rack width, mm	Total height, H1		AL	Galvanized steel	PVA
A40/V(50)	39	45	76.5	3 or 4, customized up to 6	0.3 - 0.4	–	–
A40/V(70)	39.5	52	76.5	3 or 4, customized up to 6	0.3 - 0.4	–	–
A90/V	90	30	126.5	3 or 4	0.4 - 0.78	0.5 - 0.7	–

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

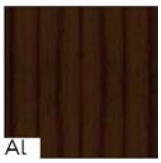
Metallic

Metallic matted

Super gold

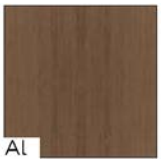
Super chrome

Wood grain



Dark wood

Light wood



Grain W203-1013

Grain W212-1214

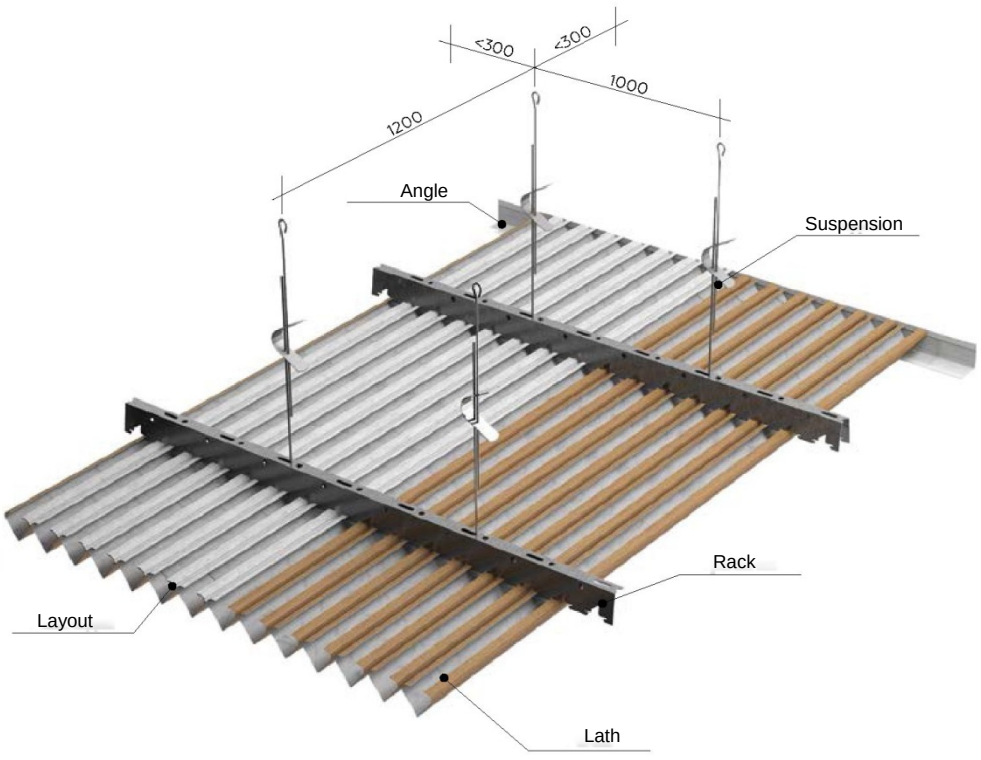
RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

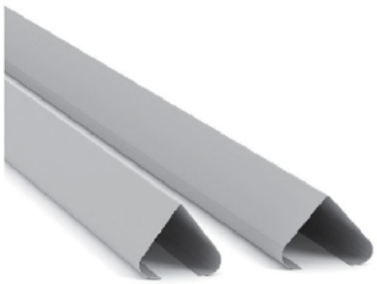
Perforation Ø = 1.5 mm is possible For perforation pattern refer to page page 121

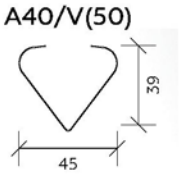
Lath connector

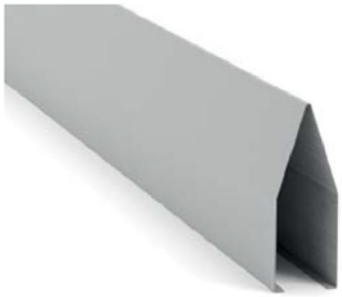
Layout

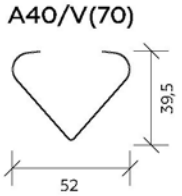


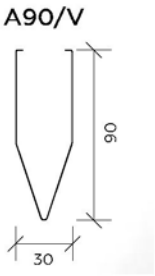
V-SHAPE DESIGN

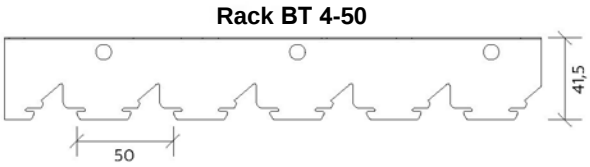


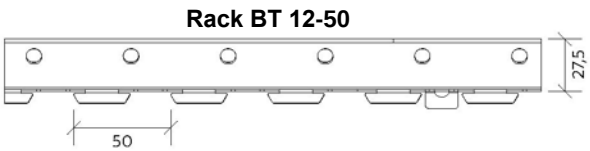


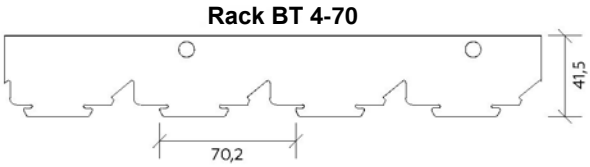


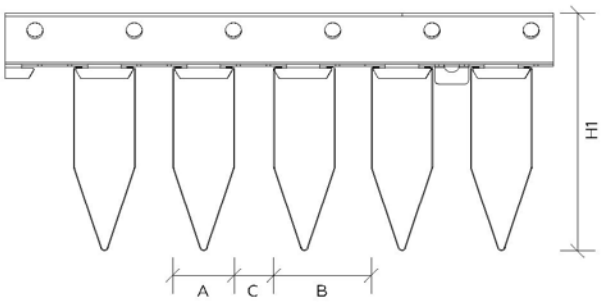


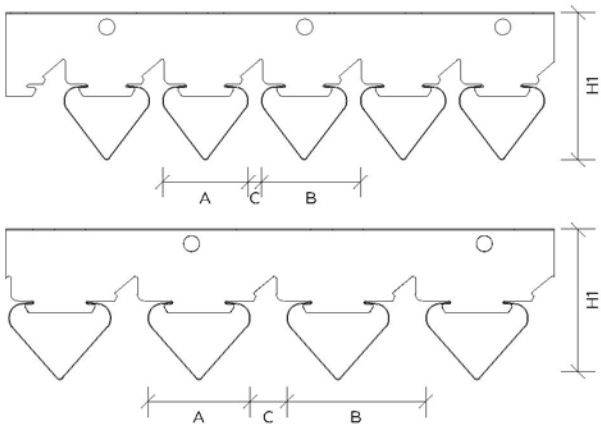












A - lath width
B - module
C - gap
H1 - height of lath with the rack

COMPLETE SET

Lath	Lath connector, L=200	Rack	Layout	Suspension
Module (B) 50 mm, gap (C) 5 mm				
A40/V(50)	A40/V(50)	BT-4-50	ASB-50	AP, EURO, universal, nonius suspension
Flow per 1m^2				
20 lin. m.	according to calculation	0.89 lin. m.	20 lin. m.	0.83 set
Module (B) 70 mm, gap (C) 18 mm				
A40/V(70)	A40/V(70)	BT-4-70	AS B-70	AP, EURO, universal, nonius suspension
Flow per 1m^2				
14.25 lin. m.	according to calculation	0.89 lin. m.	14.25 lin. m.	0.83 set
Module (B) 50 mm, gap (C) 20 mm				
A90/V	A90/V	BT-4-50 BT-12-50	–	AP, EURO, universal, nonius suspension
Flow per 1m^2				
20 lin. m.	according to calculation	0.89 lin. m.	–	0.83 set

The system can be equipped with PL 19x24 or PLL angles if larg ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

PLATE-SHAPE DESIGN

NOTE

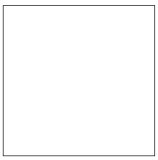
THis lath type is not designed for end-to-end assembly. Assembly is made either with a gap between laths or checkerwise.

TECHNICAL CHARACTERISTICS

	H	A	H1	Rack length, m	Material and thickness, mm		
Rack brand	Rack height, mm	Rack width, mm	Total height, H1		AL	Galvanized steel	PVA
A91/SP	91	16.5	114	3 or 4, customized up to 6	0.3 - 0.4	–	–

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

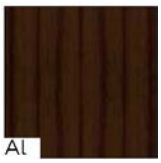
Metallic

Metallic matted

Super gold

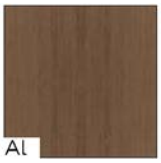
Super chrome

Wood grain



Dark wood

Light wood



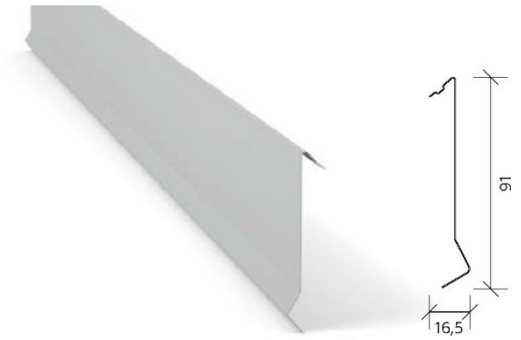
Grain W203-1013

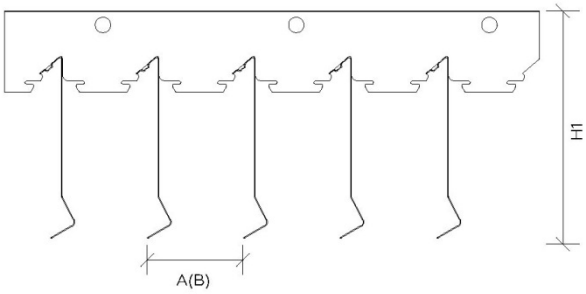
Grain W212-1214

RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

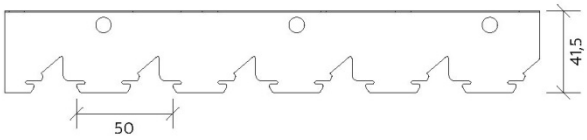
PLATE-SHAPE DESIGN



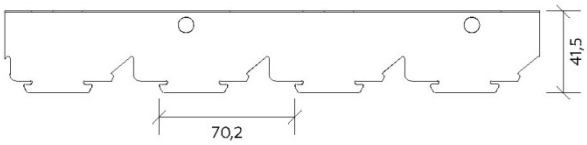


A - lath width
B - module
H1 - height of lath with the rack

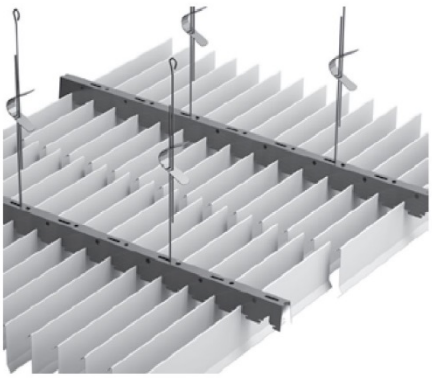
Rack BT 4-50

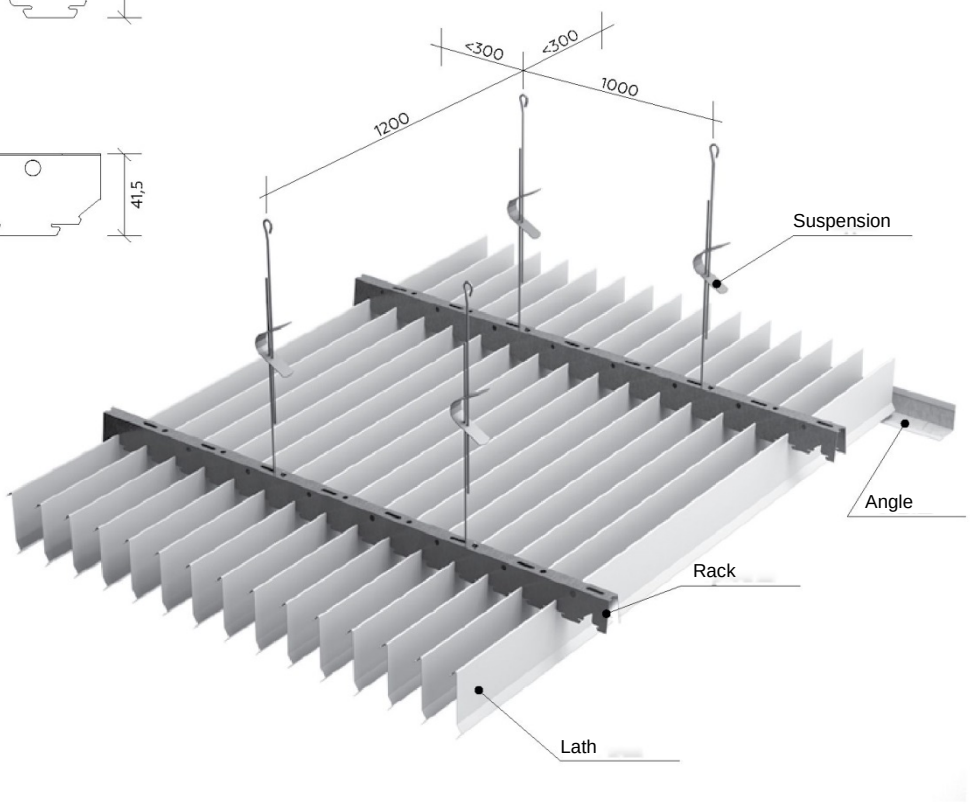


Rack BT 4-70



Checkerwise assembly





COMPLETE SET

Lath	Rack	Suspension
Module (B) 50 mm		
A91/SP	BT-4-50	AP, EURO, universal, nonius suspension
Flow per 1m^2		
20 lin. m.	0.89 lin. m.	0.83 set
Module (B) 70.2 mm		
A91/SP	BT-4-70	AP, EURO, universal, nonius suspension
Flow per 1m^2		
14.25 lin. m.	0.89 lin. m.	0.83 set

The system can be equipped with PL 19x24 or PLL angles if larg ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

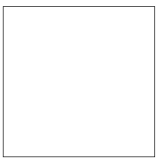
RECTANGULAR DESIGN

TECHNICAL CHARACTERISTICS

	H	A	H1	Rack length, m	Material and thickness, mm		
Rack brand	Rack height, mm	Rack width, mm	Total height, H1		AL	Galvanized steel	PVA
A30/SV	14	30	51	3 or 4, customized up to 6	0.3 - 0.4	-	-
A80/SV	14	80	51	3 or 4, customized up to 6	0.3 - 0.4	0.3 - 0.5	-
A130/SV	14	130	51	3 or 4, customized up to 6	0.3 - 0.4	0.3 - 0.5	-
A180/SV	14	180	51	3 or 4, customized up to 6	0.4 - 0.58	0.3 - 0.5	-

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

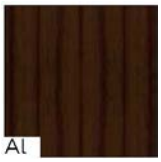
Metallic

Metallic matted

Super gold

Super chrome

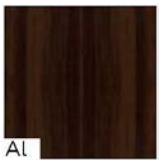
Wood grain



Dark wood

Light wood

Grain
W203-1013



Grain
W212-1214

RAL pallete

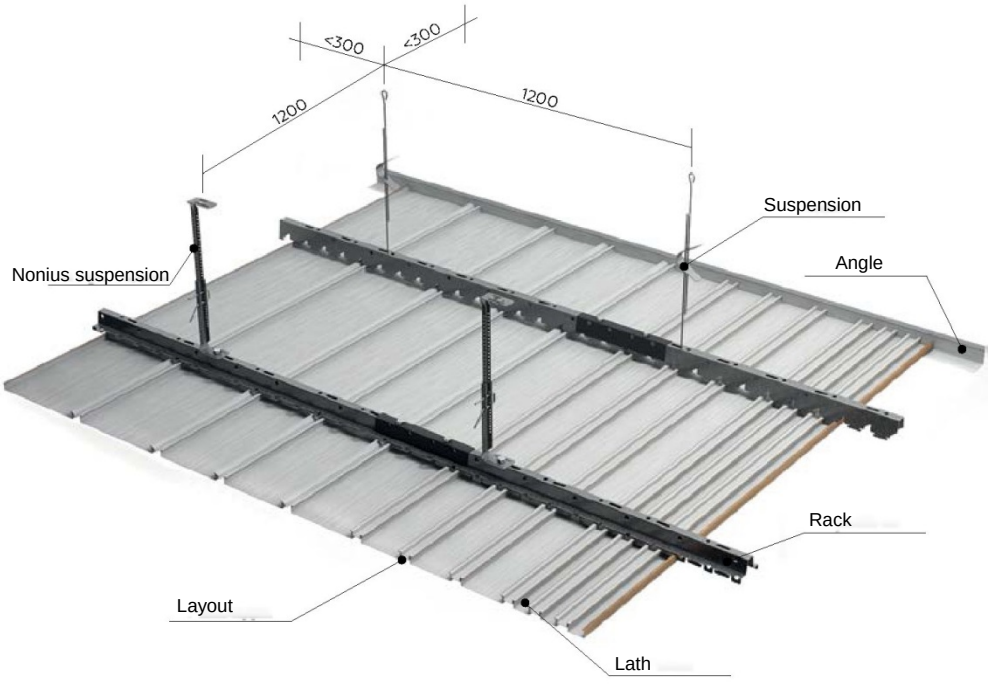
* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

Perforation Ø = 1.5 mm is possible

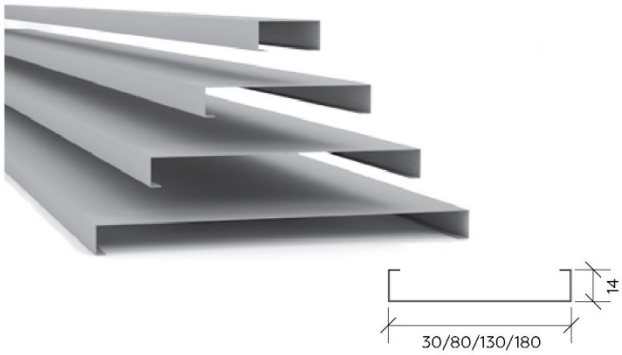
For perforation pattern refer to page page 121

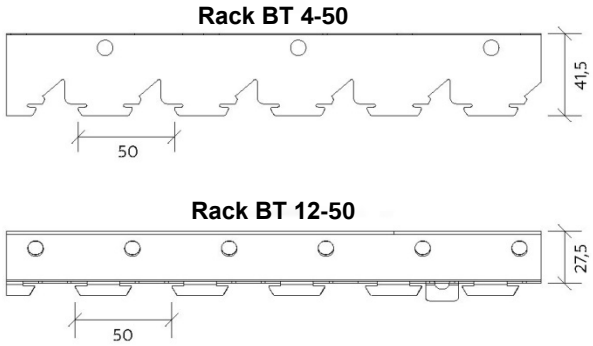
Connector for lath

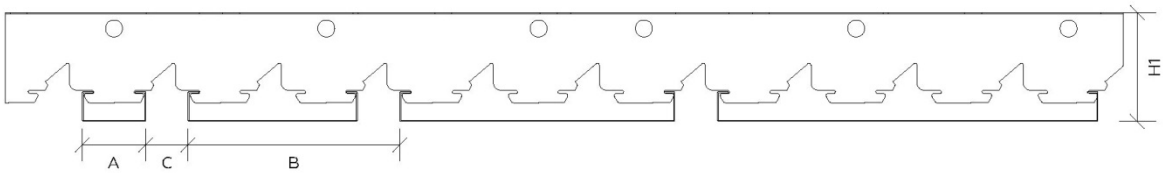
Layout



RECTANGULAR DESIGN







A - lath width
B - module
C - gap
H1 - height of lath with the rack

COMPLETE SET

Lath	Lath connector, L=200	Rack	Layout	Suspension
Module (B) 50 mm, gap (C) 20 mm				
A30/SV	A30/SV	BT-4-50 BT-12-50	ASB-50 ASM-50	AP, EURO, universal, nonius suspension.
Flow per 1m^2				
20 lin. m.	according to calculation	0.89 lin. m.	20 lin. m.	0.83 set
Module (B) 100 mm, gap (C) 20 mm				
A80/SV	A80/SV	BT-4-50 BT-12-50	ASB-50 ASM-50	AP, EURO, universal, nonius suspension.
Flow per 1m^2				
10 lin. m.	according to calculation	0.89 lin. m.	10 lin. m.	0.83 set
Module (B) 150 mm, gap (C) 20 mm				
A130/SV	A130/SV	BT-4-50 BT-12-50	ASB-50 ASM-50	AP, EURO, universal, nonius suspension.
Flow per 1m^2				
6,67 lin. m.	according to calculation	0.89 lin. m.	6,67 lin. m.	0.83 set
Module (B) 200 mm, gap (C) 20 mm				
A180/SV	A180/SV	BT-4-50 BT-12-50	ASB-50 ASM-50	AP, EURO, universal, nonius suspension.
Flow per 1m^2				
5 lin. m.	according to calculation	0.89 lin. m.	5 lin. m.	0.83 set

The system can be equipped with PL 19x24 or PLL angles if larg ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

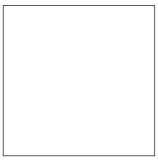
ITALIAN DESIGN WITH OPEN JOINTS

TECHNICAL CHARACTERISTICS

	H	A	H1	Rack length, m	Material and thickness, mm		
Rack brand	Rack height, mm	Rack width, mm	Total height, H1		AL	Galvanized steel	PVA
A84/A	16	84	42	3 or 4, customized up to 6	0.4 - 0.58	-	+
A84/A	16	84	42	3 or 4, customized up to 6	0.4 - 0.58	-	+

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

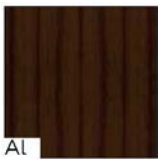
Metallic

Metallic matted

Super gold

Super chrome

Wood grain



Dark wood

Light wood

Grain W203-1013

Grain W212-1214

RAL pallete

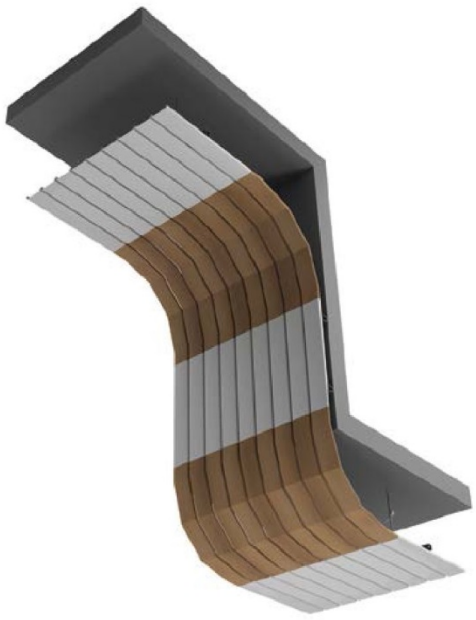
* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

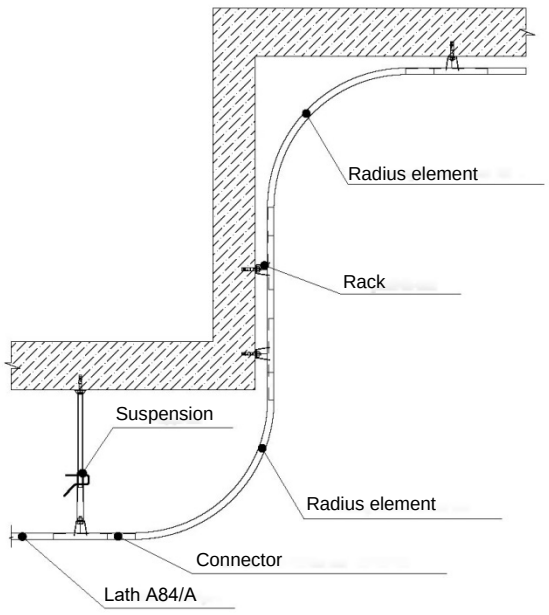
Perforation Ø = 1.5 mm is possible For perforation pattern refer to page page 121

RADIUS ELEMENT

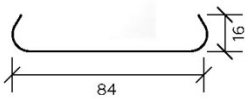
Ceiling radius elements allow you to shift between the height differences in the ceiling, to frame the protruding engineering communications.

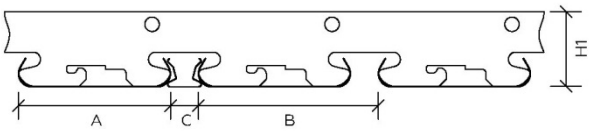
The curved shape of the ceiling can be obtained using bent (in the factory) lath panels of Italian design of open type A84/A (radius of curvature 300 mm, segment length - 670 mm). The element may have a convex or concave shape.





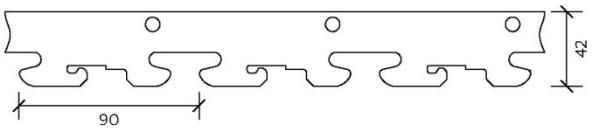
ITALIAN DESIGN WITH OPEN JOINTS



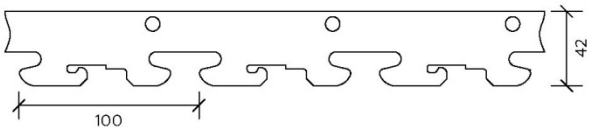


A - lath width
B - module
C - gap
H1 - height of lath with the rack

Rack BT 3-100

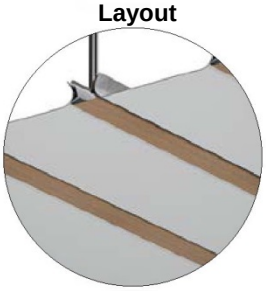


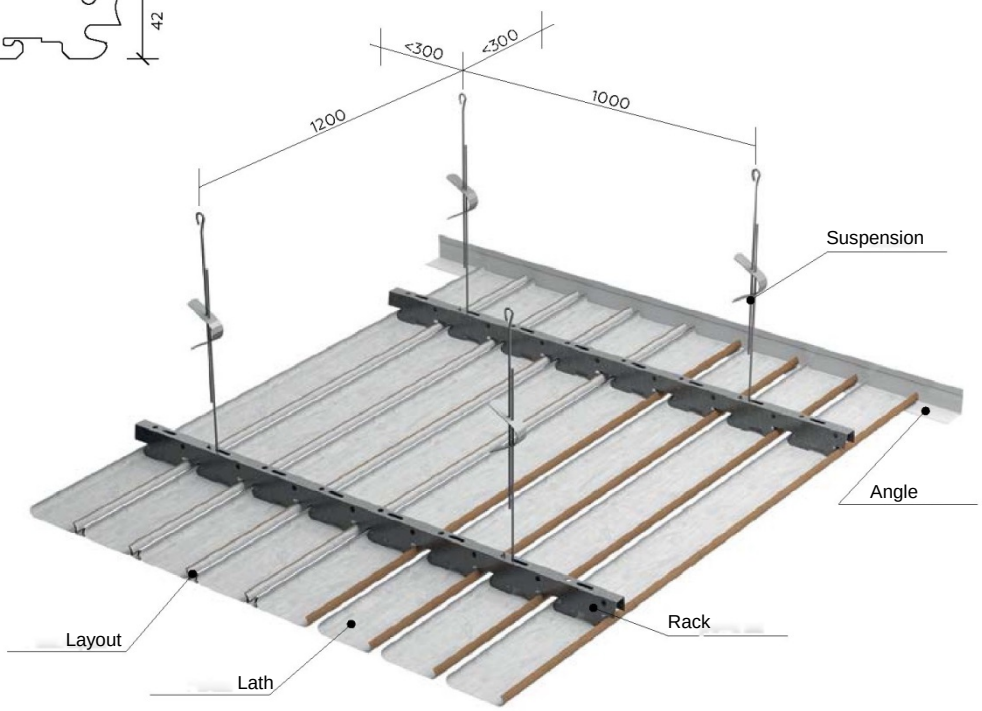
Rack BT 3-90



Lath connector

Layout





COMPLETE SET

Lath	Lath connector, L=200	Rack	Layout	Suspension
Module (B) 90 mm, gap (C) 6 mm				
A84/A	A84/A	BT-3-90	-	AP
Flow per 1m^2				
11.11 lin. m.	according to calculation	0.89 lin. m.	—	0.83 set
Module (B) 100 mm, gap (C) 16 mm				
A84/A	A84/A	BT-3-100	AS	AP
Flow per 1m^2				
10 lin. m.	according to calculation	0.89 lin. m.	10 lin. m.	0.83 set

The system can be equipped with PL 19x24 or PLL angles if larg ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

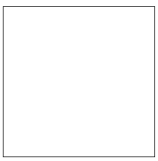
ITALIAN DESIGN WITH CLOSED JOINTS

TECHNICAL CHARACTERISTICS

	H	A	H1	Rack length, m	Material and thickness, mm		
Rack brand	Rack height, mm	Rack width, mm	Total height, H1		AL	Galvanized steel	PVA
A84/AC	16	84	42	3 or 4, customized up to 6	0.4 - 0.58	–	–

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

Metallic

Metallic matted

Super gold

Super chrome

Wood grain

Dark wood

Light wood

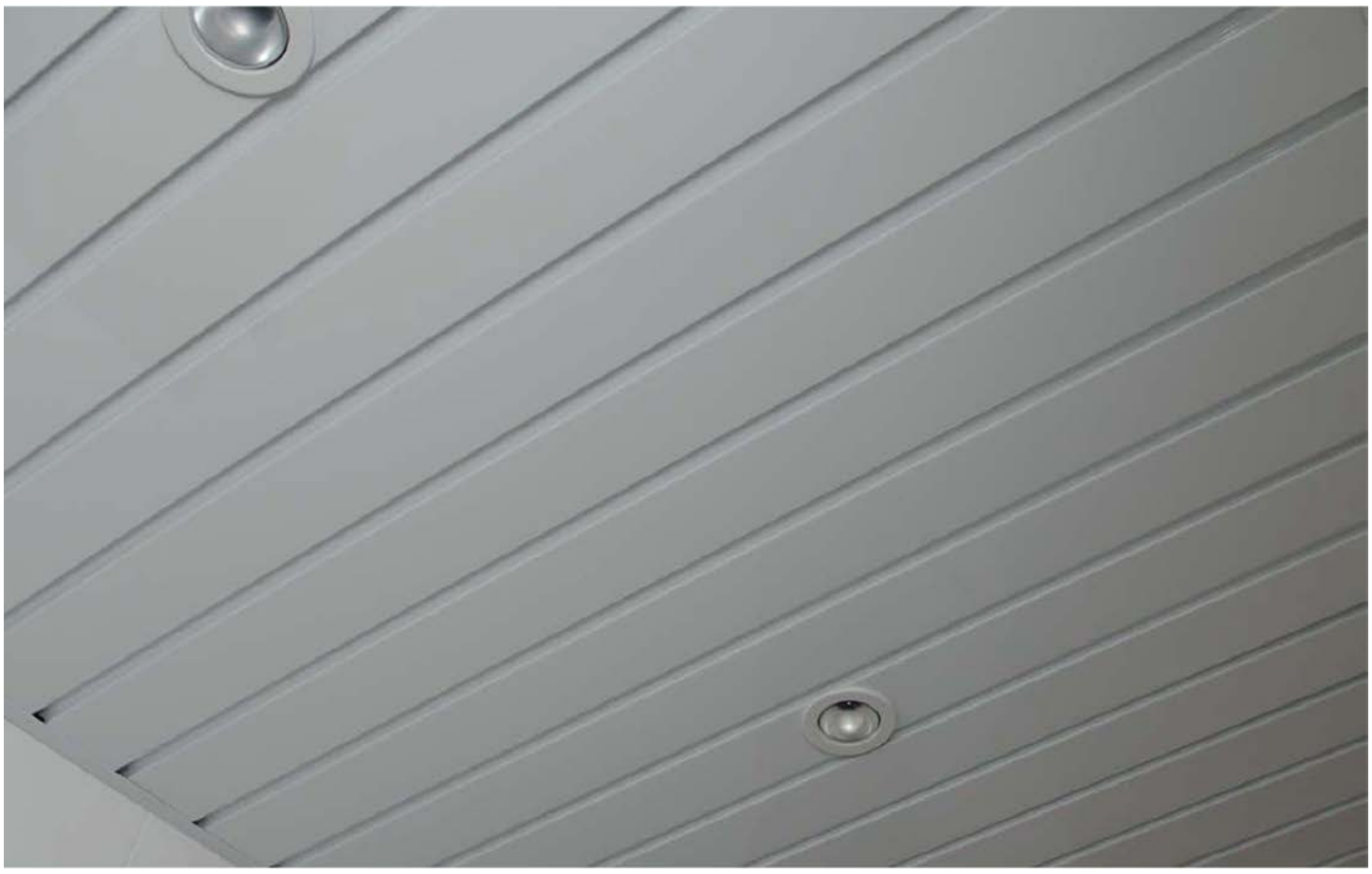
Grain W203-1013

Grain W212-1214

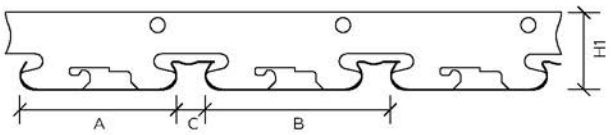
RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

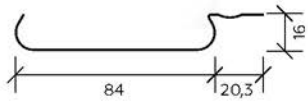
Perforation Ø = 1.5 mm is possible For perforation pattern refer to page page 121



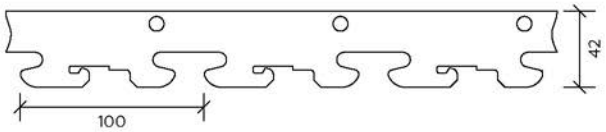
ITALIAN DESIGN WITH CLOSED JOINTS



A - lath width
B - module
C - gap
H1 - height of lath with the rack

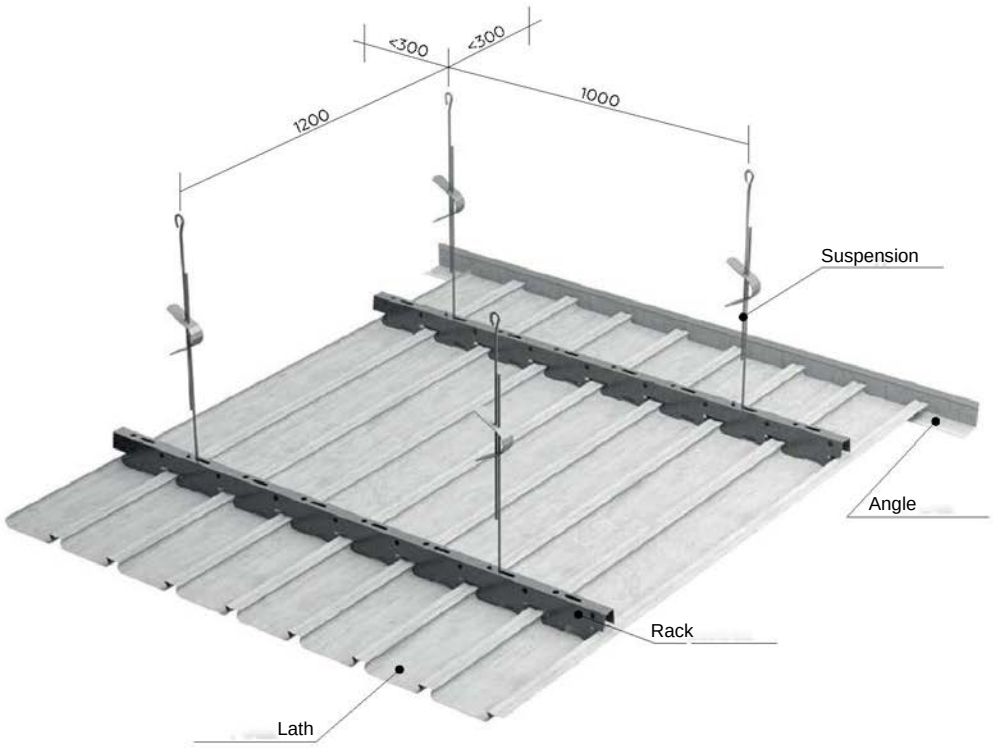


Rack BT 3-100



Closed joint

Lath connector



COMPLETE SET

Lath	Lath connector, L=200	Rack	Suspension
Module (B) 100 mm, gap (C) 16 mm			
A84/AC	A84/AC	BT-3-100	AP
Flow per 1m^2			
10 lin. m.	according to calculation	0.89 lin. m.	0.83 set

The system can be equipped with PL 19x24 or RPP-21 angles if lath ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

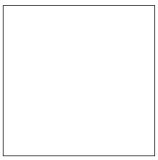
GERMAN DESIGN WITH OPEN JOINTS

TECHNICAL CHARACTERISTICS

	H	A	H1	Rack length, m	Material and thickness, mm		
Rack brand	Rack height, mm	Rack width, mm	Total height, H1		AL	Galvanized steel	PVA
AN85/A	12.5	85	37.5	3 or 4, customized up to 6	0.3 - 0.58	–	–
AN135/A	12.5	135	37.5	3 or 4, customized up to 6	0.3 - 0.58	–	–
AN185/A	12.5	185	37.5	3 or 4, customized up to 6	0.46 - 0.58	–	–

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

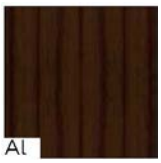
Metallic

Metallic matted

Super gold

Super chrome

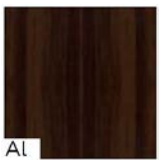
Wood grain



Dark wood

Light wood

Grain W203-1013



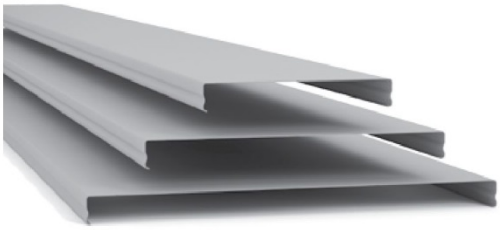
Grain W212-1214

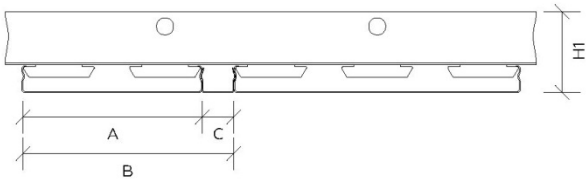
RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

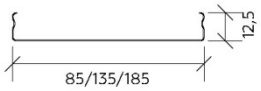
Perforation Ø = 1.5 mm is possible For perforation pattern refer to page page 121

GERMAN DESIGN WITH OPEN JOINTS

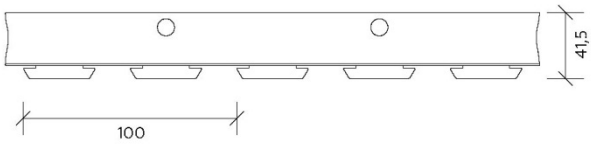




A - lath width
B - module
C - gap
H1 - height of lath with the rack

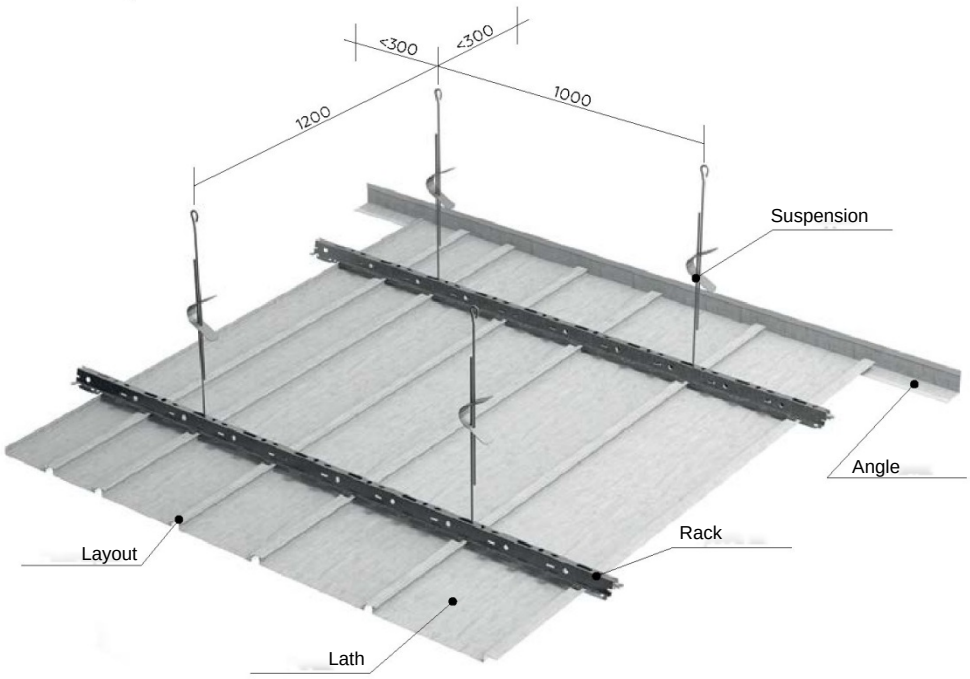


BTN rack



Lath connector

Layout



COMPLETE SET

Lath	Lath connector, L=200	Rack	Layout	Suspension
Module (B) 100 mm, gap (C) 15 mm				
AN85/A	AN85/A	BTN	ASN	AP
Flow per 1m^2				
10 lin. m.	according to calculation	0.89 lin. m.	10 lin. m.	0.83 set
Module (B) 150 mm, gap (C) 15 mm				
AN135/A	AN135/A	BTN	ASN	AP
Flow per 1m^2				
6,67 lin. m.	according to calculation	0.89 lin. m.	6,67 lin. m.	0.83 set
Module (B) 200 mm, gap (C) 15 mm				
AN185/A	AN185/A	BTN	ASN	AP
Flow per 1m^2				
5 lin. m.	according to calculation	0.89 lin. m.	5 lin. m.	0.83 set

The system can be equipped with PL 19x24, PLL or RPP-18 angles if lath ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

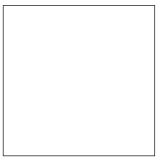
GERMAN DESIGN WITH CLOSED JOINTS

TECHNICAL CHARACTERISTICS

	H	A	H1	Rack length, m	Material and thickness, mm		
Rack brand	Rack height, mm	Rack width, mm	Total height, H1		AL	Galvanized steel	PVA
AN85/AC	12.5	85	37.5	3 or 4, customized up to 6	0.3 - 0.58	–	–
AN135/AC	12.5	135	37.5	3 or 4, customized up to 6	0.3 - 0.58	–	–
AN185/AC	12.5	185	37.5	3 or 4, customized up to 6	0.46 - 0.58	–	–

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

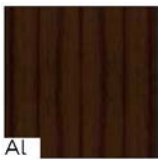
Metallic

Metallic matted

Super gold

Super chrome

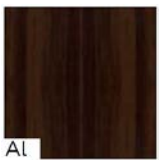
Wood grain



Dark wood

Light wood

Grain W203-1013



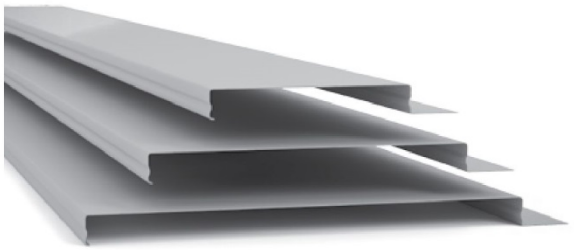
Grain W212-1214

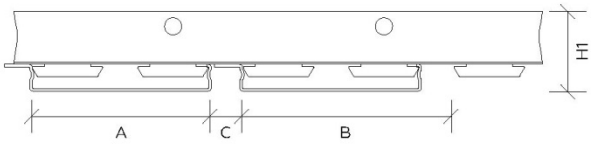
RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

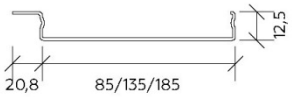
Perforation Ø = 1.5 mm is possible For perforation pattern refer to page page 121

GERMAN DESIGN WITH CLOSED JOINTS

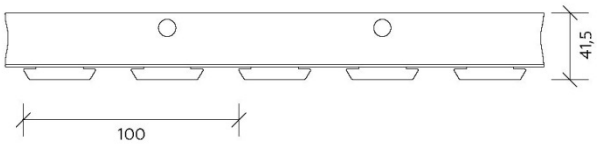




A - lath width
B - module
C - gap
H1 - height of lath with the rack

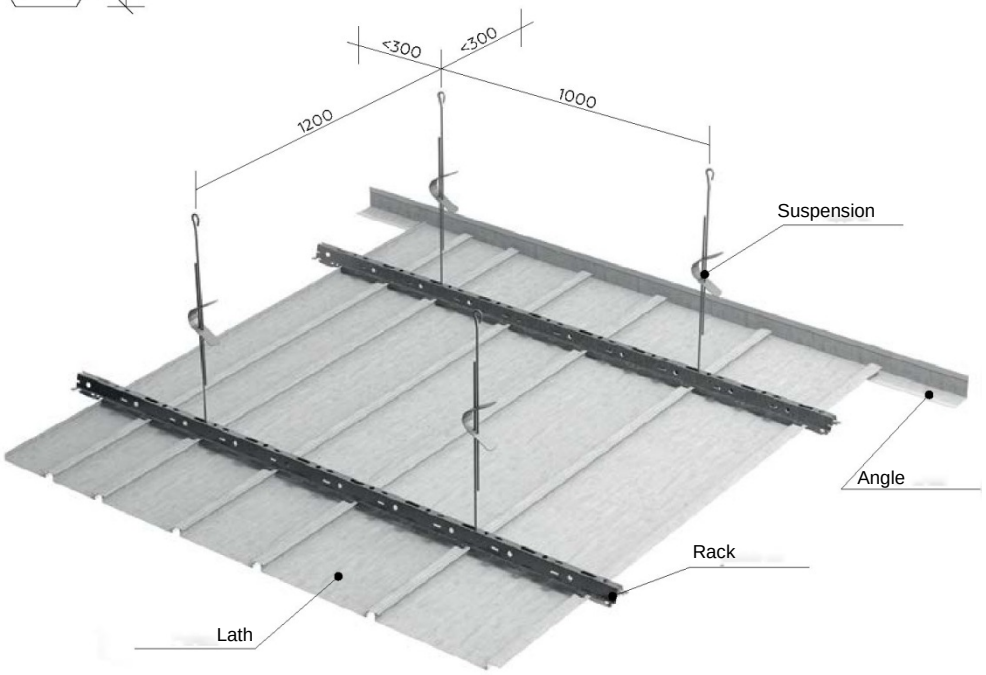


BTN rack



Lath closed joint

Layout



COMPLETE SET

Lath	Lath connector, L=200	Rack	Suspension
Module (B) 100 mm, gap (C) 15 mm			
AN85/AC	AN85/AC	BTN	AP
Flow per 1m^2			
10 lin. m.	according to calculation	0.89 lin. m.	0.83 set
Module (B) 150 mm, gap (C) 15 mm			
AN135/AC	AN135/AC	BTN	AP
Flow per 1m^2			
6,67 lin. m.	according to calculation	0.89 lin. m.	0.83 set
Module (B) 200 mm, gap (C) 15 mm			
AN185/AC	AN185/AC	BTN	AP
Flow per 1m^2			
5 lin. m.	according to calculation	0.89 lin. m.	0.83 set

The system can be equipped with PL 19x24, PLL or RPP-18 angles if lath ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

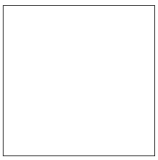
OMEGA DESIGN

TECHNICAL CHARACTERISTICS

	H	A	H1	Rack length, m	Material and thickness, mm		
Rack brand	Rack height, mm	Rack width, mm	Total height, H1		AL	Galvanized steel	PVA
A50/AT	12.5	50	45	3 or 4, customized up to 6	0.3 - 0.58	—	—
A100/AT	12.5	100	45	3 or 4, customized up to 6	0.3 - 0.58	—	—
A150/AT	12.5	150	45	3 or 4, customized up to 6	0.46 - 0.58	—	—

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

Metallic

Metallic matted

Super gold

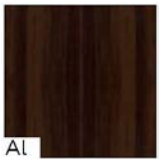
Super chrome

Wood grain

Dark wood

Light wood

Grain W203-1013



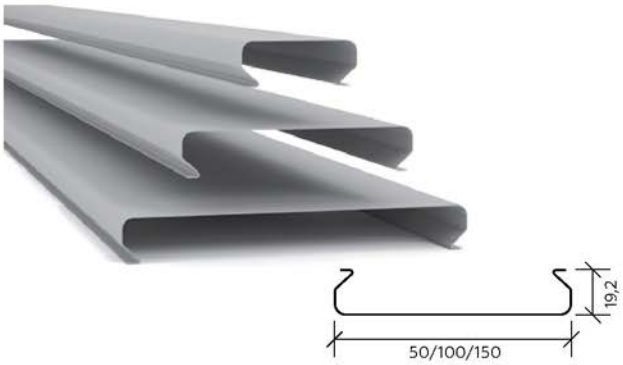
Grain W212-1214

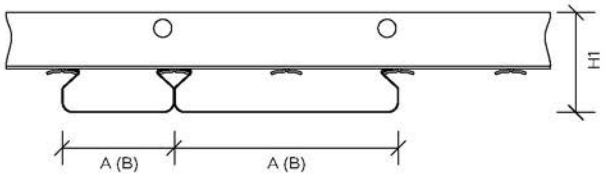
RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

Perforation Ø = 1.5 mm is possible For perforation pattern refer to page page 121

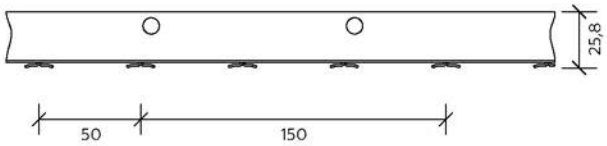
OMEGA DESIGN





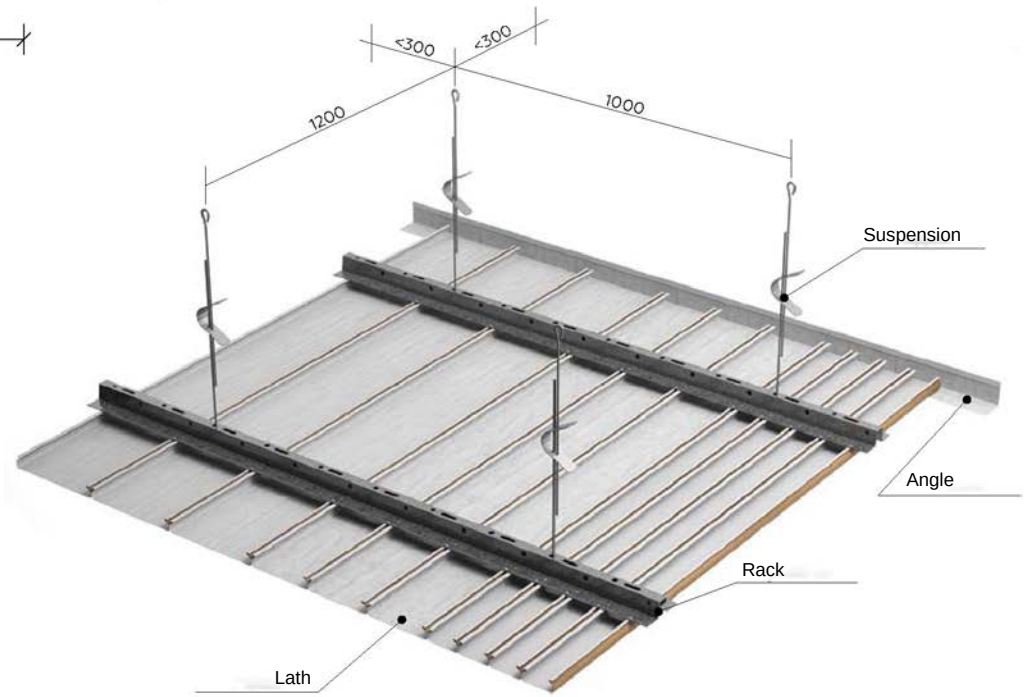
A - lath width
B - module
C - gap
H1 - height of lath with the rack

Rack BT-8



Lath joint

Lath connector



COMPLETE SET

Lath	Lath connector, L=200	Rack	Suspension
Module (B) 50 mm			
A50/AT	A50/AT	BT-8	AP, EURO
Flow per 1m2			
20 lin. m.	according to calculation	0.89 lin. m.	0.83 set
Module (B) 100 mm			
A100/AT	A100/AT	BT-8	AP, EURO
Flow per 1m2			
10 lin. m.	according to calculation	0.89 lin. m.	0.83 set
Module (B) 150 mm			
A150/AT	A150/AT	BT-8	AP, EURO
Flow per 1m2			
6,67 lin. m.	according to calculation	0.89 lin. m.	0.83 set

The system can be equipped with PL 19x24, PLL or RPP-25 angles if lath ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

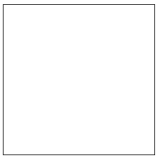
S-DESIGN

TECHNICAL CHARACTERISTICS

	H	A	H1	Rack length, m	Material and thickness, mm		
Rack brand	Rack height, mm	Rack width, mm	Total height, H1		AL	Galvanized steel	PVA
A25/AS	13.2	25	31	3 or 4, customized up to 6	0.3 - 0.4	-	-
A100/AS	13.2	100	31	3 or 4, customized up to 6	0.3 - 0.4	-	-
A150/AS	13.2	150	31	3 or 4, customized up to 6	0.3 - 0.4	-	-

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

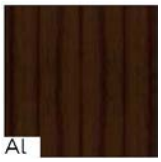
Metallic

Metallic matted

Super gold

Super chrome

Wood grain



Dark wood

Light wood

Grain W203-1013

Grain W212-1214

RAL pallete

DECOR colors

White pearls

White pearls with metal stripe

White pearls with met. squares

Silver metallic with met. stripe

Light beige stroke on white

Beige-green stroke on white

Pale beige stroke on white

Beige mat

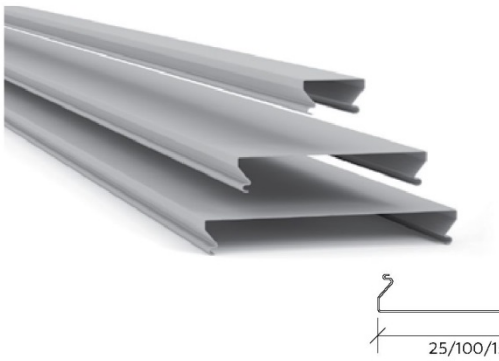
Pink pearls

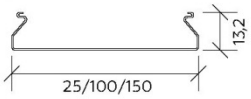
* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

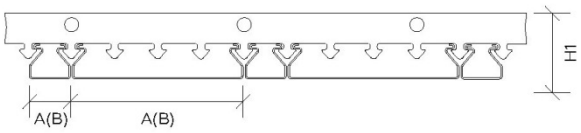
Perforation Ø = 1.5 mm is possible For perforation pattern refer to page page 121

S-DESIGN

BTS rack

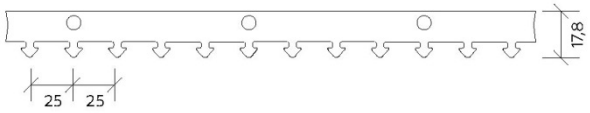






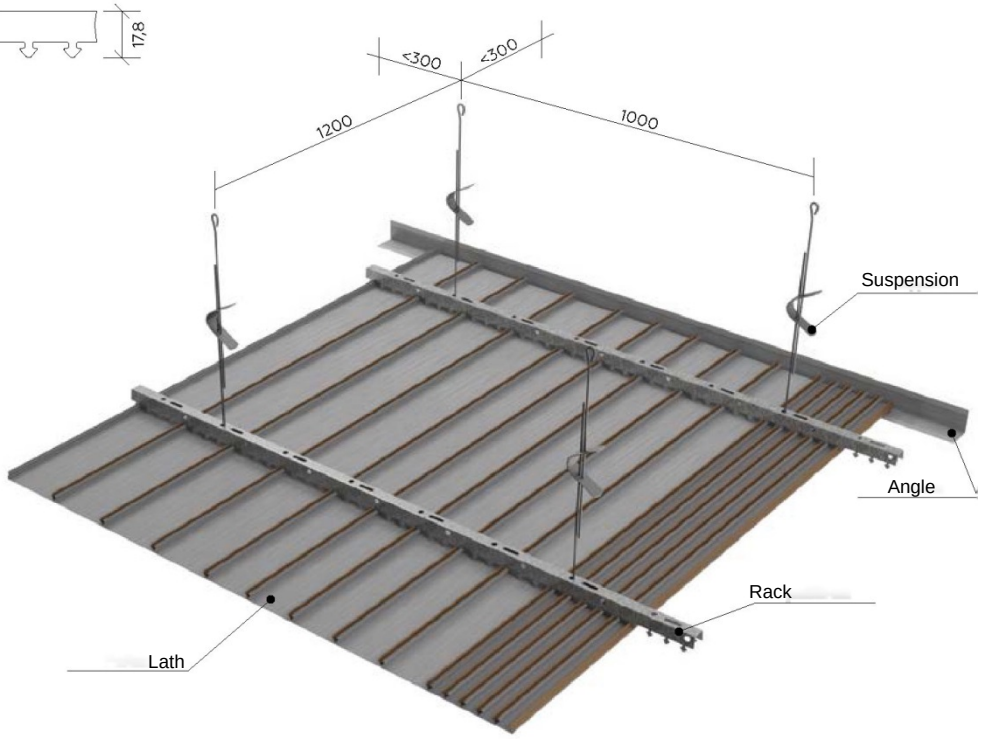
A - lath width
B - module
C - gap
H1 - height of lath with the rack

Rack BT-8



Lath joint

Lath connector



COMPLETE SET

Lath	Lath connector, L=200	Rack	Suspension
Module (B) 25 mm, gap (C) 15 mm			
A25/AS	A25/AS	BT-8	AP
Flow per 1m^2			
40 lin. m.	according to calculation	0.89 lin. m.	0.83 set
Module (B) 100 mm, gap (C) 15 mm			
A100/AS	A100/AS	BT-8	AP
Flow per 1m^2			
10 lin. m.	according to calculation	0.89 lin. m.	0.83 set
Module (B) 150 mm, gap (C) 15 mm			
A150/AS	A150/AS	BT-8	AP
Flow per 1m^2			
6,67 lin. m.	according to calculation	0.89 lin. m.	0.83 set

The system can be equipped with PL 19x24, PLL or RPP-18 angles if lath ends are adjacent to the wall. Consumption per 1 m^2 is according to the design.

SETS FOR BATHROOMS

The systems are designed for self-installation in typical bathrooms, the set includes the entire list of necessary elements and instructions that will allow you to easily mount the ceiling without help of specialists.

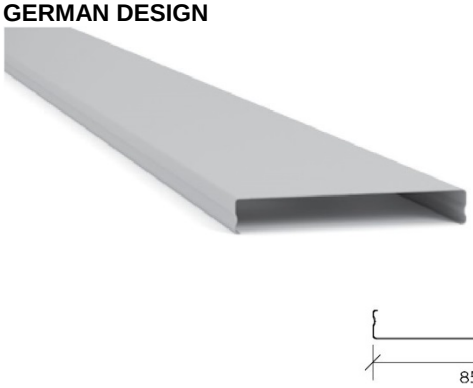
Made of aluminum, the ceilings have proven themselves in the decoration of rooms with high humidity: they are resistant to moisture, do not deform, do not lose their appearance during use.

Operational advantages of the ceiling are obvious: in the inter-ceiling space you can hide electrical wiring, ventilation boxes, pipes, hide existing shortcomings (cracks, streaks).

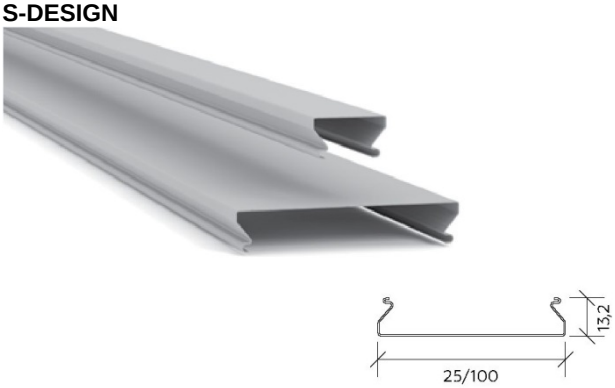
Fire resistance and environmental cleanliness fully meet the requirements.

Traces of condensation and any other contaminants are easily removed with mild non-abrasive detergents.

GERMAN DESIGN



S-DESIGN



LATH CEILING KITS

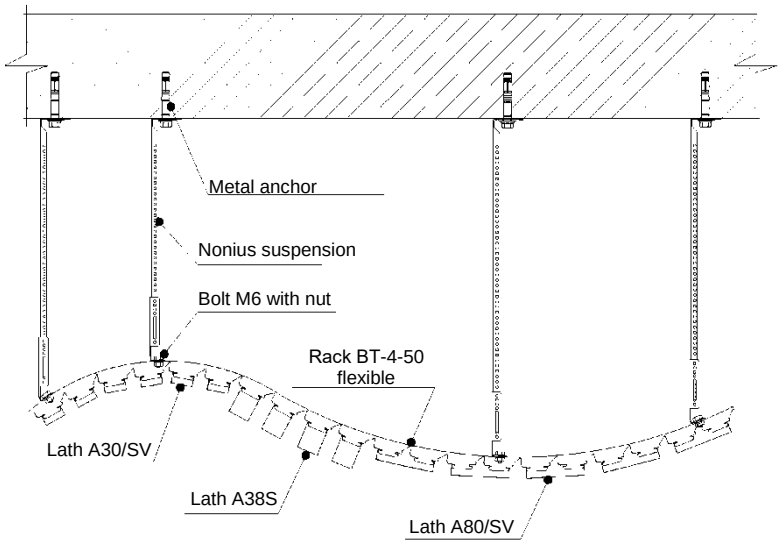
	Type of ceiling/brand		
Type and size of the room	**Product name**	**German design AN85/A**	**S-design A100/AS***
Bayjroom 1.7 x 1.7 m	Lath L=1.7 (un.)	18	18
	Layout L=1.7 m (un.)	17	–
	Rack L=1.7 m (un.)	2	2
	Perimeter, angle PL 19x24 L=1.7 m (un.)	4	–
	Ceiling suspension (un.)	4	–
	RPP profile L=1.7 m (un.)	–	4
Toilet 1.35 x 0.9 m	Lath L=1.35 m (un)	10	10
	Layout L=1.35 m (un.)	9	–
	Rack L=0.9 m (un.)	2	2
	Perimeter, angle PL 19x24 L=1.35 (un.); L=0.9 (un.)	4	–
	Ceiling suspension (un.)	4	–
	RPP profile L=1.35 (un.); L=0.9 (un.)	–	2+2

For S-design lath ceiling kits, suspensions are ordered separately.

RADIAL CEILING ON FLEXIBLE RACK

The use of a flexible rack allows the installation of laths with elevation differences, creating unique design solutions. This type of ceiling is calculated only according to the design and requires engineering study.

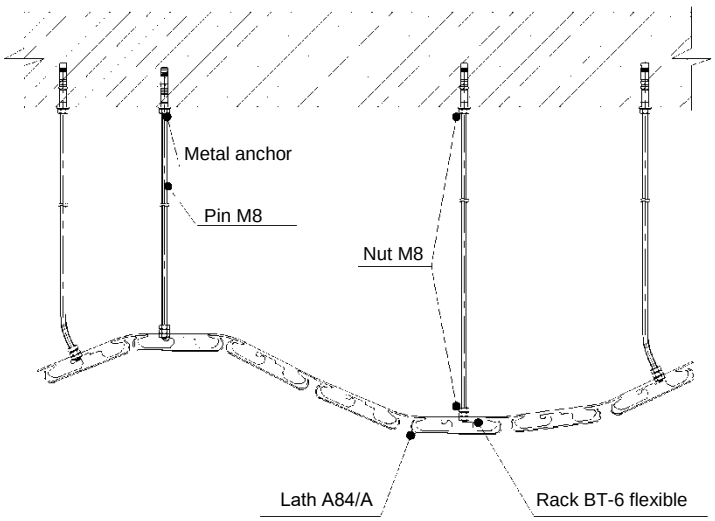
RADIUS FRAME ON A FLEXIBLE RACK BT-4-50 (BT-4-70)

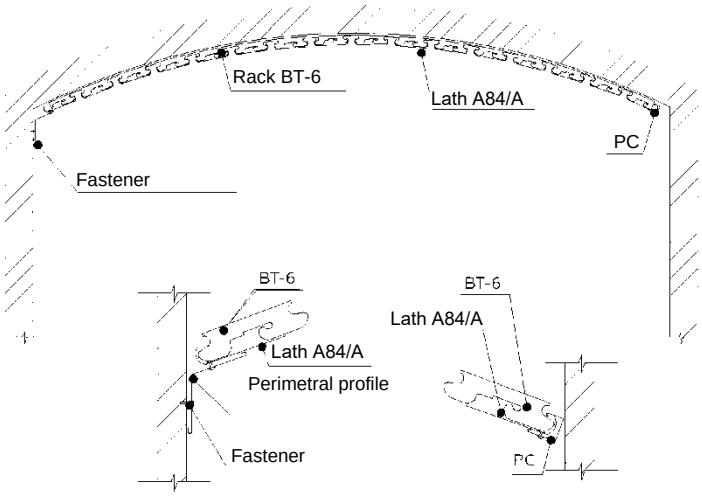


COMPLETE SET

Lath	Lath connector, L=200	Rack	Suspension
A38/S, A25/S, A30/SV, A80/SV, A40/V(50), A40/V(70)	A38/S, A25/S, A30/SV, A80/SV, A40/V(50), A40/V(70)	BT-4-50 flexible, BT-4-70 flexible	Nonius suspension, pin*

RADIUS FRAME ON A FLEXIBLE RACK BT-6-90 (BT-6-100)





COMPLETE SET

Lath	Lath connector	Rack	Fastener	Suspension	Perimetral profile
A84/A	A84/A	BT-6-90 flexible, BT-6-100 flexible	The brand of the fastener is determined by the design depending on the material of the supporting base.	Nonius suspension, pin*	Coupling elements are made on customer order.

The type of fastening is selected depending on the design.


BALANCE
BALANCE

RASTER CEILING GRILIATO

Raster suspended ceiling - trend cellular panels.

Decorative opportunities of design are almost limitless. It is possible to mount additional decorative elements (islands, pendant lamps), combine Grilliato designs with each other and with other types of ceiling systems.

The suspension system looks like a lightweight and airy design, thanks to the spot lighting compactly integrated between the cells with a certain pitch. Using adjustable suspensions, the suspended ceiling is attached to the load-bearing building structures. Offset from the rough ceiling can be at any level specified in the project.

It is not allowed to use raster suspended ceilings outside.

Grilliato Standard Cell Ceiling Kit includes:

- U-shaped load-bearing guides with a length of 2,4,1,2, 0.6 m;
- U-shaped elements of the lath: female element and male element;
- U-shaped diagonal element (For Griliato lath GTA-150 triangular);
- Perimetral profile;
- Adjustable suspensions: AP-G/ universal suspension;
- Connector insert (PG).

Grillato GL ceiling kit includes:

- T-shaped bearing guides with a length of 3.7 m;
- T-shaped cross-profiles with a length of 1.2, 0.6 m;
- U-shaped elements of the lath: female element and male element;
- L-shaped element;
- U-shaped diagonal element (For Griliato lath D15 diagonal);
- Perimetral profile;
- Adjustable suspensions: AP/euro-suspension/universal suspension/nonius suspension.

Non-aggressive Weakly aggressive average aggressive (SP 28.13330.2017)

Combustibility NG, G1*

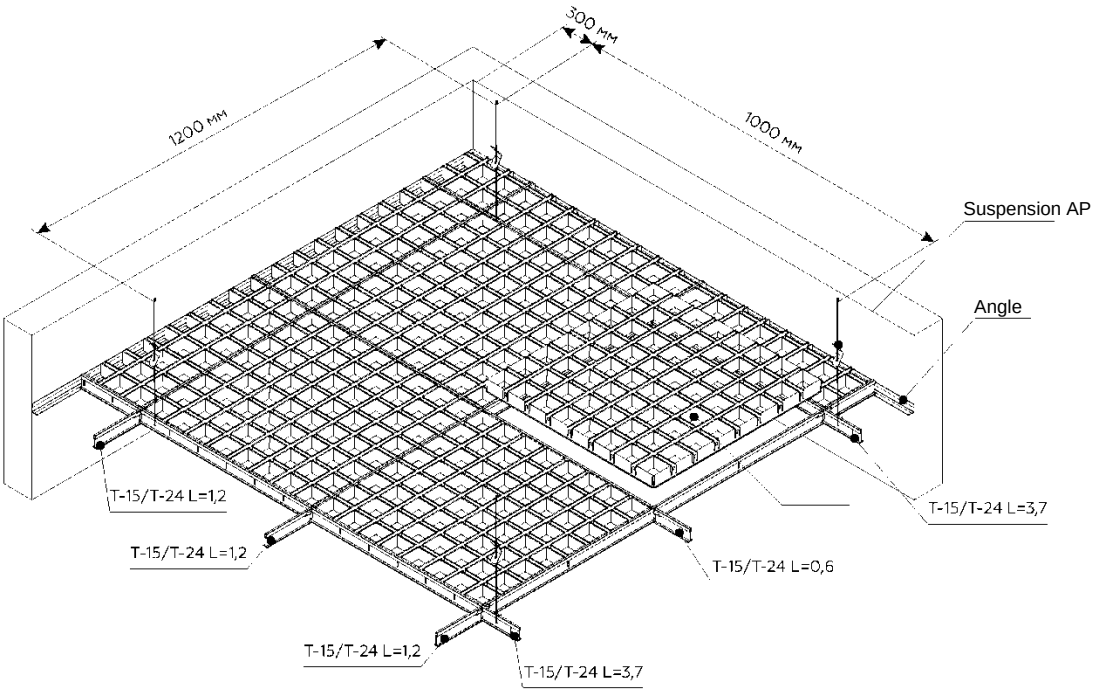
< +90°C

Dry
Wet
Normal
(SP 50.13330.2012)

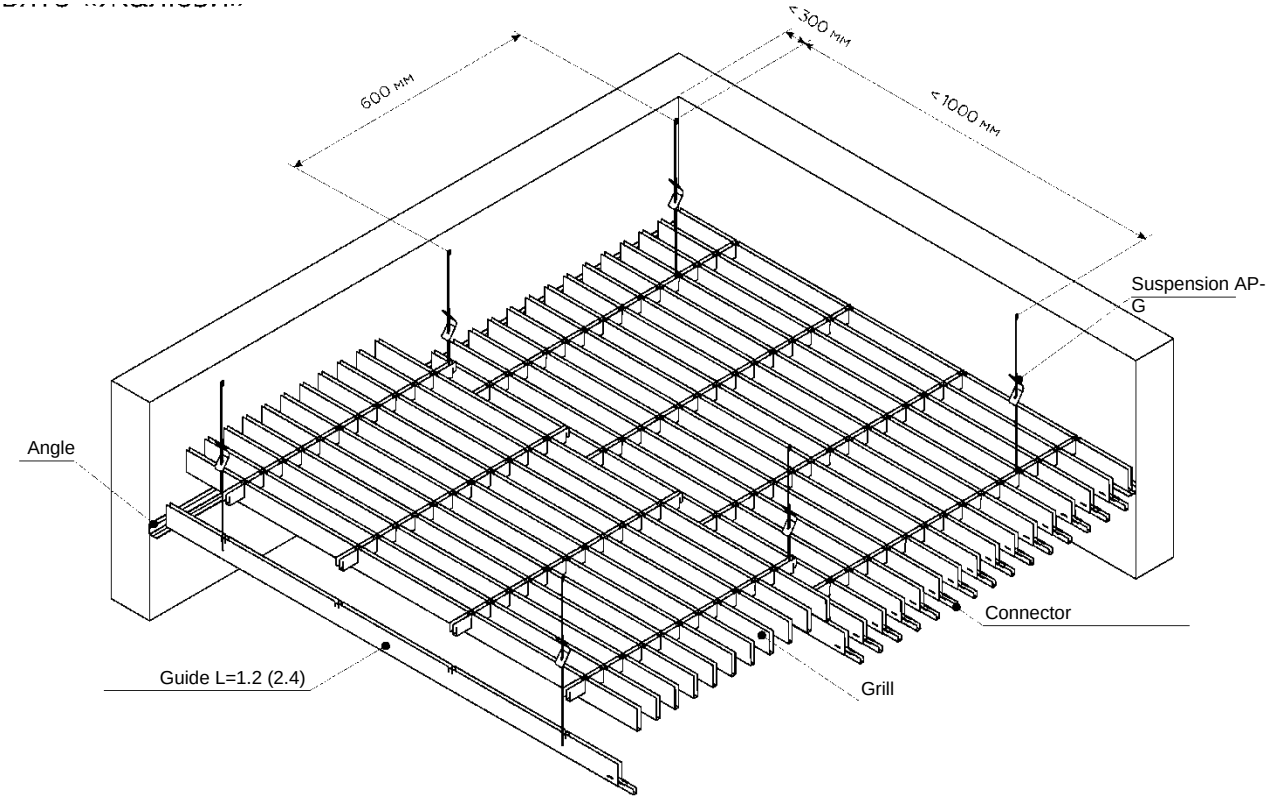
* In accordance with valid certificates

BASIC ASSEMBLY DIAGRAM

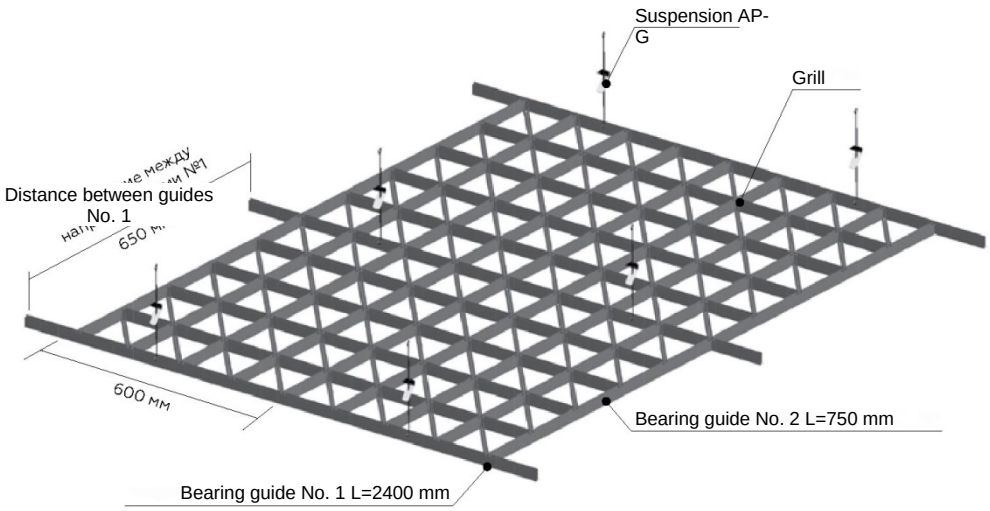
- Griliato GL-15
- Griliato GL-24
- Griliato D-15



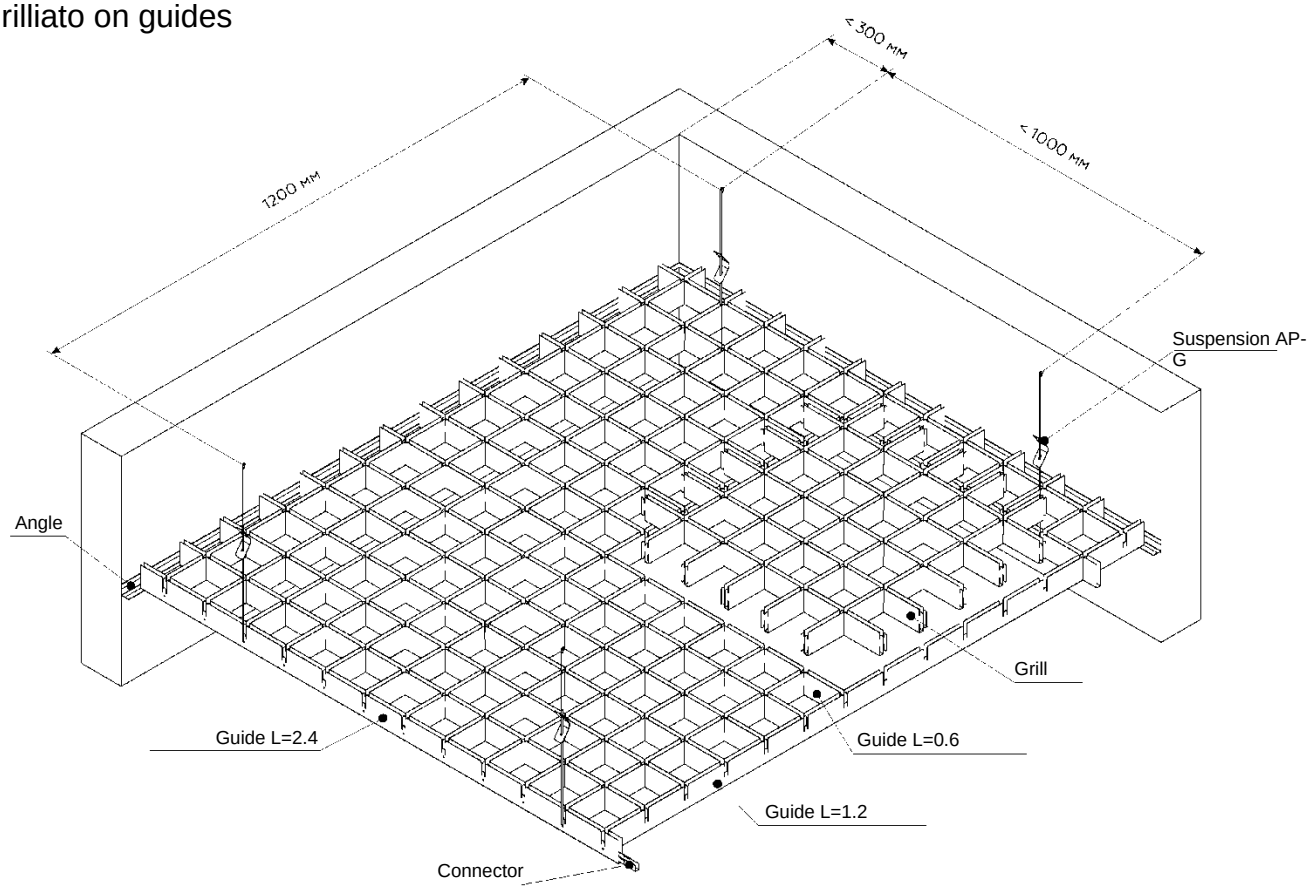
- Griliato "Shutters"



– Triangular Grillato



– Grilliato on guides



G

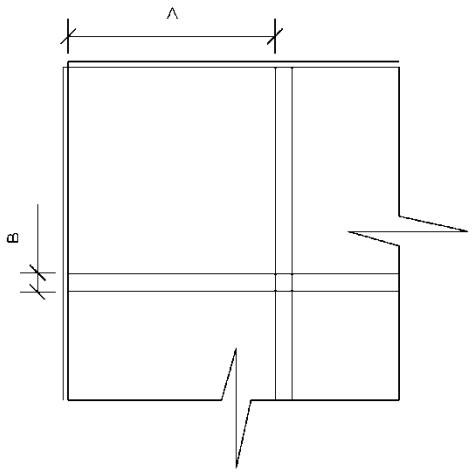
BASIC ASSEMBLY DIAGRAM

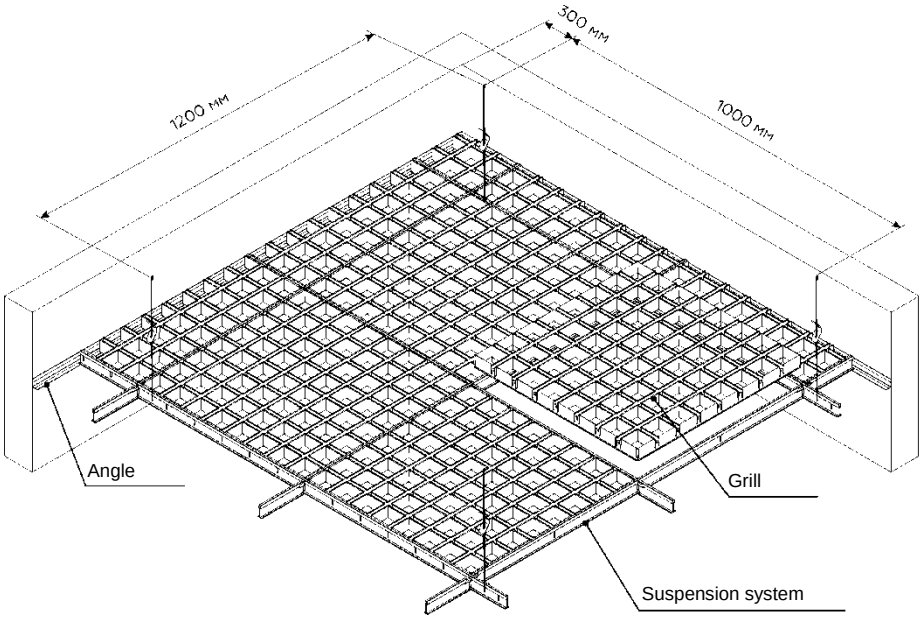
System brand	Product name	Product brand, size	Module, mm	UoM	Flow per 1 m²																	
					30x30	50x50	60x60	75x75	86x86	100x100	120x120	150x150	200x200	model 1	model 2	model 3	model 4	model 5	model 6	model 7	model 8	model 9	model 10
Griliato	Grill	PU	600x600	un.	2.78																		0.7
	Number of plates in the grill	female 30x5. 40x10, 50x10,30x10	600	un.	19	11	9	7	6	5	4	3	2	7	5	5	5	3	12	20	10	13	12
		male 30x5, 40x10, 50x10,30x10	600	un.	19	11	9	7	6	5	4	3	2	7	5	5	5	3	3	3	10	13	12
	Bearing guides	No. 1 30x5, 40x10, 50x10, 30x10	2400	un.	0.7				0.35														0.35
		No. 2 30x5, 40x10, 50x10, 30x10	1200	un.	—				1.39														0.7
		No. 3 30x5, 40x10, 50x10, 30x10	600	un.	2.78				1.39														—
	Connector	PG 30x5,50x10		un.	0.7				0.35														0.35
	Suspension	AP-G, universal		set	1.85				0.93														0.93
	Angle	PL, PLL		lin. m.	according to calculation																		
Split level Griliato					50x50		60x60		75x75		86x86		100x100		120x120			150x150			200x200		
	Grill	RG	600x600	un.	2.78																		
	Number of plates in the grill	female 30x10	600	un.	11		9		7		6		5		4			3			2		
		male 30x10	600	un.	11		9		7		6		5		4			3			2		
	Bearing guides	No.1 50x10	2400	un.	0.7						0.35												
		No.2 50x10	1200	un.	—						1.39												
		No.3 50x10	600	un.	2.78						1.39												
	Connector	PG 50x10		un.	0.7						0.35												
	Suspension	AP-G, universal		set	1.85						0.93												
	Angle	PL, PLL		lin. m.	according to calculation																		
Griliato "Shutters"					module 1200								module 2400										
					300x50	300x60	300x75	300x86	300x100	300x120	300x150	300x200	300x50	300x60	300x75	300x86	300x100	300x120	300x150	300x200			
	Grill	RG	600x1200	un.	1.39								0.7										
	Number of plates in the grill	female 50x10	1200	un.	11	9	7	6	5	4	3	2	22	18	14	12	10	8	6	4			
		male 30x10	600	un.	4								8										
	Bearing guides	50x10	1200, 2400	un.	1.39								0.7										
	Suspension	AP-G, universal		set	2.78								2.78										
	Connector	PG 50x10		un.	not applicable for areas with width more than 1200 mm								11	9	7	6	5	4	3	2			
	Angle	PL, PLL		lin. m.	according to calculation																		
Pyramidical Griliato					75x75				86x86				100x100		120x120			150x150			200x200		
	Grill	RG	600x600	un.	2.78																		
	Number of plates in the grill	female 35x10, 42x10	600	un.	7				6				5		4			3			2		
		male 35x10, 42x10	600	un.	7				6				5		4			3			2		
	Bearing guides	No. 1 35x10,42x10	2400	un.	0.7				0.35														
		No. 2 35x10,42x10	1200	un.	—				1.39														
		No. 3 35x10,42x10	600	un.	2.78				1.39														
	Connector	PG 50x10		un.	0.7				0.35														
	Suspension	AP-G, universal		set	1.85				0.93														
	Angle	PL, PLL		lin. m.	according to calculation																		
Triangular Griliato					150x150x150																		
	Grill	RG	600x750	un.	2.57																		
	Number of plates in the grill	female	750	un.	3																		
		male	600	un.	4																		
	Diagonal element	D1	600	un.	2																		
		D2	450	un.	2																		
		D3	150	un.	2																		
		D4	150	un.	2																		
	Bearing guides	Bearing guide No. 1	2400	un.	0.65																		
		Bearing guide No.2	750	un.	2.57																		
	Connector	PG		un.	0.65																		
	Suspension	AP-G, universal		set	1.54																		
	Angle	RPP-40		lin. m.	according to calculation																		

BASIC ASSEMBLY DIAGRAM

System brand	Product name	Product brand, size	Module, mm	UoM	Flow per 1 m²						
					60x60	75x75	86x86	100x100	120x120	150x150	200x200
Griliato GL-24	Grill	RG	600x600	un.	2.78						
	Number of plates in the grill	female 34x24	600	un.	9	7	6	5	4	3	2
		male 34x24	600	un.	9	7	6	5	4	3	2
		L	600	un.	4						
	Suspension system T-24	bearing profile	3700	lin. m.	0.83						
		cross profile	1200	lin. m.	1.67						
		cross profile	600	lin. m.	0.83						
	Suspension	AP, EURO, universal, nonius suspension		set	0.93						
	Angle	PL, PLL		lin. m.	according to calculation						
Griliato GL-24 Shutters					60x300		75x300		86x300		100x300
	Grill	RG	600x600	un.	2.78						
	Number of plates in the grill	female 34x24	600	un.	9		7		6		5
		male 34x24	600	un.	1						
		L	600	un.	2+2						
	Suspension system T-24 PRIM Line	bearing profile	3700	lin. m.	0.83						
		cross profile	1200	lin. m.	1.67						
		cross profile	600	lin. m.	0.83						
	Suspension	AP, EURO, universal, nonius suspension		set	0.93						
	Angle	PL, PLL		lin. m.	according to calculation						
Diagonal Griliato					150x150						
	Grill	RG	600x600	un.	2.78						
	Number of plates in the grill	female No.1 37x15	600	un.	2						
		female No.2 37x15	600	un.	1						
		male No.1 37x15	600	un.	2						
		male No.2 37x15	600	un.	1						
		L	600	un.	4						
		«D», 37x15	403	un.	4						
	Suspension system T-15 PRIM	bearing profile	3700	lin. m.	0.83						
		cross profile	1200	lin. m.	1.67						
		cross profile	600	lin. m.	0.83						
	Suspension	AP, EURO, universal, nonius suspension		set	0.93						
	Angle	PL, PLL		lin. m.	according to calculation						
Griliato GL15					50x50	60x60	75x75	86x86	100x100	120x120	150x150	200x200
	Grill	RG	600x600	un.	2.78							
	Number of plates in the grill	female 37x15, 47x15	600	un.	11	9	7	6	5	4	3	2
		male 37x15, 47x15	600	un.	11	9	7	6	5	4	3	2
		L	600	un.	4							
	Suspension system T-15 PRIM	bearing profile	3700	lin. m.	0.83							
		cross profile	1200	lin. m.	1.67							
		cross profile	600	lin. m.	0.83							
	Suspension	AP, EURO, universal, nonius suspension		set	0.93							
	Angle	PL, PLL		lin. m.	according to calculation							
Griliato GL15 Shutters					50x300		60x300		75x300		86x300	100x300
	Grill	RG	600x600	un.	2.78							
	Number of plates in the grill	female 37x15, 47x15	600	un.	11		9		7		6	5
		male 37x15, 47x15	600	un.	1							
		L	600	un.	2+2							
	Suspension system T-15 PRIM	bearing profile	3700	lin. m.	0.83							
		cross profile	1200	lin. m.	1.67							
		cross profile	600	lin. m.	0.83							
	Suspension	AP, EURO, universal, nonius suspension		set	0.93							
	Angle	PL, PLL		lin. m.	according to calculation							

GRILIATO GL-15



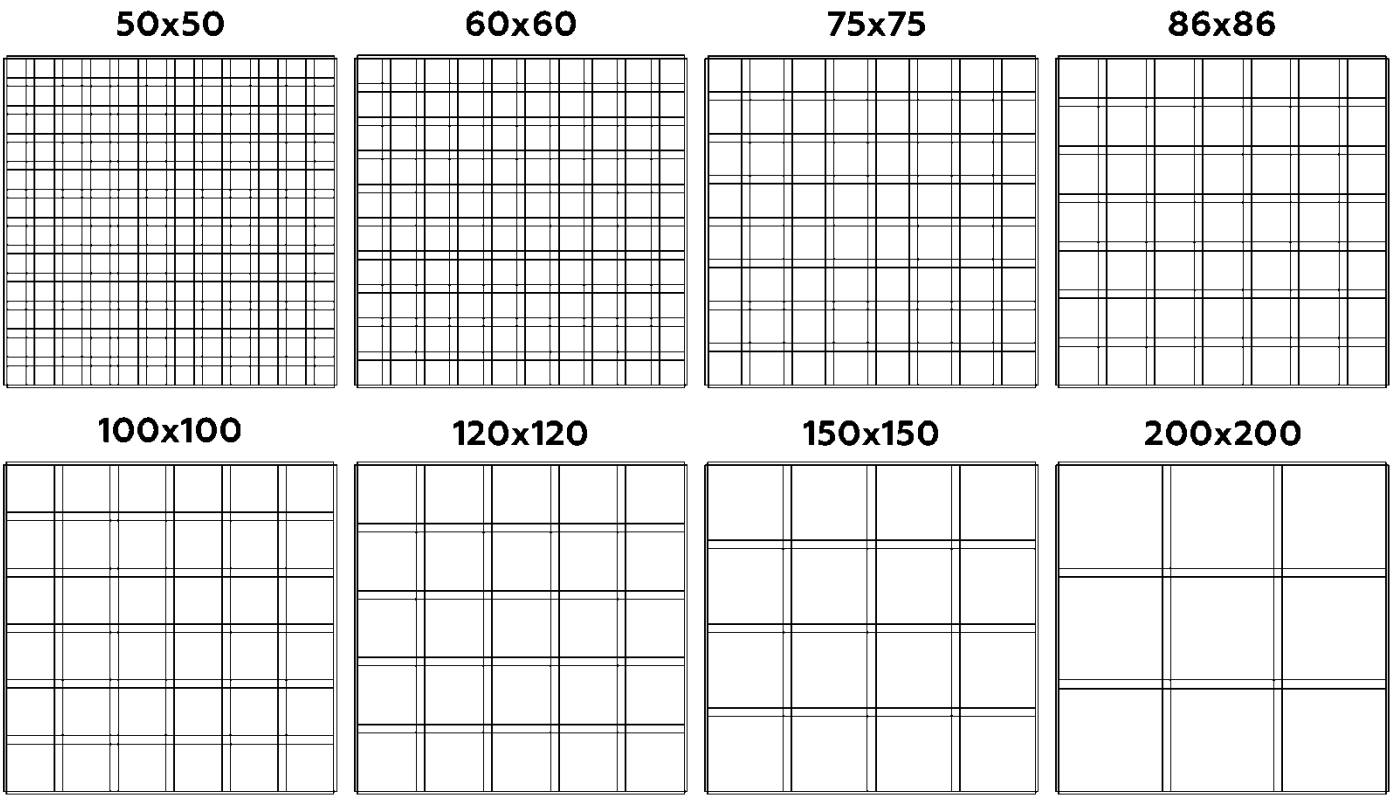


A - cell size
B -width of the visible part of the profiles (base),

TECHNICAL CHARACTERISTICS

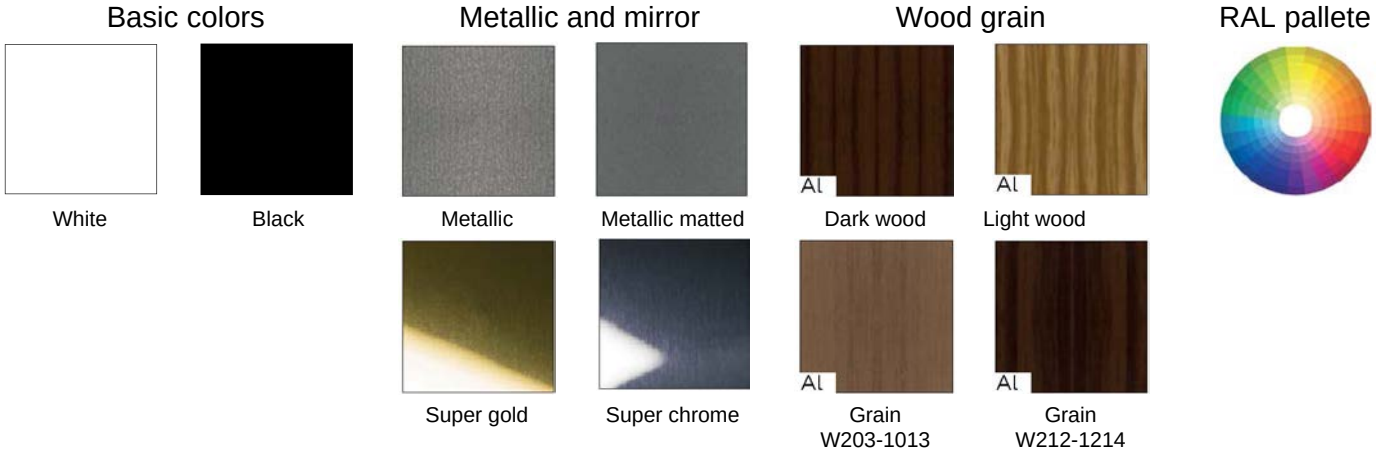
Grill size	Height of female, male profiles	Width of the visible part of the profiles (base), B	Manufacture material
600x600 mm	37/47 mm	15 mm	AL 0.3-0.4 mm galvanized steel 0.2 mm

SIZES OF CELLS IN THE GRILL



This type of ceiling is suitable for VALTONIX luminaires of the following types: UNIVERSAL LED Albes, ULTRA LIGHT LED, Pelin™ PIX

COLOR DESIGN *



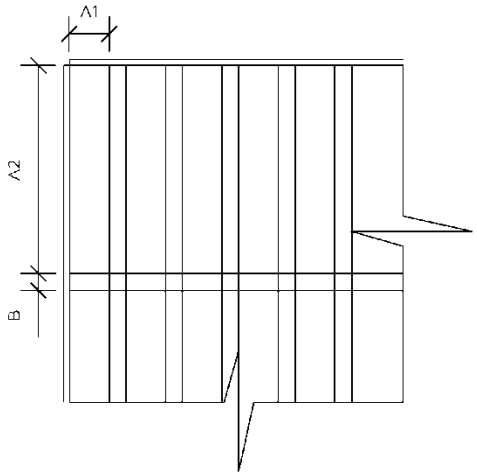
* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

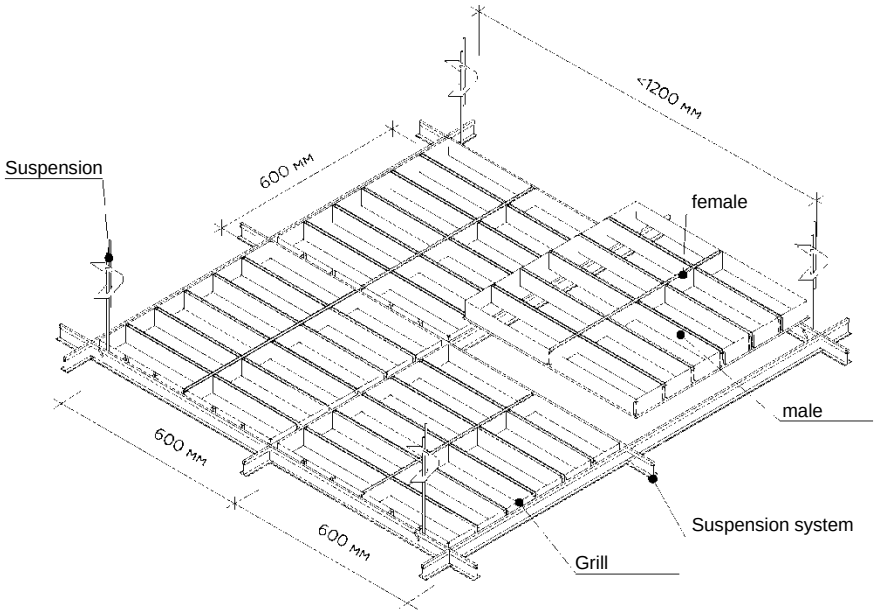
COMPLETE SET AND CONSUMPTION PER 1 M^2

Cell size, mm (A)	Cell type size, mm (A+B)	Number of plates in the grill (female/male) 600 mm	Framing L-profile 600 mm	Suspension system T15 PRIM/ T15 CL-15			AP, EURO, universal, nonius suspension.
				Bearing profile 3700 mm	Cross profile 1200 mm	Cross profile 600 mm	
35	50x50	11 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
45	60x60	9 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
60	75x75	7 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
71	86x86	6 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
85	100x100	5 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
105	120x120	4 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
135	150x150	3 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
185	200x200	2 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

GRILIATO GL-15 SHUTTERS



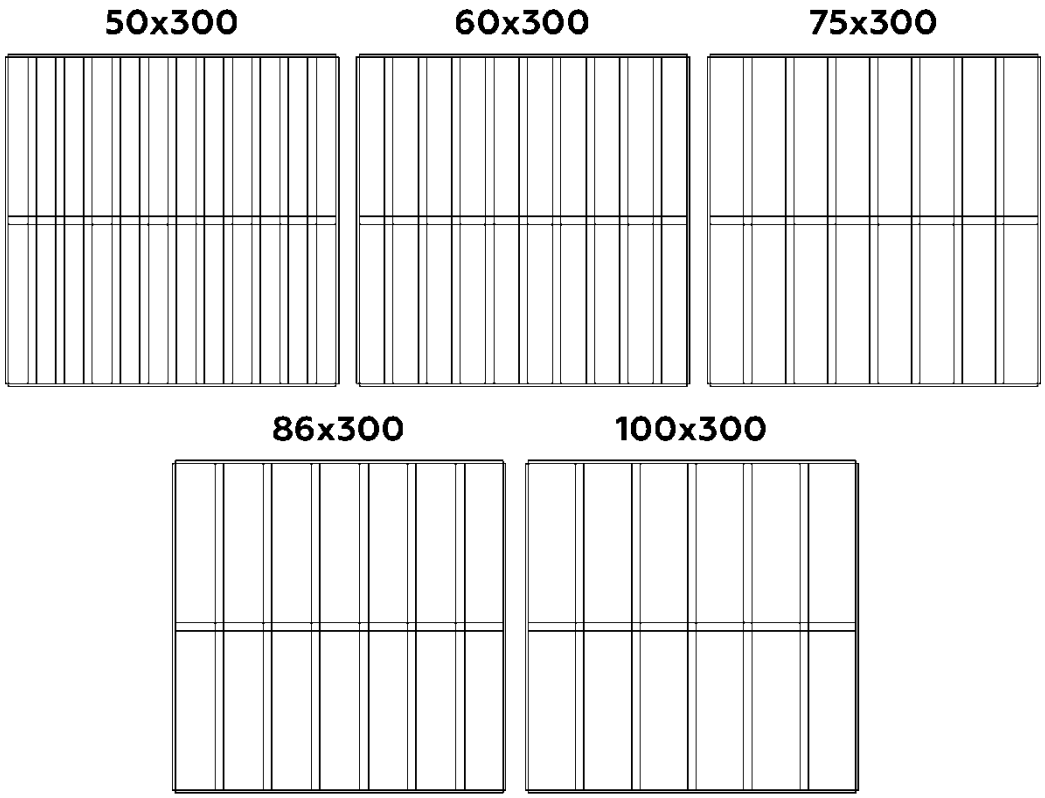


A1+A2 - cell size
B -width of the visible part of the profiles (base),

TECHNICAL CHARACTERISTICS

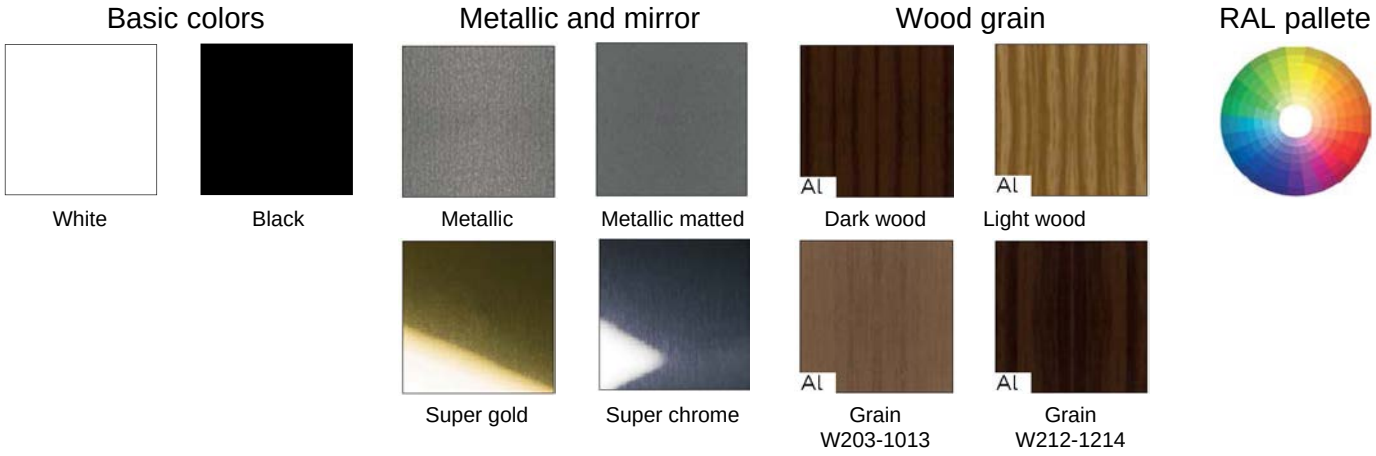
Grill size	Height of female, male profiles	Width of the visible part of the profiles (base), C	Material of manufacture
600x600 mm	37/47 mm	15 mm	AL 0.3-0.4 mm galvanized steel 0.2 mm

SIZES OF CELLS IN THE GRILL



This type of ceiling is suitable for VALTONIX luminaries of the following types: UNIVERSAL LED Albes, ULTRA LIGHT LED

COLOR DESIGN *



* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

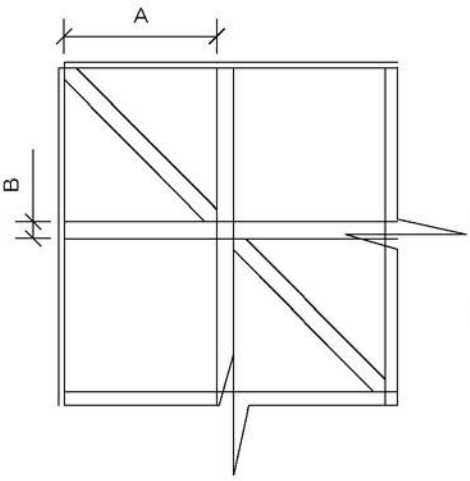
COMPLETE SET AND CONSUMPTION PER 1 M^2

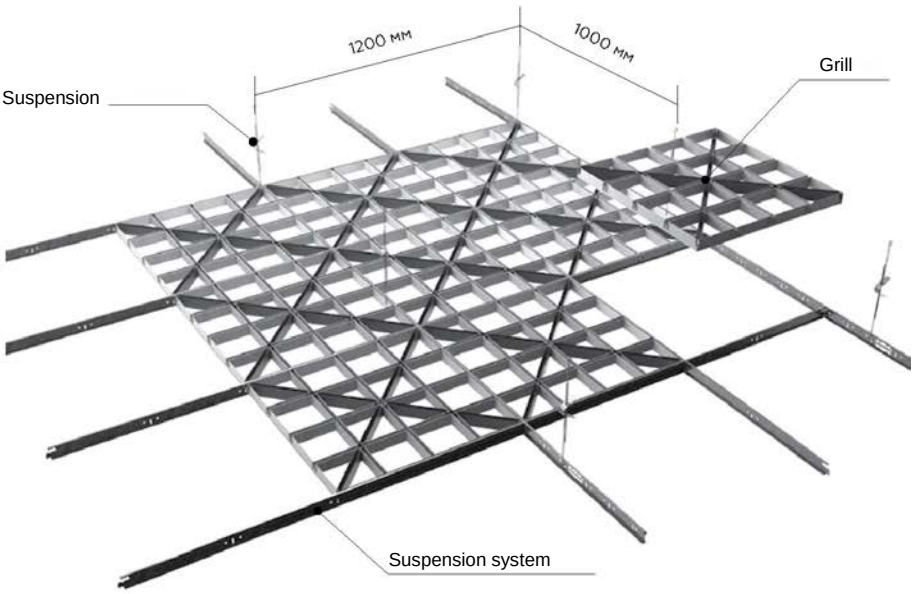
Cell size, mm (AxB)	Cell type size, mm (AxB)+C	Number of female plates in grill 600 mm	Number of male plates in grill 600 mm	Framing L-profile 600 mm	Suspension system T24 PRIM Line			AP, EURO, universal, nonius-suspension
					Bearing profile 3700 mm	Cross profile 1200 mm	Cross profile 600 mm	
35x275	50x300	11 un.	1 un.	2+2* un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
45x275	60x300	9 un.	1 un.	2+2* un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
60x275	75x300	7 un.	1 un.	2+2* un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
71x275	86x300	6 un.	1 un.	2+2* un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
85x275	100x300	5 un.	5 un.	2+2* un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set

* Framing L-profile of two types:
1.300x300
2. Depending on the cell size

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

GRILIATO GL-15 DIAGONAL





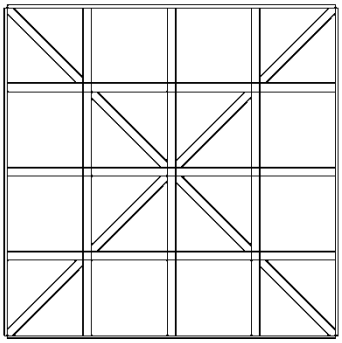
A - cell size
B -width of the visible part of the profiles (base),

TECHNICAL CHARACTERISTICS

Grill size	Height of female, male profiles	Width of the visible part of the profiles (base), B	Manufacture material
600x600 mm	37 mm	15 mm	AL 0.3-0.4 mm

SIZES OF CELLS IN THE GRILL

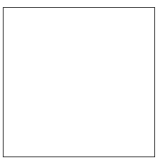
150x150



This type of ceiling is suitable for VALTONIX luminaries of the following types:
UNIVERSAL LED Albes, ULTRA LIGHT LED

COLOR DESIGN *

Basic colors


White


Black

Metallic and mirror

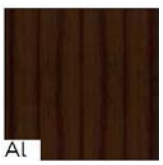

Metallic


Metallic matted


Super gold


Super chrome

Wood grain


Dark wood

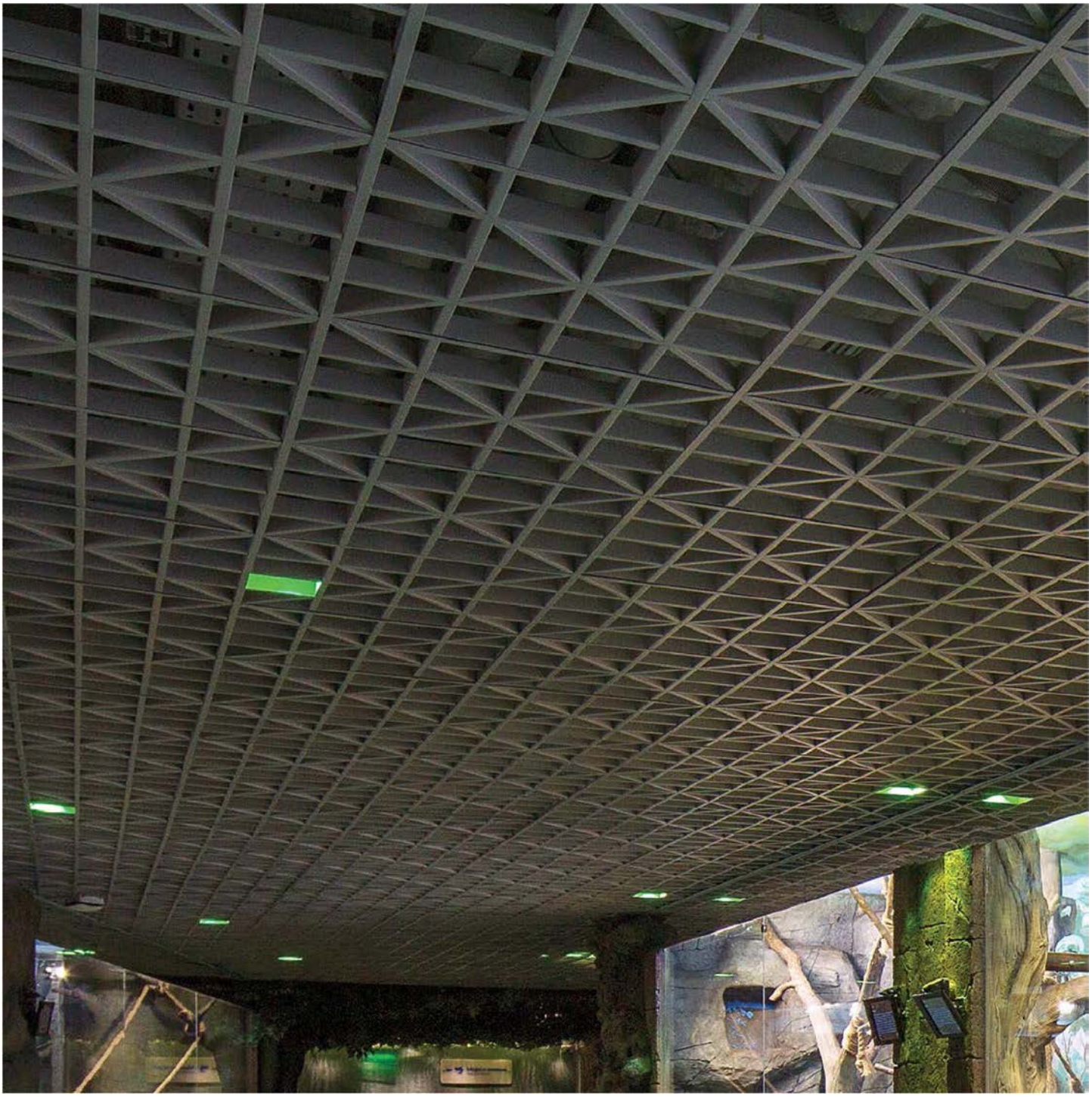

Light wood


Grain
W203-1013


Grain
W212-1214

RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.



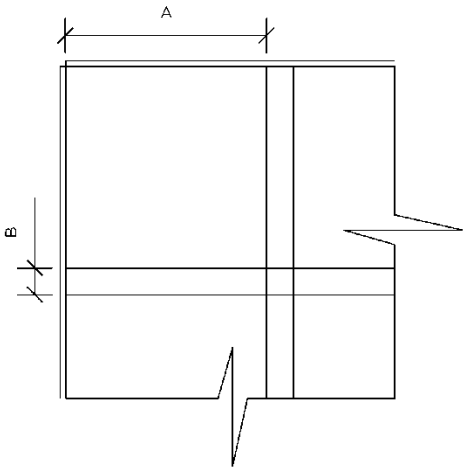
COMPLETE SET AND CONSUMPTION PER 1 M2

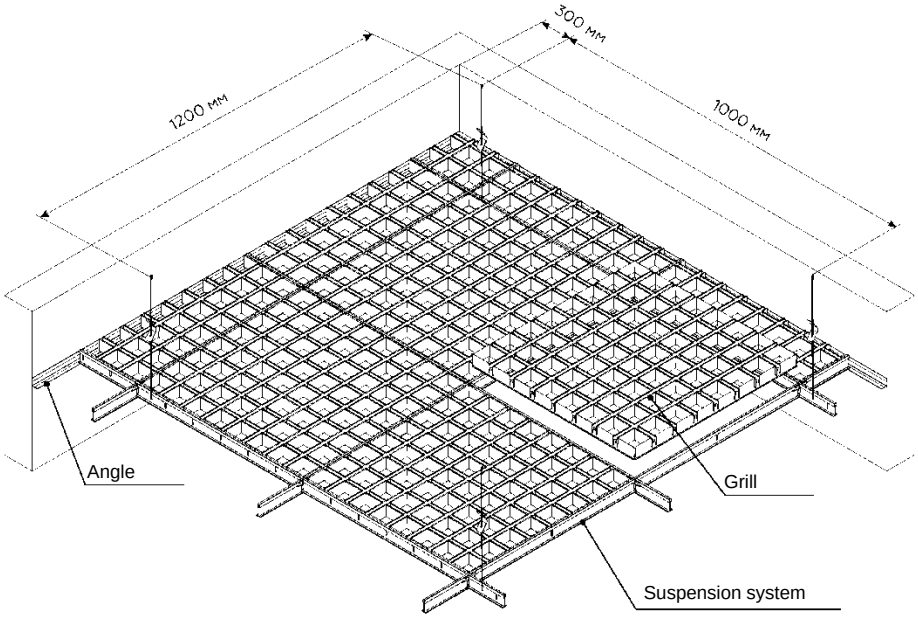
Cell size, mm (A)	Cell type size, mm (A+B)	Number of plates in the grill (female No. 1/male No. 1) 600 mm	Number of plates in the grill (female No. 2/male No. 2) 600 mm	Framing L-profile 600 mm	Diagonal element D 37x15 403 mm
135	150x150	2 un.	1 un.	4 un.	4 un.

Suspension system T15 PRIM/ T15 CL-15			AP, EURO, universal, nonius suspension.
Bearing profile 3700 mm	Cross profile 1200 mm	Cross profile 600 mm	
0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

GRILIATO GL-24



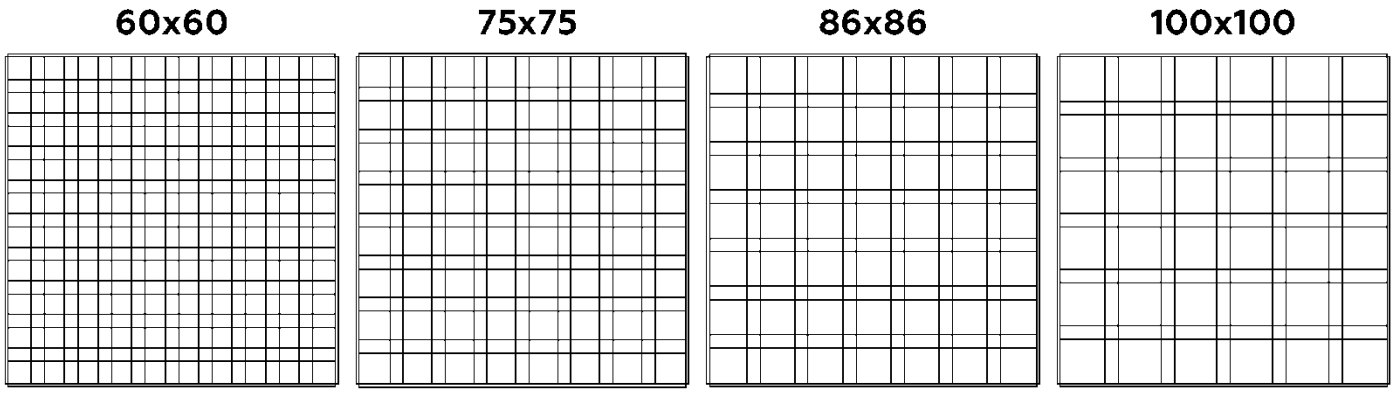


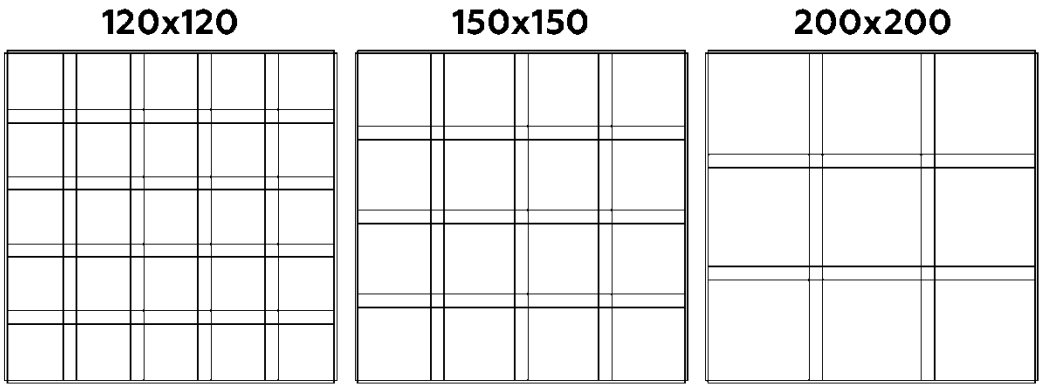
A - cell size
B -width of the visible part of the profiles (base),

TECHNICAL CHARACTERISTICS

Grill size	Height of female, male profiles	Width of the visible part of the profiles (base), B	Manufacture material
600x600 mm	34 mm	24 mm	AL 0.3-0.4 mm galvanized steel 0.2 mm

SIZES OF CELLS IN THE GRILL

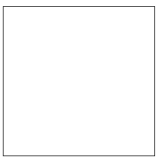




This type of ceiling is suitable for VALTONIX luminaries of the following types: UNIVERSAL LED Albes, ULTRA LIGHT LED

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

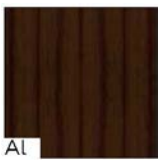
Metallic

Metallic matted

Super gold

Super chrome

Wood grain



Dark wood

Light wood

Grain W203-1013

Grain W212-1214

RAL pallete

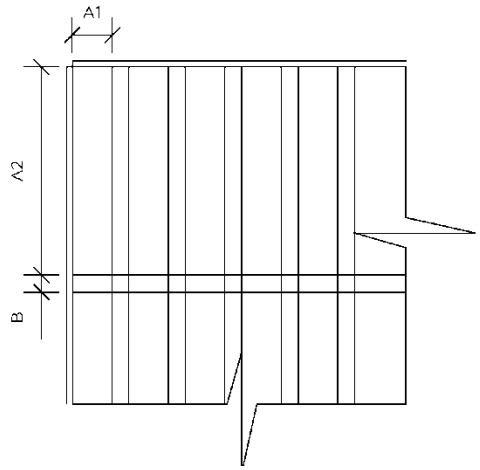
* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

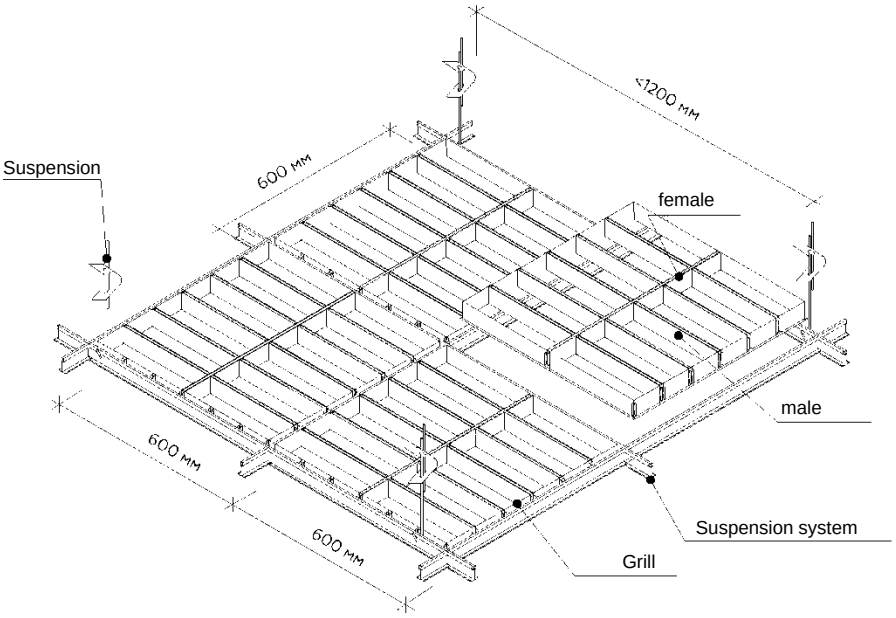
COMPLETE SET AND CONSUMPTION PER 1 M^2

Cell size, mm (A)	Cell type size, mm (A+B)	Number of plates in the grill (female/male) 600 mm	Framing L-profile 600 mm	Suspension system T-24			AP, EURO, universal, nonius suspension.
				Bearing profile 3700 mm	Cross profile 1200 mm	Cross profile 600 mm	
36	60x60	9 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
51	75x75	7 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
62	86x86	6 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
76	100x100	5 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
96	120x120	4 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
126	150x150	3 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
176	200x200	2 un.	4 un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

GRILIATO GL-24 SHUTTERS





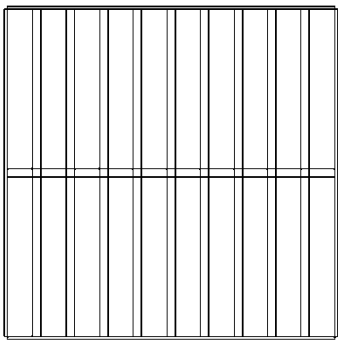
A1+A2 - cell size
B -width of the visible part of the profiles (base),

TECHNICAL CHARACTERISTICS

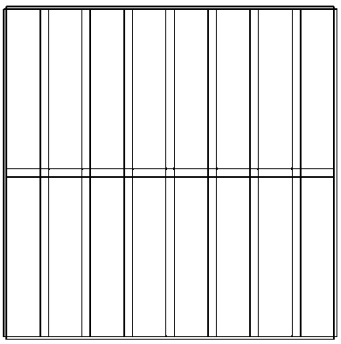
Grill size	Height of female, male profiles	Width of the visible part of the profiles (base), C	Manufacture material
600x600 mm	34 mm	24 mm	AL 0.3-0.4 mm galvanized steel 0.2 mm

SIZES OF CELLS IN THE GRILL

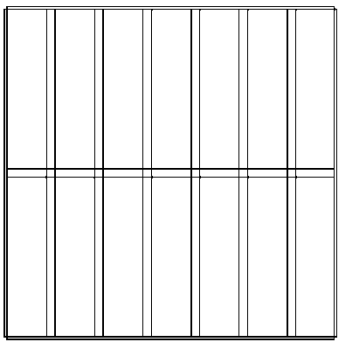
60x300



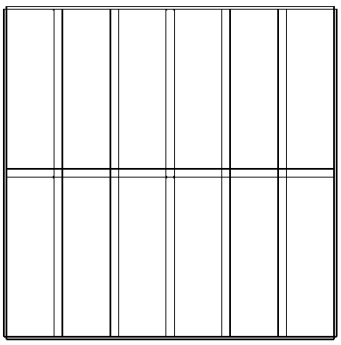
75x300



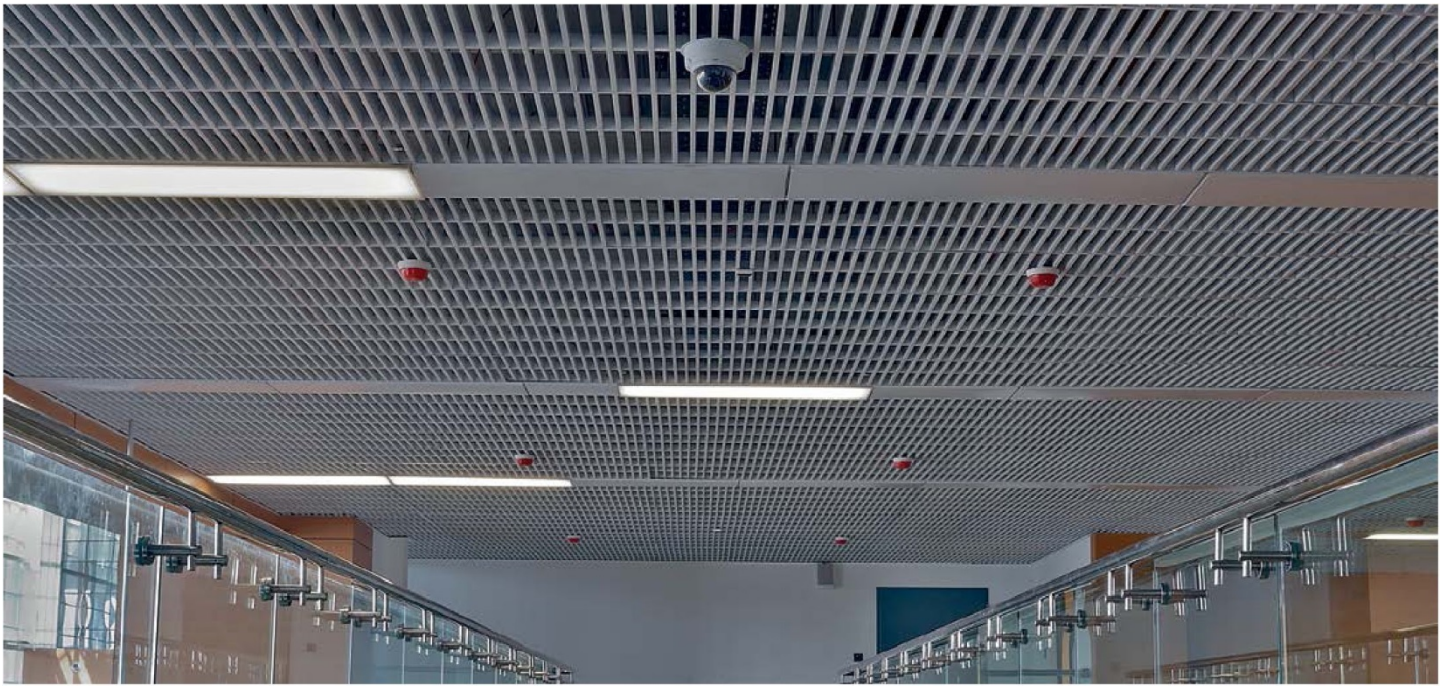
86x300



100x300

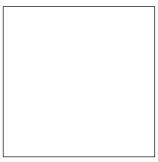


This type of ceiling is suitable for VALTONIX luminaries of the following types: UNIVERSAL LED Albes, ULTRA LIGHT LED



COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

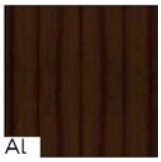
Metallic

Metallic matted

Super gold

Super chrome

Wood grain



Dark wood

Light wood

Grain W203-1013

Grain W212-1214

RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

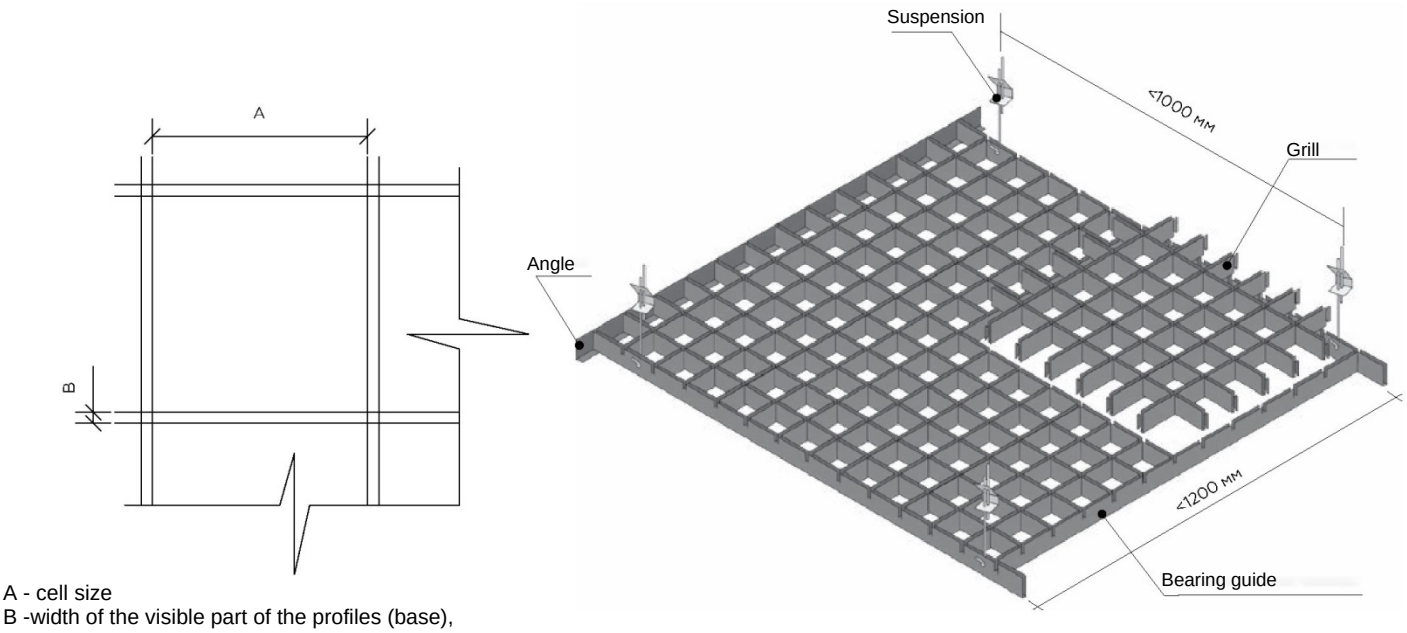
COMPLETE SET AND CONSUMPTION PER 1 M^2

Cell size, mm (AxB)	Cell type size, mm (AxB)+C	Number of female plates in grill 600 mm	Number of male plates in grill 600 mm	Framing L-profile 600 mm	Suspension system T24 PRIM Line			AP, EURO, universal, nonius-suspension
					Bearing profile 3700 mm	Cross profile 1200 mm	Cross profile 600 mm	
36x276	60x300	9 un.	1 un.	2+2* un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
51x276	75x300	7 un.	1 un.	2+2* un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
62x276	86x300	6 un.	1 un.	2+2* un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set
76x276	100x300	5 un.	5 un.	2+2* un.	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	0.83 set

* Framing L-profile of two types:
1.300x300
2. Depending on the cell size

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

GRILIATO REGULAR CELL

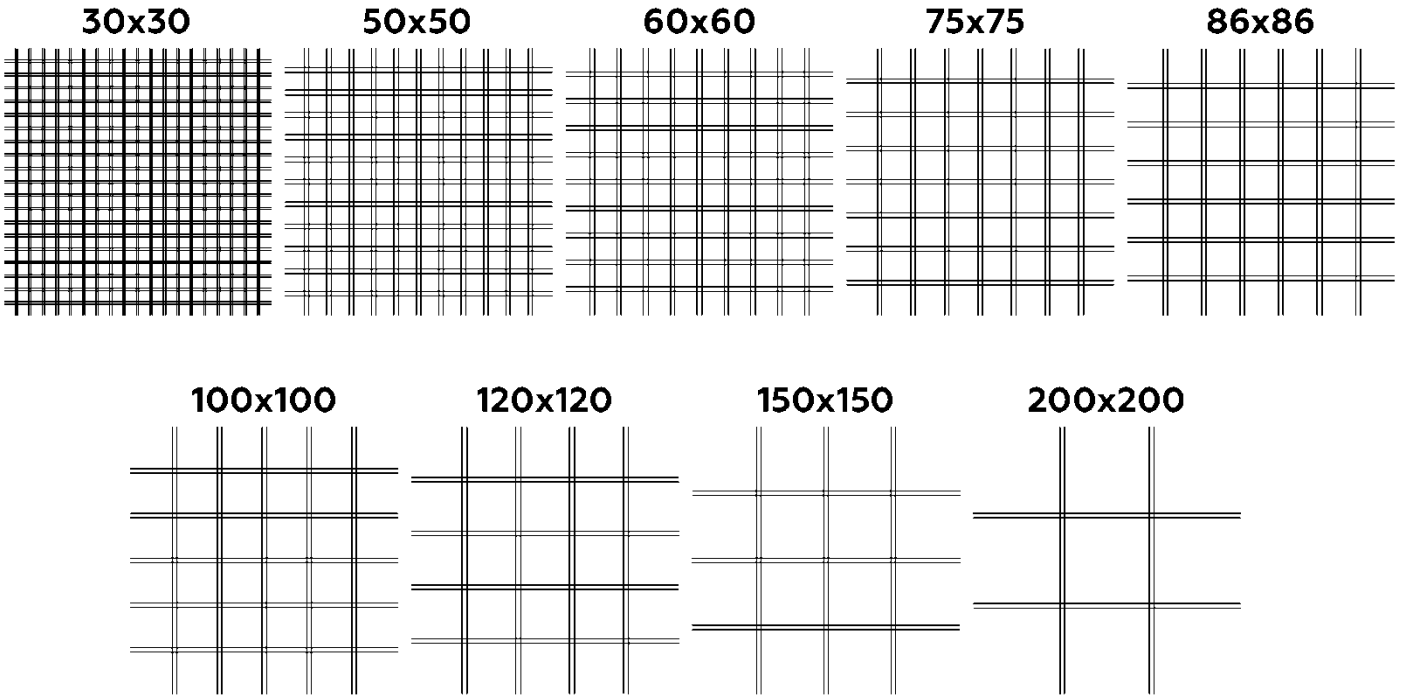


A - cell size
B -width of the visible part of the profiles (base),

TECHNICAL CHARACTERISTICS

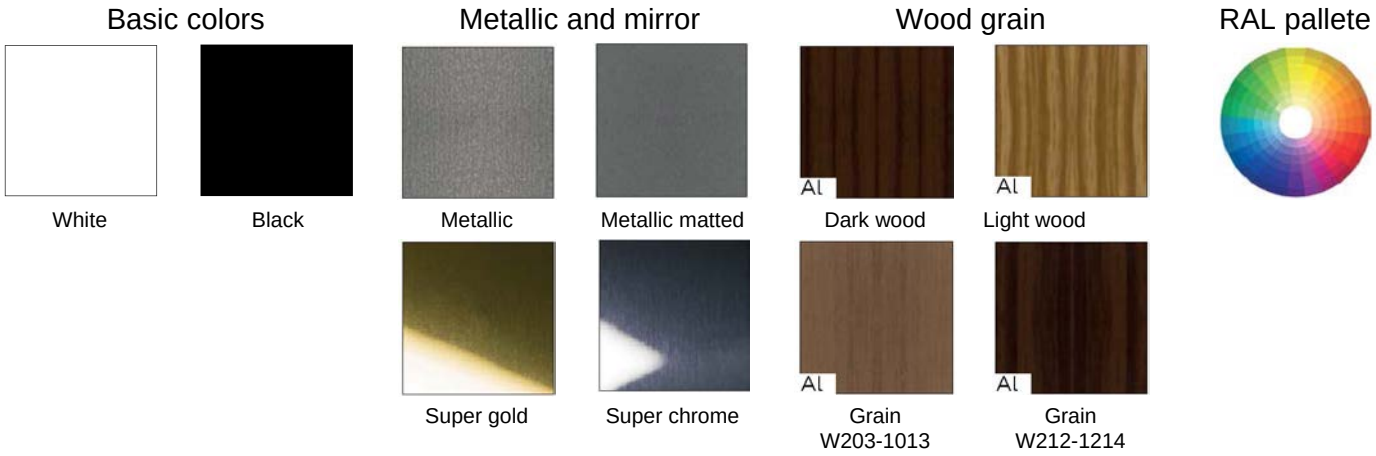
Grill size	Height of female, male profiles	Width of the visible part of the profiles (base), B	Manufacture material
600x600 mm	30/40/50 mm	5/10 mm	AL 0.3-0.4 mm

SIZES OF CELLS IN THE GRILL



This type of ceiling is suitable for VALTONIX luminaires of the following types: UNIVERSAL LED Albes, ULTRA LIGHT LED, Pelin™ PIX

COLOR DESIGN *



* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

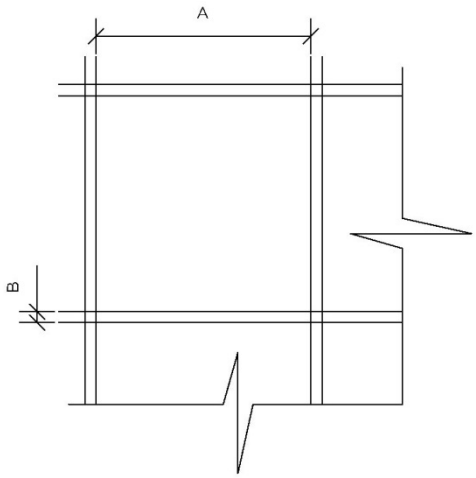
COMPLETE SET AND CONSUMPTION PER 1 M^2

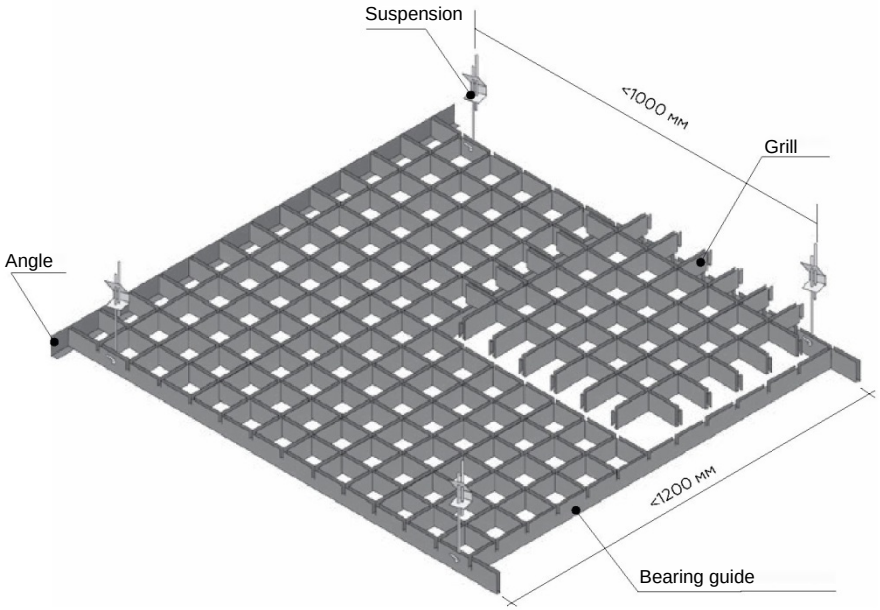
Cell size, mm (A)	Cell type size, mm (A+B)	Number of plates in the grill (female/male) 600 mm	Bearing guide No. 1 2400 mm	Bearing guide No. 2 1200 mm	Bearing guide No. 3 600 mm	PC connector	AP-G, universal
25x25	30x30*	19 un.	0.7 un.	-	2,78 un.	0.7 un.	1.85 set
40x40	50x50	11 un.	0.7 un.	-	2,78 un.	0.7 un.	1.85 set
50x50	60x60	9 un.	0.7 un.	-	2,78 un.	0.7 un.	1.85 set
65x65	75x75	7 un.	0.7 un.	-	2,78 un.	0.7 un.	1.85 set
76x76	86x86	6 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
90x90	100x100	5 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
110x110	120x120	4 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
140x140	150x150	3 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
190x190	200x200	2 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set

Only in base 5 mm

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

GRILIATO IRREGULAR CELL





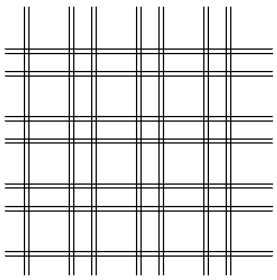
A - cell size
B -width of the visible part of the profiles (base),

TECHNICAL CHARACTERISTICS

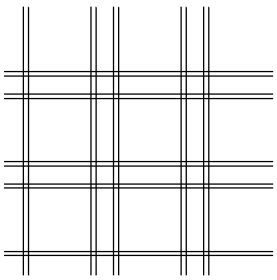
Grill size	Height of female, male profiles	Width of the visible part of the profiles (base), B	Manufacture material
600x600 mm 1200x1200 mm (Model 10)	30/40/50 mm	10 mm	AL 0.3-0.4 mm

GRILL MODELS

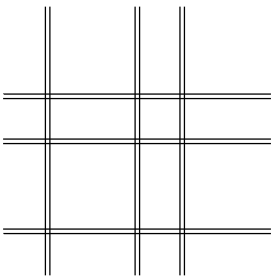
Model 1



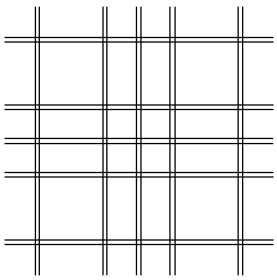
Model 2



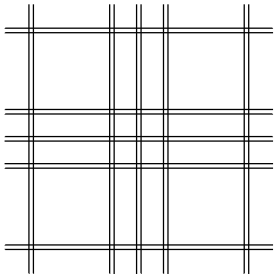
Model 3



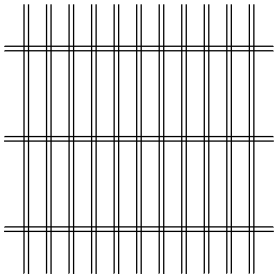
Model 4



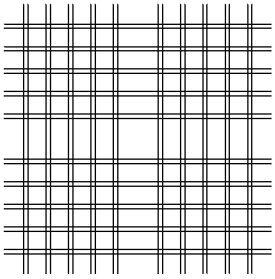
Model 5



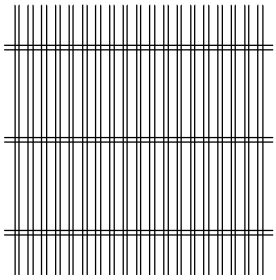
Model 6



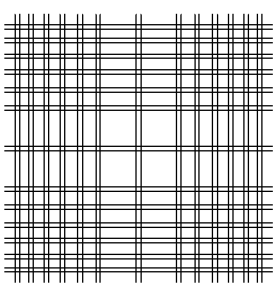
Model 7



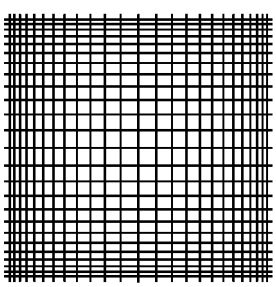
Model 8



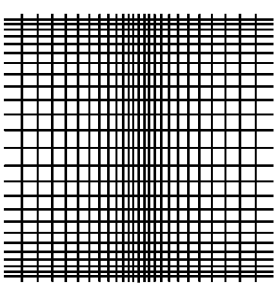
Model 9



Model 10-1

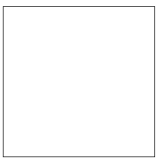


Model 10-2



COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

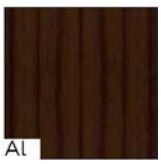
Metallic

Metallic matted

Super gold

Super chrome

Wood grain



Dark wood

Light wood

Grain W203-1013

Grain W212-1214

RAL pallete

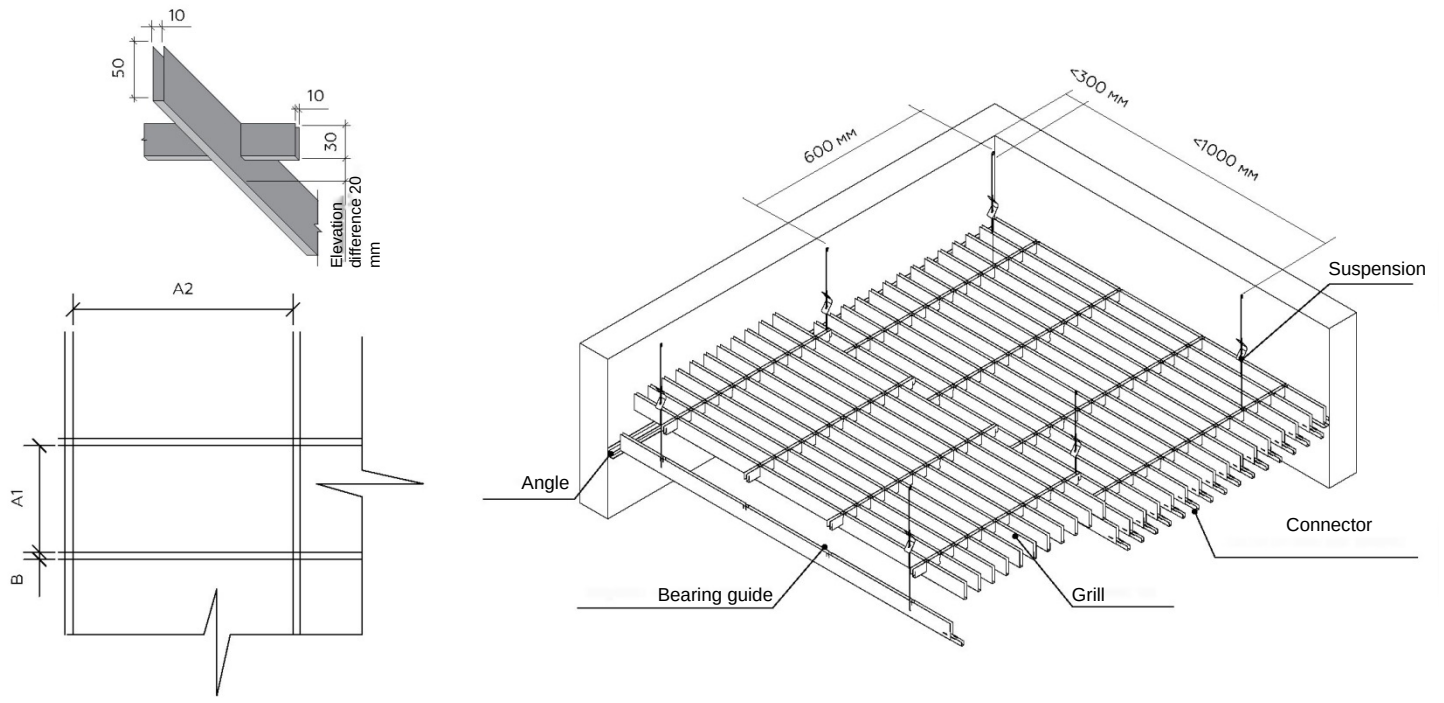
* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

COMPLETE SET AND CONSUMPTION PER 1 M2

Model	Number of female plates in grill 600 mm	Number of male plates in grill 600 mm	Bearing guide No. 1 2400 mm	Bearing guide No. 2 1200 mm	Bearing guide No. 3 600 mm	PC connector	AP-G, universal
Model 1	7 un.	7 un.	0.35 un.	1.39 un.	1.39 un.	0.7 un.	1.85 set
Model 2	5 un.	5 un.	0.35 un.	1.39 un.	1.39 un.	0.7 un.	1.85 set
Model 3	5 un.	5 un.	0.35 un.	1.39 un.	1.39 un.	0.7 un.	1.85 set
Model 4	5 un.	5 un.	0.35 un.	1.39 un.	1.39 un.	0.7 un.	1.85 set
Model 5	3 un.	3 un.	0.35 un.	1.39 un.	1.39 un.	0.35 un.	0.93 set
Model 6	12 un.	3 un.	0.35 un.	1.39 un.	1.39 un.	0.35 un.	0.93 set
Model 7	20 un.	3 un.	0.35 un.	1.39 un.	1.39 un.	0.35 un.	0.93 set
Model 8	10 un.	10 un.	0.35 un.	1.39 un.	1.39 un.	0.35 un.	0.93 set
Model 9	13 un.	13 un.	0.35 un.	1.39 un.	1.39 un.	0.35 un.	0.93 set
Model 10	12 un.	12 un.	0.35 un.	0.7 un.	-	0.35 un.	0.93 set

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

GRILIATO SHUTTERS

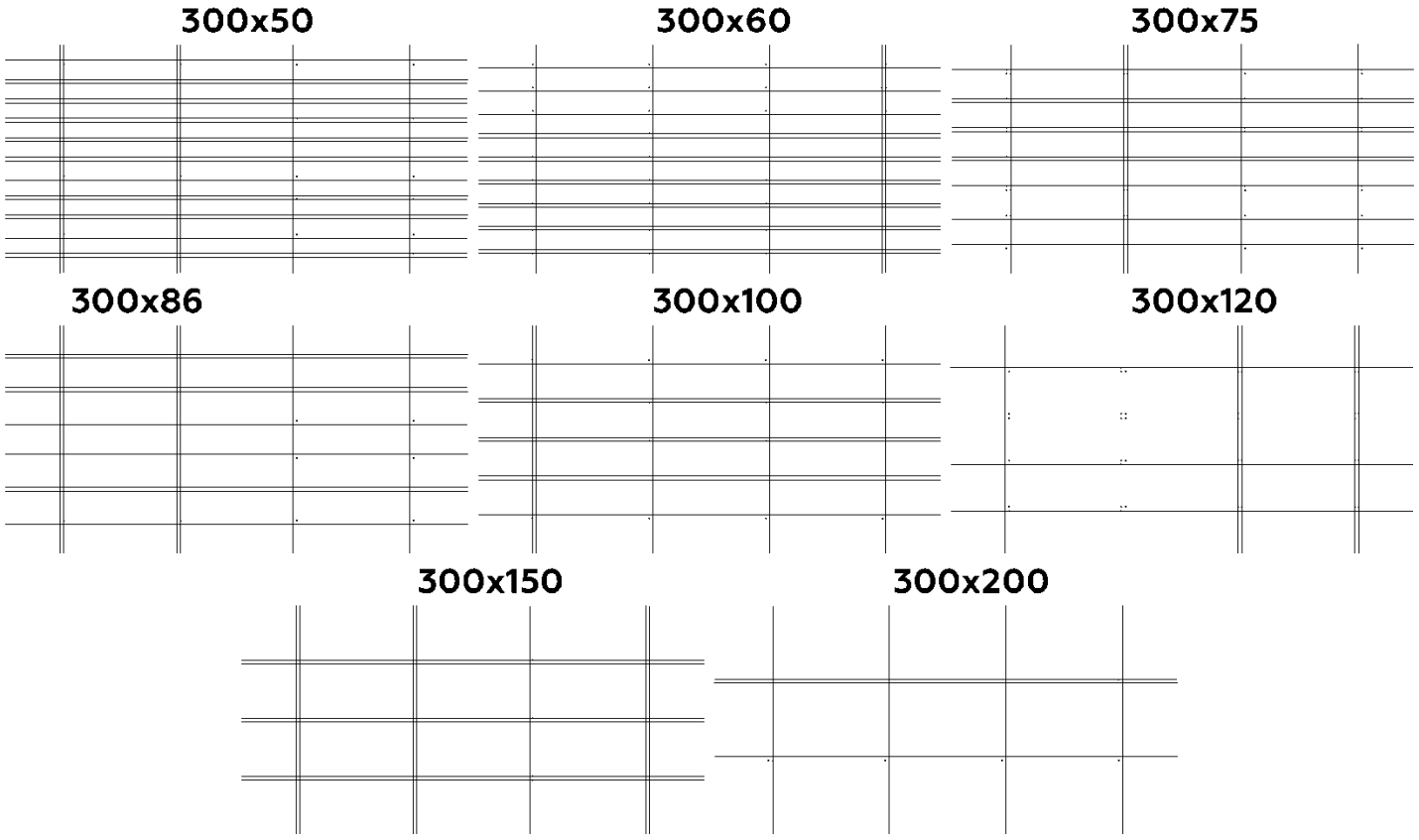


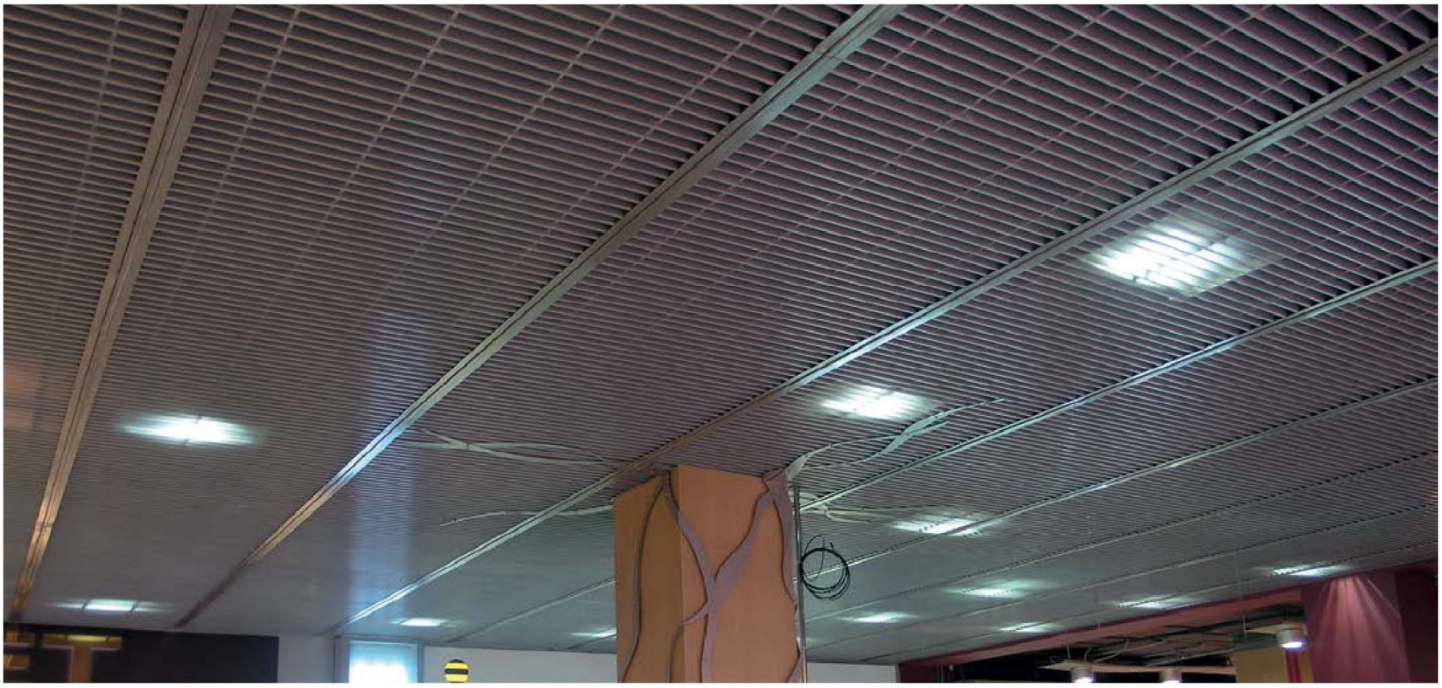
A - cell size
B -width of the visible part of the profiles (base),

TECHNICAL CHARACTERISTICS

Grill size	Height of female profiles	Height of male profiles	Width of the visible part of the profiles (base), C	Manufacture material
600x1200 mm	50 mm	30 mm	10 mm	AL 0.3-0.4 mm

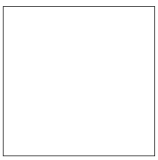
SIZES OF CELLS IN THE GRILL





COLOR DESIGN *

Basic colors


White


Black

Metallic and mirror


Metallic


Metallic matted


Super gold

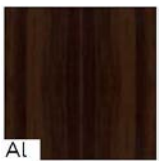

Super chrome

Wood grain


Dark wood


Light wood


Grain W203-1013


Grain W212-1214

RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

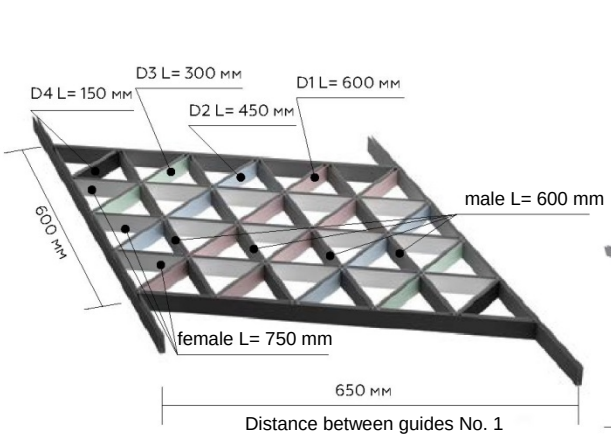
COMPLETE SET AND CONSUMPTION PER 1 M^2

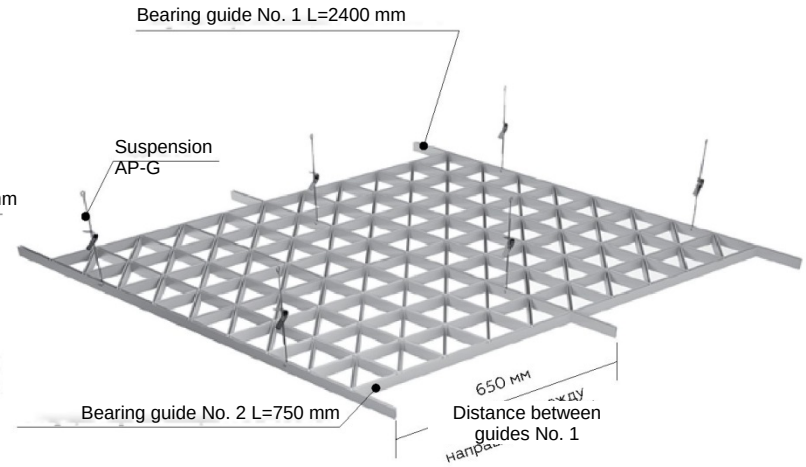
Cell size, mm (AxB)	Cell type size, mm (AxB)+C	Number of female plates in grill 1200 mm	Number of male plates in grill 600 mm	Bearing guide		PC connector	AP-G, universal
				2400 mm	1200 mm*		
290x40	300x50	11 un.	4 un.	0.70 un.	1.39 un.	according to calculation	2.78 set
290x50	300x60	9 un.	4 un.	0.70 un.	1.39 un.	according to calculation	2.78 set
290x65	300x75	7 un.	4 un.	0.70 un.	1.39 un.	according to calculation	2.78 set
290x76	300x86	6 un.	4 un.	0.70 un.	1.39 un.	according to calculation	2.78 set
290x90	300x100	5 un.	4 un.	0.70 un.	1.39 un.	according to calculation	2.78 set
290x110	300x120	4 un.	4 un.	0.70 un.	1.39 un.	according to calculation	2.78 set
290x140	300x150	3 un.	4 un.	0.70 un.	1.39 un.	according to calculation	2.78 set
290x190	300x200	2 un.	4 un.	0.70 un.	1.39 un.	according to calculation	2.78 set

* Guides with a length of 1200 mm are used only for rooms with a width of no more than 1200 mm

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

TRIANGULAR GRILIATO GTA-150

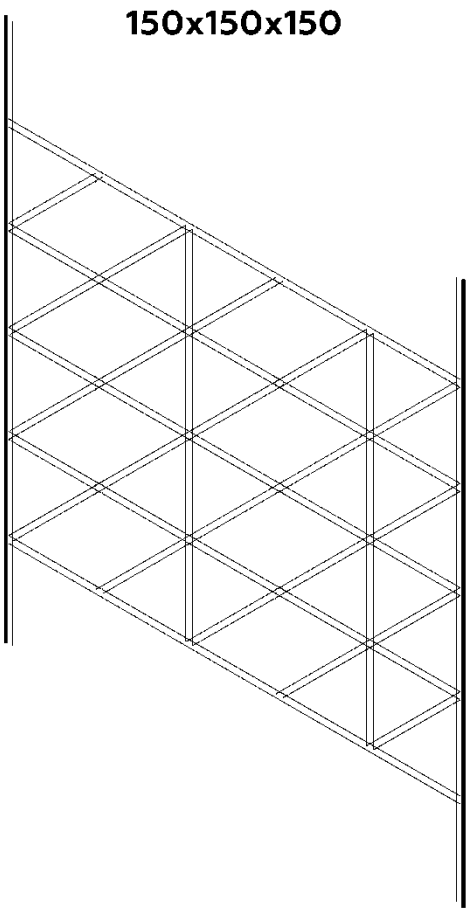




TECHNICAL CHARACTERISTICS

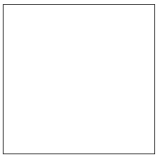
Grill size	Height of female, male profiles	Width of the visible part of the profiles (base)	Manufacture material
600x750 mm	40 mm	10 mm	AL 0.4-0.5 mm

SIZES OF CELLS IN THE GRILL



COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

Metallic

Metallic matted

Super gold

Super chrome

Wood grain

Dark wood

Light wood

Grain
W203-1013

Grain
W212-1214

RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

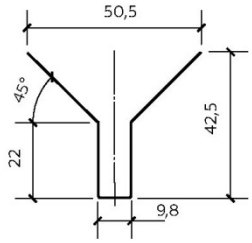
COMPLETE SET AND CONSUMPTION PER 1 M^2

Cell type size, mm	Number of female plates in grill, 750 mm	Number of male plates in grill, 600 mm	Diagonal element D1, 600 mm	Diagonal element D2, 450 mm	Diagonal element D3, 300 mm	Diagonal element D4, 150 mm
150x150x150	3 un.	4 un.	2 un.	2 un.	2 un.	2 un.
Bearing guide No. 1 L=2400 mm		**Bearing guide No. 2 L=750 mm**		**Connector PG**		**AP-G, universal**
0.65 un.		2.57 un.		0.65 un.		1.54 set

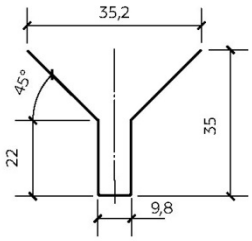
The system is equipped with RPP 40 framing profile if the ends of grilles are adjacent to the wall. The quantity is calculated according to the design.

PYRAMIDICAL GRILIATO

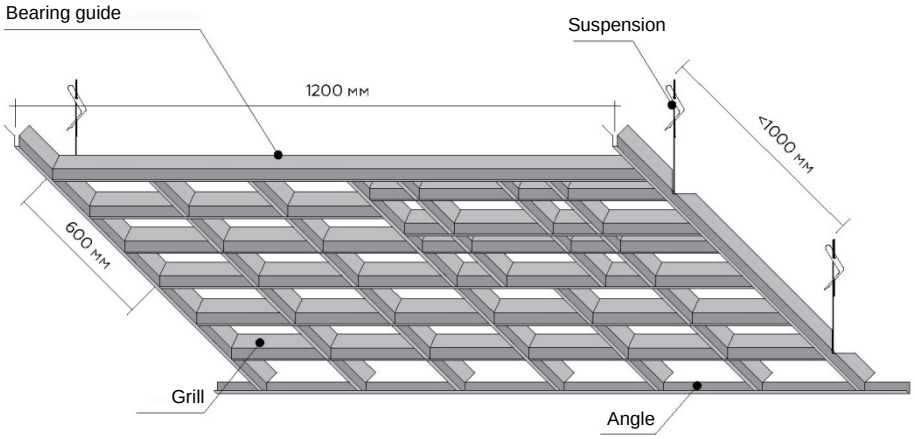
Profile sections



with a height of 42.5 mm



with a height of 35 mm

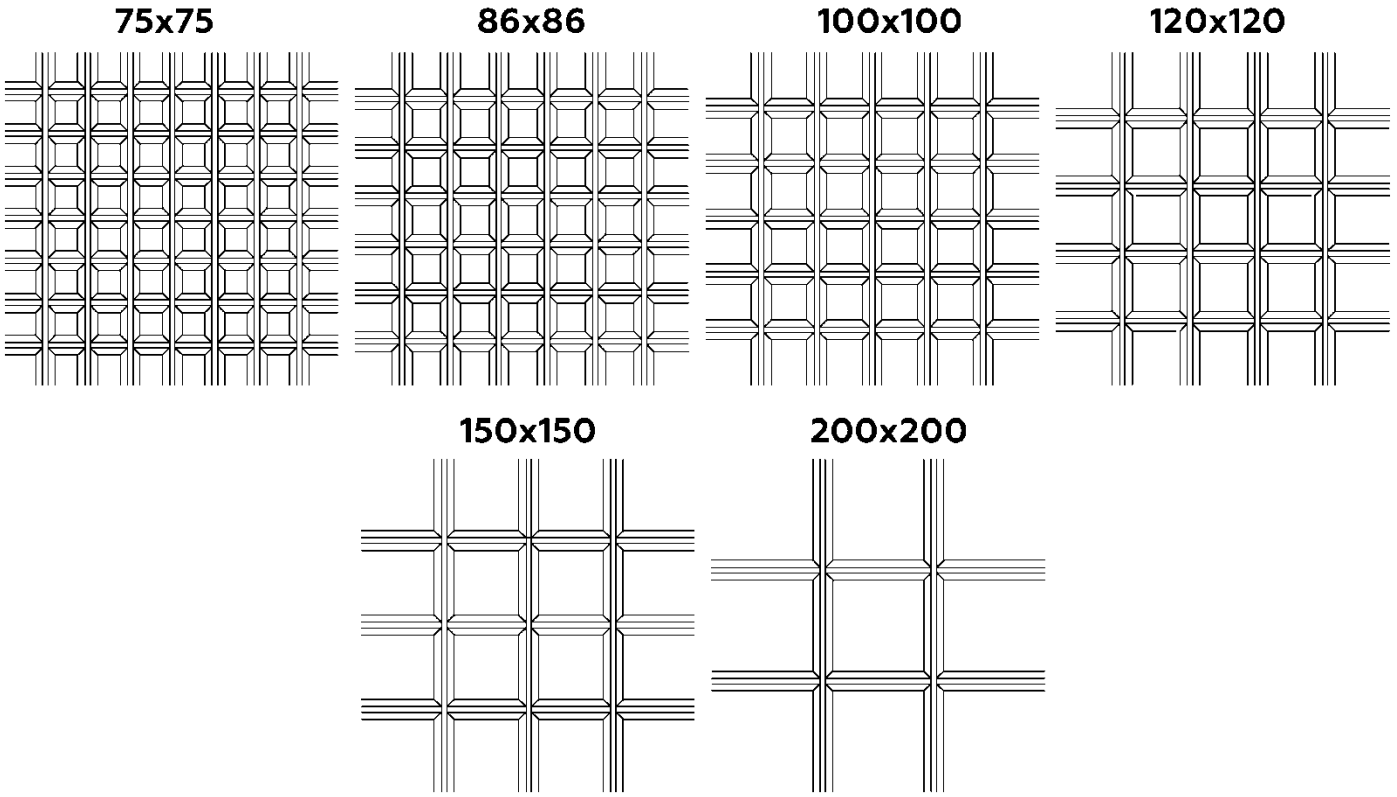


A - cell size
B -width of the visible part of the profiles (base),

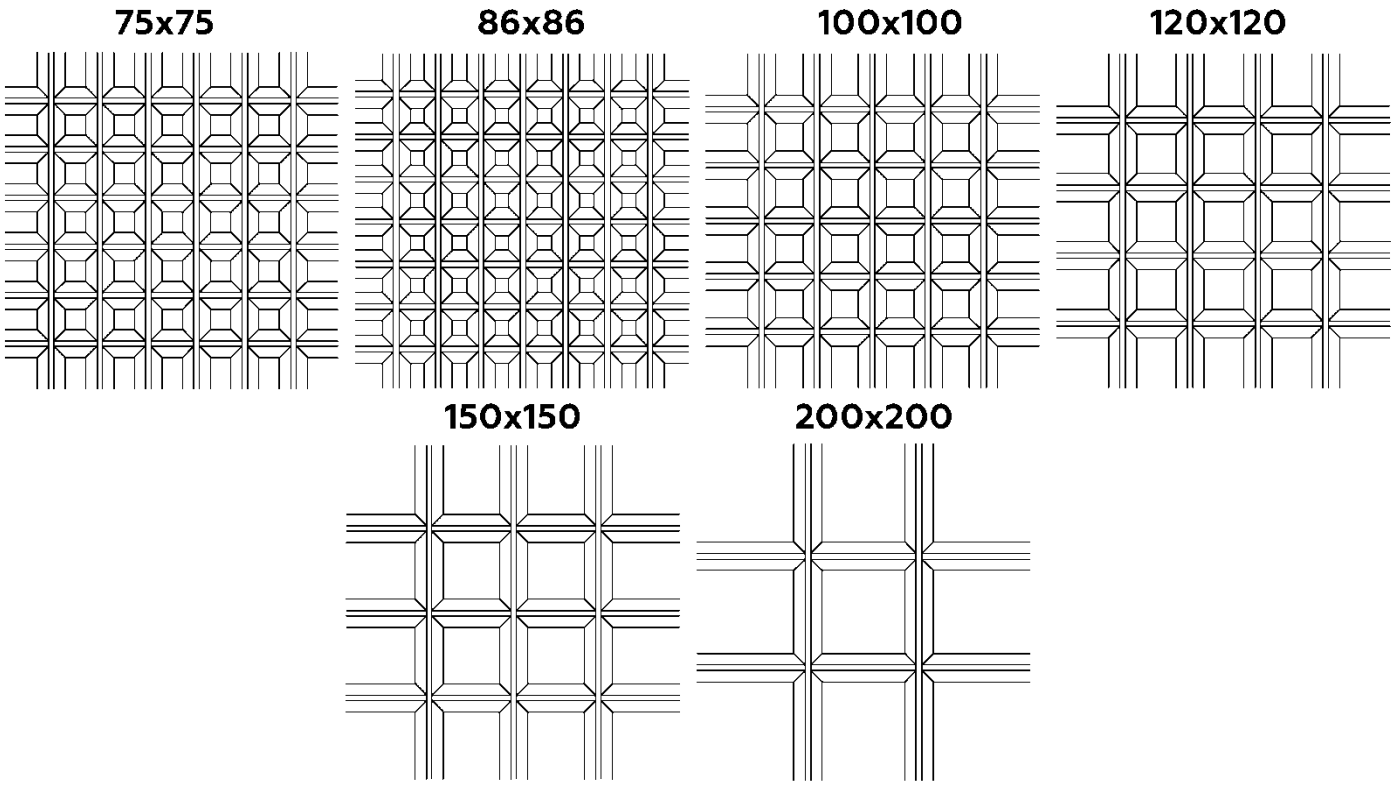
TECHNICAL CHARACTERISTICS

Grill size	Height of female, male profiles	Width of the visible part of the profiles (base), B	Manufacture material
600x600 mm	35/42.5 mm	10 mm	AL 0.3-0.4 mm

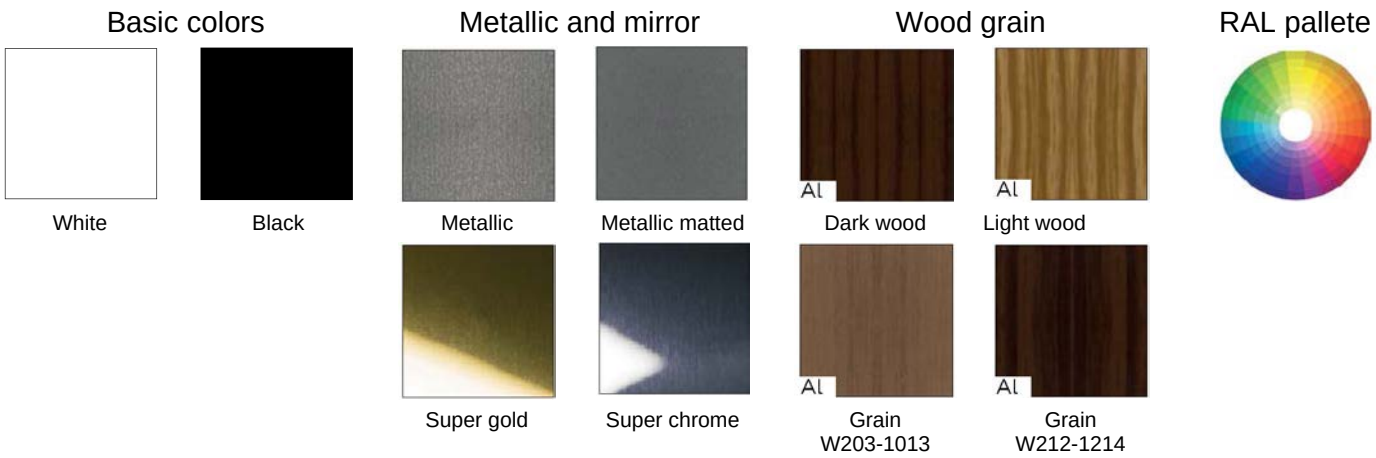
GRILL CELL TYPE SIZES WITH PROFILE HEIGHT OF 35 MM



GRILL CELL TYPE SIZES WITH PROFILE HEIGHT OF 42.5 MM



COLOR DESIGN *



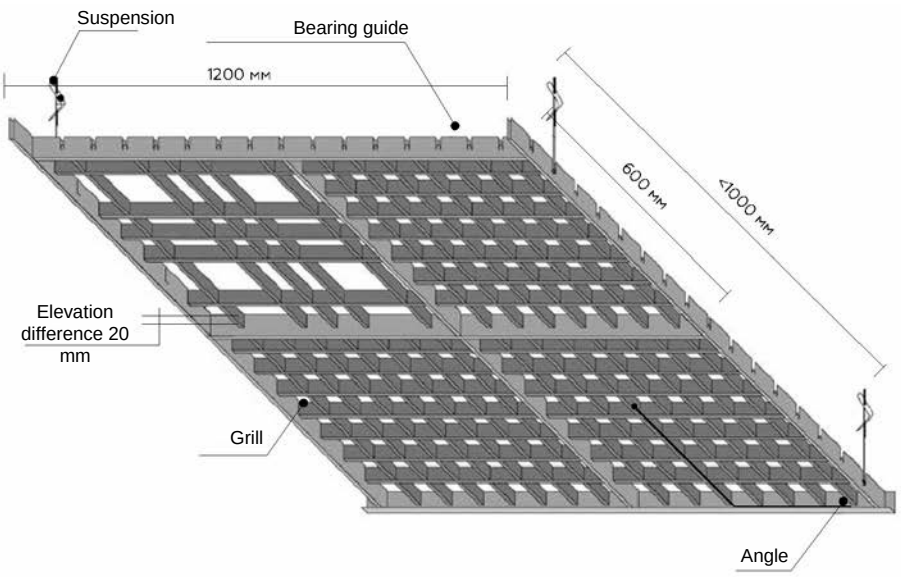
* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

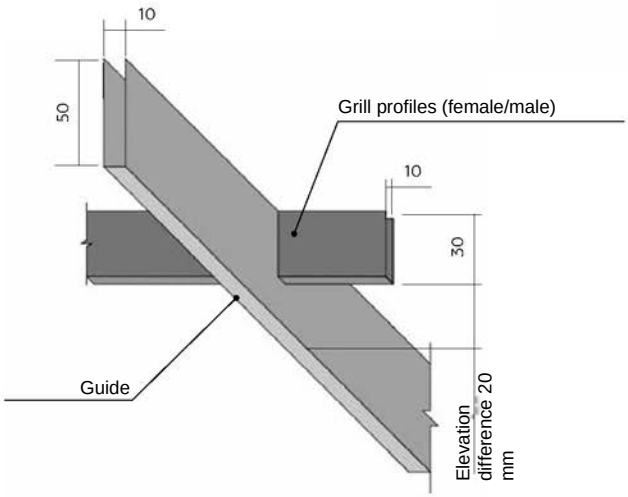
COMPLETE SET AND CONSUMPTION PER 1 M^2

Cell size, mm (A)	Cell type size, mm (A+B)	Number of plates in the grill (female/male) 600 mm	Bearing guide No. 1 2400 mm	Bearing guide No. 2 1200 mm	Bearing guide No. 3 600 mm	PC connector	AP-G, universal
60	75x75	7 un.	0.7 un.	-	2,78 un.	0.7 un.	1.85 set
71	86x86	6 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
85	100x100	5 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
105	120x120	4 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
135	150x150	3 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
185	200x200	2 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

"SPLIT LEVEL" GRILIATO



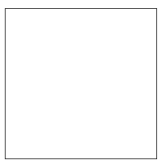


TECHNICAL CHARACTERISTICS

Grill size	Height of female, male profiles	Height of guide profiles	Width of the visible part of the profiles (base)	Manufacture material
600x600 mm	30 mm	50 mm	10 mm	AL 0.3-0.4 mm

COLOR DESIGN *

Basic colors


White

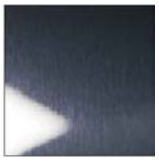

Black

Metallic and mirror

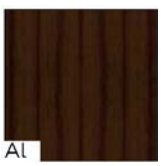

Metallic


Metallic matted


Super gold


Super chrome

Wood grain



Dark wood

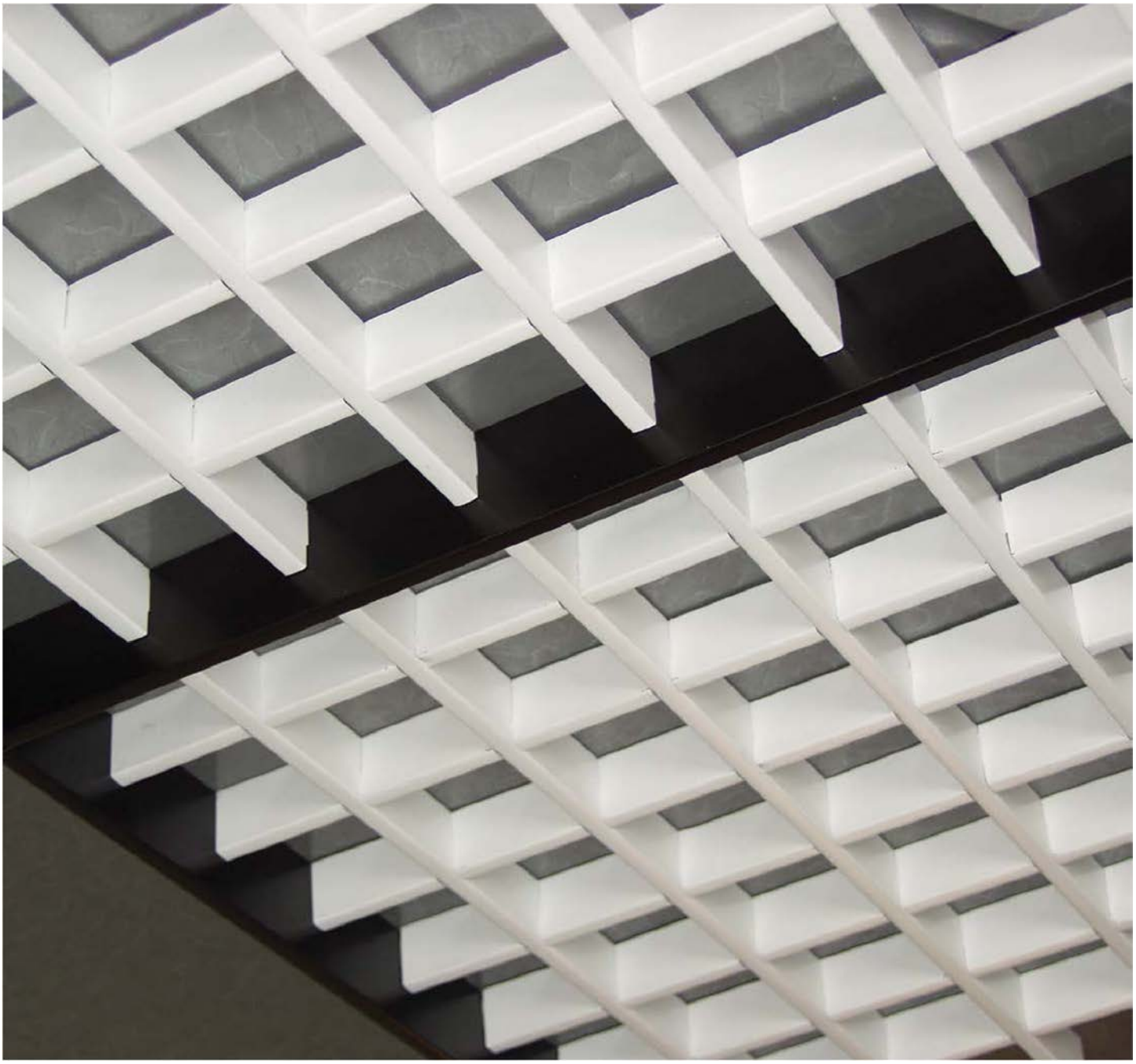
Light wood

Grain W203-1013

Grain W212-1214

RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.



COMPLETE SET AND CONSUMPTION PER 1 M^2

Cell type size, mm	Number of plates in the grill (female/male) 600 mm	Bearing guide No. 1 2400 mm	Bearing guide No. 2 1200 mm	Bearing guide No. 3 600 mm	PC connector	AP-G, universal
50x50	11 un.	0.7 un.	-	2,78 un.	0.7 un.	1.85 set
60x60	9 un.	0.7 un.	-	2,78 un.	0.7 un.	1.85 set
75x75	7 un.	0.7 un.	-	2,78 un.	0.7 un.	1.85 set
86x86	6 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
100x100	5 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
120x120	4 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
150x150	3 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set
200x200	2 un.	0.35 un.	1.39 un.	1.39 un.	0.35 uns.	0.93 set

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

CASSETTE SUSPENDED CEILINGS

A relatively large area for applying a decorative coating makes the cassette ceiling a winning solution when creating a uniquely designed ceiling. Additionally, this ceiling can be decorated with variations in the method of finishing the metal: perforation, laser cutting or using a PVA mesh.

According to the updated requirements of SanPin in relation to medical institutions, it is this type of suspended ceiling that is suitable for finishing "clean" rooms, due to the possibility of rigid fastening of panels with clips.

Using adjustable suspensions, the suspended ceiling is attached to the load-bearing building structures. Offset from the rough ceiling can be at any level specified in the design project.

It is not allowed to use cassette suspended ceilings outside.

The ceiling kit on the open suspension system includes:

- T-shaped bearing guides with a length of 3.7 m;
- T-shaped cross-profiles with a length of 1.2, 0.6 m;
- Panel;
- Perimetral profile;
- Adjustable suspensions: AP/euro-suspension/universal suspension/nonius suspension.

The ceiling kit on the hidden suspension system includes:

- Bearing profile BT-600;
- Panel;
- Perimetral profile;
- Adjustable suspensions: AP/euro-suspension/universal suspension/nonius suspension.

Non-aggressive Mildly aggressive moderately aggressive
(SP 28.13330.2017)

Combustibility NG, G1*

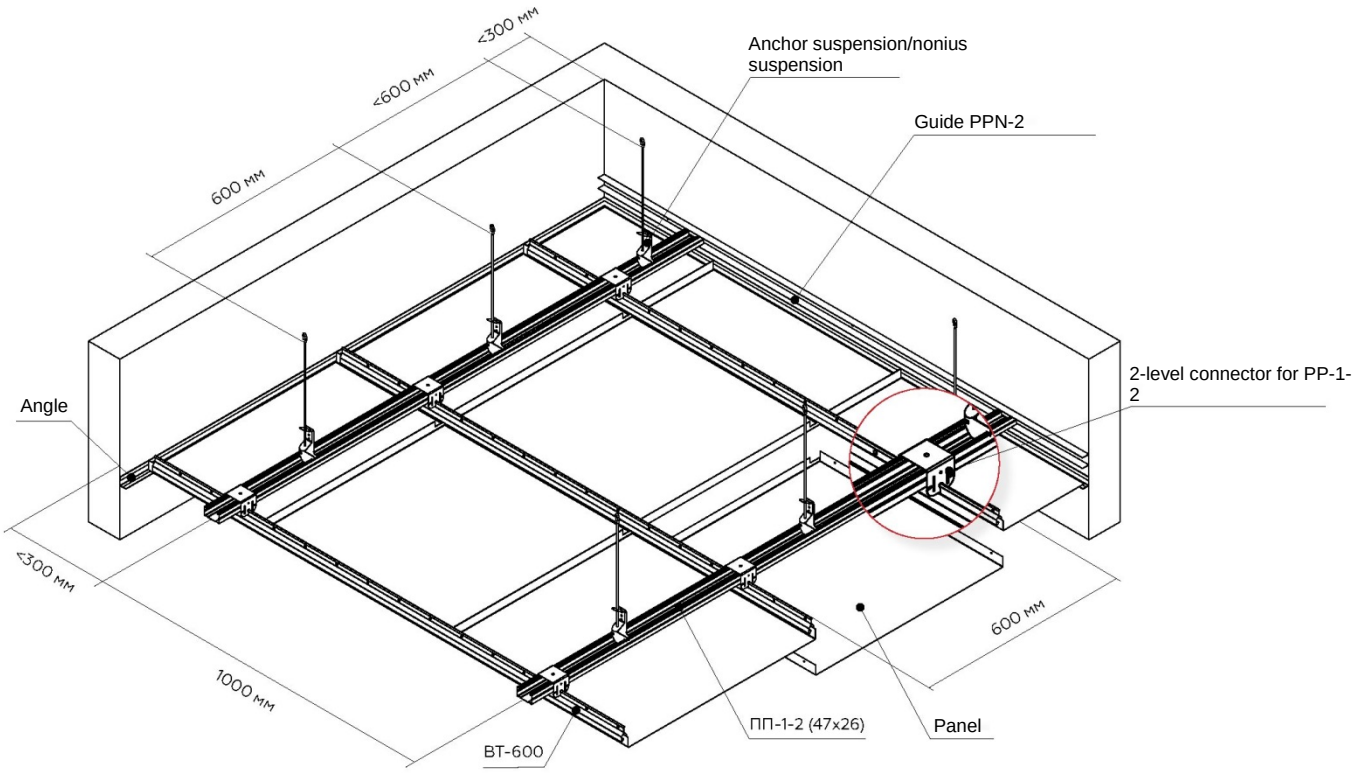
< +90°C

Dry
Wet
Normal
(SP 50.13330.2012)

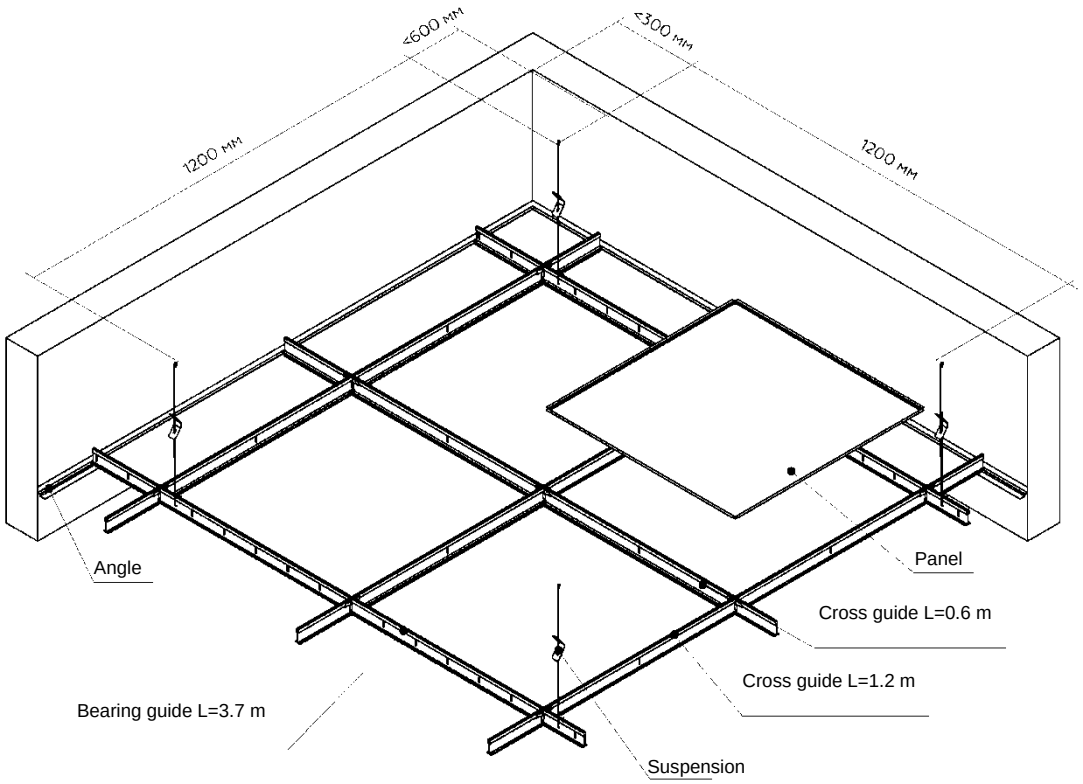
* In accordance with valid certificates

BASIC ASSEMBLY DIAGRAM

Cassette ceiling with AC* edge on hidden suspension system (enhanced installation system)



Cassette ceiling on open suspension system T-24/T-15*



*AC - Albes hidden

SUMMARY TABLE

Type of ceiling		System brand	Product name	Product brand	Module	Manufacture material			Perforation types
						A1	Galvanized steel	PVA	
Panels	With open suspension system	Rectangular raised edge (type BOARD)	Panel	AP300 BOARD	300x300	0.4-0.58	0.3-0.5	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP300x600O BOARD	300x600	0.4-0.58	0.3-0.5	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP300x1200 BOARD	300x1200	0.58	0.5	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP600 BOARD	600x600	0.4-0.58/ 0.78	0.3-0.5	ST10	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP600x1200 BOARD	600x1200	0.78	0.5-0.7	-	AL Fd=1.5/3 Zn Fd=1.5/3
			Suspension system	T-24 PRIM Line, T-15 PRIM, STRUNA					
			Suspension	AP, universal, EURO, nonius-suspension					
			Angle	PL					
		Rectangular single-level edge (type LINE)	Panel	AP 600 Line	600x600	0.3-0.6	0.4	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
			Suspension system	T-24, T-15					
			Suspension	AP, universal, EURO, nonius-suspension					
			Angle	PL, PLL					
		Rectangular edge 90° with descent (type TEGULAR)	Panel	AP300A6/900	300x300	0.4-0.58	0.3-0.5	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP300A8/900	300x300	0.4-0.58	0.3-0.5	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP300x600A6/90°	300x600	0.4-0.58	0.3-0.5	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP300x600A8/90°	300x600	0.4-0.58	0.3-0.5	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP600A6/900	600x600	0.4-0.58	0.3-0.5	ST10	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP600A8/900	600x600	0.4-0.58	0.3-0.5	ST10, ST20	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP300x1200A6/90°	300x1200	0.58	0.5-0.7	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP300x1200A8/90°	300x1200	0.58	0.5-0.7	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP600x1200A6/90°	600x1200	0.58-0.78	0.5-0.7	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP600x1200A8/90°	600x1200	0.58-0.78	0.5-0.7	-	AL F d=0.75/1.5/3 Zn Fd=1.5/3
			Suspension system	T-24, T-15, STRUNA					
			Suspension	AP, universal, EURO, nonius-suspension					
			Angle	PLL					
		Bevele edge 45° with descent (type TEGULAR)	Panel	AP600A6/450	600x600	0.4-0.58	0.3-0.5	ST10, Q8, R16	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP600A8/450	600x600	0.4-0.58	0.3-0.5	ST10, Q8, R16	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
			Suspension system	T-24, T-15					
			Suspension	AP, universal, EURO, nonius-suspension					
			Angle	PLL					
	With hidden suspension system	AC edge (Albes hidden)	Panel	AP300AC	300x300/45°	0.4-0.58	0.4-0.6	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP300x600 AC	300x600/45°	0.4-0.58	0.6	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP300x1200AC	300x1200/45°	0.4-0.58	0.4-0.5/0.6	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP600AC	600x600/45°	0.4-0.58	0.4-0.5/0.6	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
				AP600x1200AC/90°	600x1200/90°	0.58-0.78	0.5-0.6	-	AL F d=0.75/1.5/3 Zn F d=0.75/1.5/3
			Bearing profile	BT-600					
			Galvanized profile	PP-1-2 (47x26)					
			Galvanized profile	PPN-2 (30x20)					
			2-level connector	for PP-1-2					
			Suspension	Anchor for PP-1-2, nonius-suspension					
			Angle	PL					

CASSETTE CEILING ON OPEN SUSPENSION SYSTEM

NOTE

Panels for suspension systems T-15 and T-24 have different built-in sizes. When ordering panels, please specify the type of suspension system.

For ceiling panels with rectangular raised edge (Board type) it is necessary to use a butt-assembling (end-to-end) system (T-24 PRIM Line, T-15 Prim, T-15 ALBES STRUNA).

When using panels with a beveled 45° or rectangular 90° edge with descend, PLL angle shall be used. Except for the suspension system T-15 ALBES STRUNA.

In areas with active air flows, pressure clips are used for additional fixation of the panels.

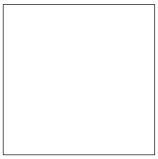
TECHNICAL CHARACTERISTICS

Type of the edge	Material and thickness, mm**			Perforation
	AL	Galvanized steel	PVA	
Beveled 45°/rectangular 90° edge with descend	0.3 -1.5	0.3 - 0.7	+	R1, R2, R3, R4, K45, K90, K1, K9
Rectangular raised edge	0.3 -1.5	0.3 - 0.7	+	R1, R2, R3, R4, K45, K90, K1, K9
Rectangular single-level edge	0.3 -1.5	0.3 - 0.7	+	R1, R2, R3, R4, K45, K90, K1, K9

* Thickness of the metal is selected individually depending on the type size of the cassette

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

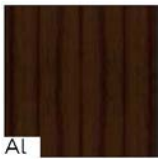
Metallic

Metallic matted

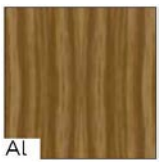
Super gold

Super chrome

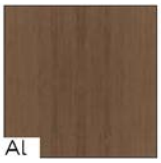
Wood grain



Dark wood



Light wood



Grain
W203-1013

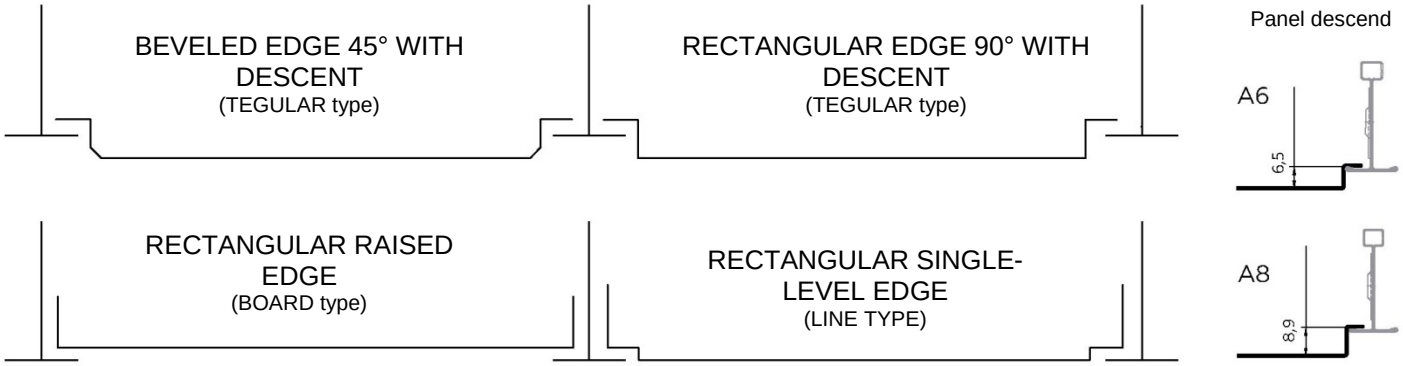
Grain
W212-1214

RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

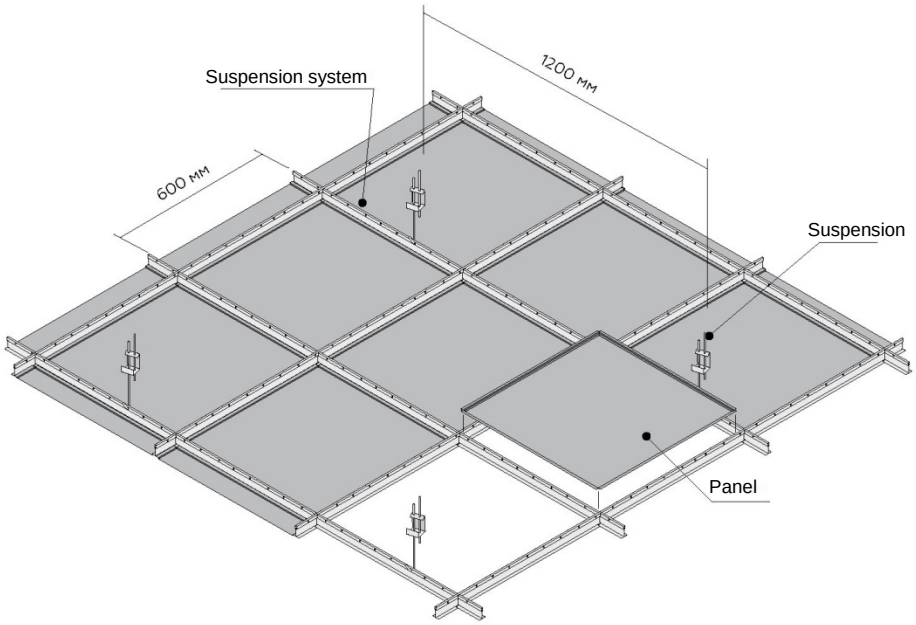
For perforation pattern refer to page 120

TYPES OF EDGES



Pressure clip

PL angle with locks



COMPLETE SET AND CONSUMPTION PER 1 M^2

Type of the edge	Product brand	Panel module, mm	Panel, un	Bearing profile 3700 mm	Cross profile 1200 mm	Cross profile 600 mm	Cross profile 300 mm	AP, EURO, universal, nonius suspension
Beveled 45°/rectangular 90° edge with descent	AP 300A6(A8)/90°	300x300	11.11	1.67 lin. m.	-	3.33 lin. m.	1.67 lin. m.	1.39 set
	AP 300x600A6(A8)/90°	300x600	5.56	0.83 lin. m.	1.67 lin. m.	2.5 lin. m.	-	0.83 set
	AP 300x1200A6(A8)/90°	300x1200	2.78		3.33 lin. m.	-	-	
	AP 600A6(A8)/90° (45°)	600x600	2.78		1.67 lin. m.	0.83 lin. m.	-	
	AP 600x1200A6(A8)/90°	600x1200	1.39		1.67 lin. m.	-	-	
Rectangular raised edge	AP 300 BOARD	300x300	11.11	1.67 lin. m.	-	3.33 lin. m.	1.67 lin. m.	1.39 set
	AP 300x600 BOARD	300x600	5.56	0.83 lin. m.	1.67 lin. m.	2.5 lin. m.	-	0.83 set
	AP 300x1200 BOARD	300x1200	2.78		3.33 lin. m.	-	-	
	AP 600 BOARD	600x600	2.78		1.67 lin. m.	0.83 lin. m.	-	
	AP 600x1200 BOARD	600x1200	1.39		1.67 lin. m.	-	-	
Rectangular single-level edge	AP 600 LINE	600x600	2.78	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	-	0.83 set

The system is equipped with angles PL 19x24 (PL 25x25 with a lock) or PLL, if panel ends are adjacent to the wall. The quantity is calculated according to the design.

This type of ceiling is suitable for VALTONIX luminaries of the following types:
UNIVERSAL LED Albes, ULTRA LIGHT LED

CASSETTE CEILING ON HIDDEN SUSPENSION SYSTEM

The panel is attached to the guides (bearing profile BT-600) by snapping. The subsequent panel is installed butt to the previous one, so the bearing frame is closed by the panels themselves. Depending on the area of the room, fastening of cassette ceilings with AC edge can be performed by a simple or enhanced method of installation. For small rooms with dimensions of less than 4x4 m, simple installation can be used.

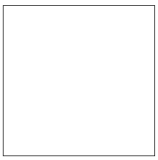
TECHNICAL CHARACTERISTICS

Type of the edge	Material and thickness, mm**			Perforation
	AL	Galvanized steel	PVA	
AC edge (Albes hidden)	0.4 - 0.58	0.4 - 0.6	—	R1, R2, R3, R4, K45, K90, K1, K9

* Thickness of the metal is selected individually depending on the type size of the cassette

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

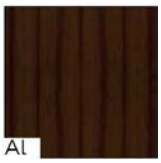
Metallic

Metallic matted

Super gold

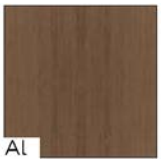
Super chrome

Wood grain



Dark wood

Light wood



Grain
W203-1013

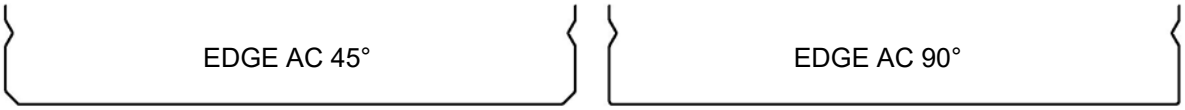
Grain
W212-1214

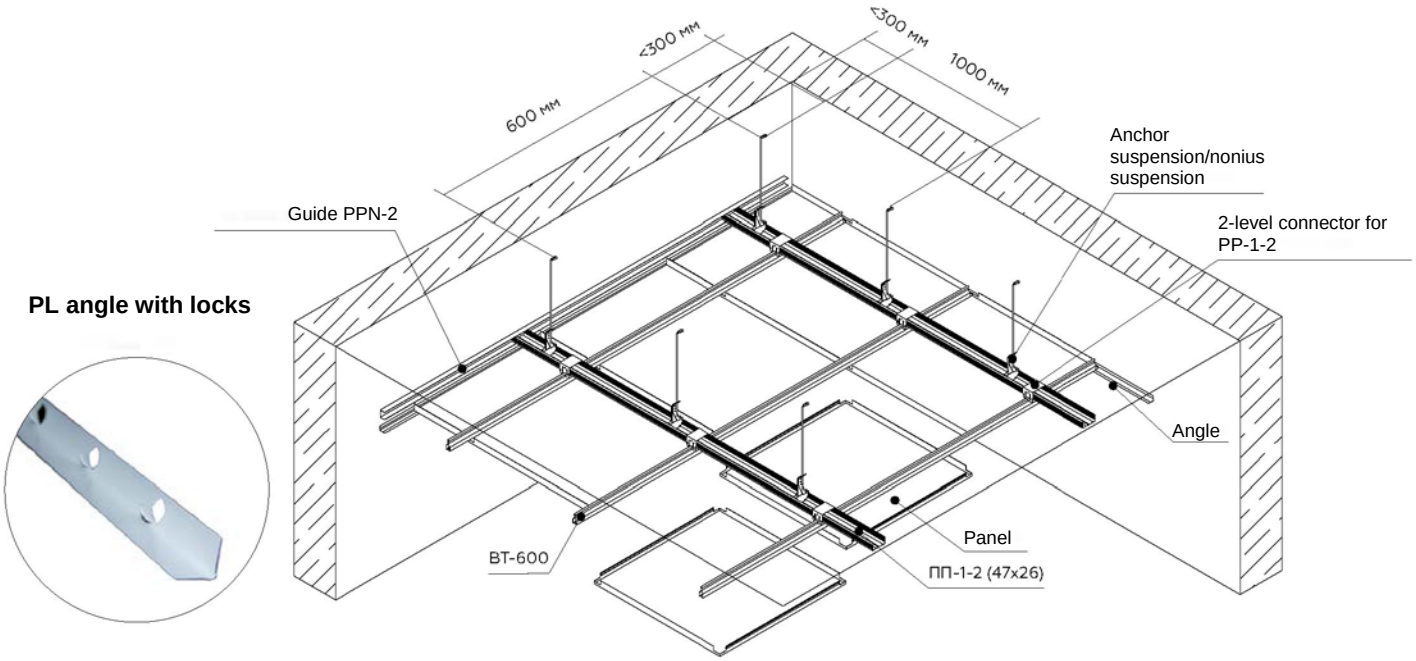
RAL pallete

* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

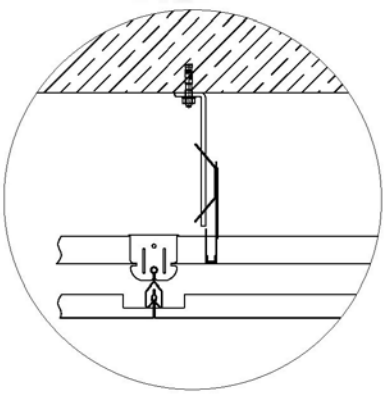
For perforation pattern refer to page 120

TYPES OF EDGES

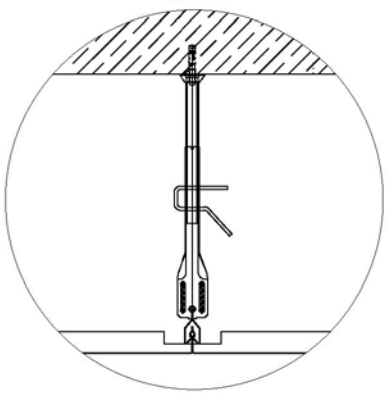




Enhanced installation



Simple installation



COMPLETE SET AND CONSUMPTION PER 1 M^2

Product brand	Panel module, mm	Panel, un	BT-600	Profile PP-1-2 (47x26)	Profile PPN-2 (27x28)	Two-level connector for PP-1-2	Anchor suspension	Suspension rod
AP 300 AC	300x300	11.11	3.33 lin. m.	1 lin. m.	according to calculation	3.33 un.	1.67 un.	1.67 un.
AP 300x600 AC	300x600	5.56	3.33 lin. m.			3.33 un.		
AP 300x1200 AC	300x1200	2.78	3.33 lin. m.			3.33 un.		
AP 600 AC	600x600	2.78	1.67 lin. m.			1.67 un.		
AP 600x1200 AC*	600x1200	1.39	1.67 lin. m.			1.67 un.		

The system is equipped with angles PL19x24 or PLL, if grill ends are adjacent to the wall. The quantity is calculated according to the design.

This type of ceiling is suitable for VALTONIX luminaries of the following types:
UNIVERSAL LED Albes**, ULTRA LIGHT LED**

* Panel with edge 90°

** Luminaire installed in the cell of the ceiling frame protrudes below the ceiling level.

CORRIDOR PANELS

Corridor panels are rectangular elements fixed directly to the perimeter profile, this type of fastening allows installing any ceiling height. The long side of the panels does not exceed 2.5 meters, which makes this type of ceiling a functional and budgetary solution for disigning a corridor or other narrow room.

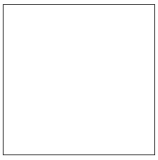
TECHNICAL CHARACTERISTICS

Type of the edge	Width, mm (A)	Length, mm (B max)	Rustic, mm (C)	Height, mm (H)	Material and thickness, mm**		
					AL	Galvanized steel	PVA
PK - 400	400	up to 2000	—	39	—	0.5	—
PK - 400	400	up to 2500	—	39	—	0.6	—
PK - 400 P	388	up to 2000	12	39	—	0.5	—
PK - 400 P	388	up to 2500	12	39	—	0.6	—

Metal thickness is selected individually depending on the required maximum length of the panels.

COLOR DESIGN *

Basic colors



White

Black

Metallic and mirror

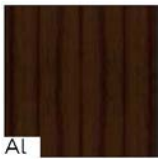
Metallic

Metallic matted

Super gold

Super chrome

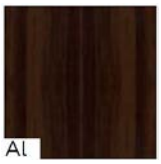
Wood grain



Dark wood

Light wood

Grain
W203-1013



Grain
W212-1214

RAL pallete

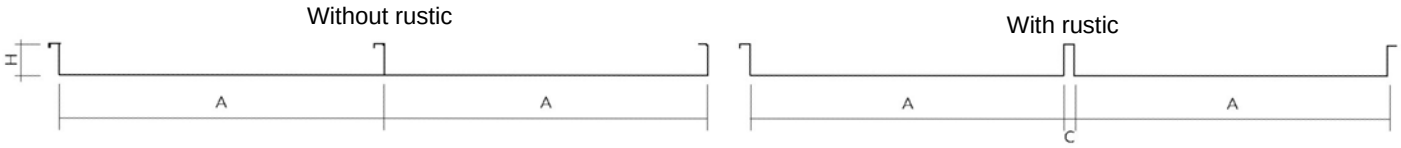
* A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

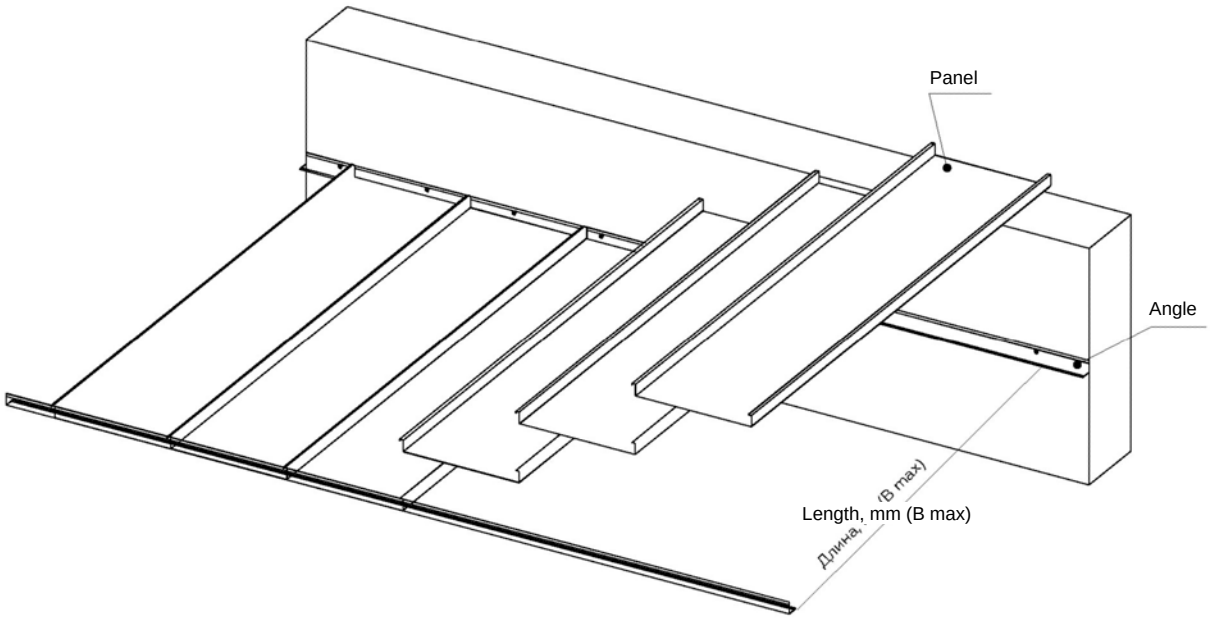
COMPLETE SET AND CONSUMPTION PER 1 M^2

Type of the edge	Product brand	Module, panel area m2	Panel	Angle PL40x40/PL 50x50/PLL
Without rustic	PK-400	400xB (AxB*)	2.5 un.	2 lin. m.
With rustic	PK - 400 R	388+12xB (A+CxB*)	2.5 un.	2 lin. m.

* The length (B) of the panel is selected according to the width of the corridor.

TYPES OF EDGES





SUSPENDED SYSTEMS, T -PROFILE

NOTE

When using ceilings on a suspension system in rooms with high humidity, there is a number of requirements that are binding on:

1. Using nonius-suspension only;
   Steel ceiling panels and suspension systems shall be additionally powder painted.

These measures together allow achieving high corrosion resistance and durability of the decorative coating.

It is forbidden to use suspension systems T-24 Albes, T-24 Norma, T-24 E, in rooms with high humidity!

Suspension system T-profile kit includes:

- T-shaped bearing guides with a length of 3.7 m;
- T-shaped cross-profiles with a length of 1.2 and 0.6 m;
- Perimetral profile;
- Adjustable suspensions: AP/euro-suspension/universal suspension/nonius suspension.

Non-aggressive Mildly aggressive moderately aggressive
(SP 28.13330.2017)

Combustibility NG, G1*

< +90°C

Dry
Wet
Normal
(SP 50.13330.2012)

* In accordance with valid certificates

RANGE OF SUSPENSION SYSTEMS T-PROFILE

Name of the system	Width of the visible part of the profile, mm	Type of joint	Manufacture material	Lock type	Profile sizes	Color design	Bearing capacity*, kg/m^2	Availability of fire expansion joint
T-15 ALBES STRUNA	14.5	Butt	Steel with protective coating	Separately riveted locks SYSK made of spring steel	L=3.6 14.5/41.5 L=1.2 14.5/41.5 L=0.6 14.5/41.5	White matt Black Metallic	15	+
T-24 CLICK PRIM	24	Overlapped	Steel with protective coating	Separately riveted locks SYSK made of spring steel	L=3.7 24/38 L=1.2 24/38 L=0.6 24/38 L=3.7 24/38 L=1.2 24/38 L=0.6 24/29	All colors RAL	15	+
					L=3.7 24/38 L=l,2 24/29 L=0.6 24/29	All colors RAL	14.5	+
T-24 ALBES EURO	24	Overlapped	Steel with protective coating	Massive cut locks	L=3.7 24/38 L=l,2 24/29 L=0.6 24/29 L=0.3 24/29	All colors RAL	13.5	+
T-24 PRIM Line	24	Butt	Steel with protective coating	Hooked massive cut locks	L=3.7 24/38 L=1.2 24/38 L=0.6 24/38 L=0.3 24/38	All colors RAL	13.5	+
T-15 PRIM	15	Butt	Steel with protective coating	Hooked massive cut locks	L=3.7 15/38 L=l,2 15/38 L=0.6 15/38 L=0.3 15/38	All colors RAL	13.5	+
				Massive cut locks	L=3.7 15/38 L=l,2 15/29 L=0.6 15/29 L=0.3 15/29	All colors RAL	12	+
T-15/38 GL-15	15	Butt	Steel with protective coating	Hooked massive cut locks	L=3.7 15/38 L=l,2 15/38 L=0.6 15/38 L=0.3 15/38	All colors RAL	8	+
T-15 Albes	15	Overlapped	Steel with protective coating	Massive cut locks	L=3.7 15/38 L=l,2 15/29 L=0.6 15/29 L=0.3 15/29	All colors RAL	12	+
T-24 Albes Premier	24	Overlapped	Steel with protective coating	Massive cut locks	L=3.7 24/29 L=l,2 24/29 L=0.6 24/29	White matt Black Metallic Super gold Super chrome	9	+
T-24 Albes	24	Overlapped	Steel with protective coating	Massive cut locks	L=3.7 24/29 L=l,2 24/29 L=0.6 24/29	White matt Black Metallic Super gold Super chrome	8	+
T-24 NORMA	24	Overlapped	Steel with protective coating	Massive cut locks	L=3.7 24/29 L=l,2 24/25 L=0.6 24/18,5	White matt Black Metallic Super gold Super chrome	7	+
T-24 E	24	Overlapped	Steel with protective coating	Massive cut locks	L=3.7 24/25 L=l,2 24/21,5 L=0.6 24/18,5	White matt	4.3	-

The bearing capacity is given for assembly diagram No. 4. The bearing capacity was determined by the method of RPO Albes.
If necessary, the bearing capacity of the suspension system can be increased by applying a different installation diagram and increasing the number of suspensions used per 1 m2.

COLOR DESIGN **

Basic colors


White


Black


Metallic

Metallic and mirror effect


Metallic matted


Super gold

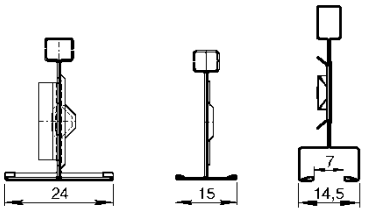
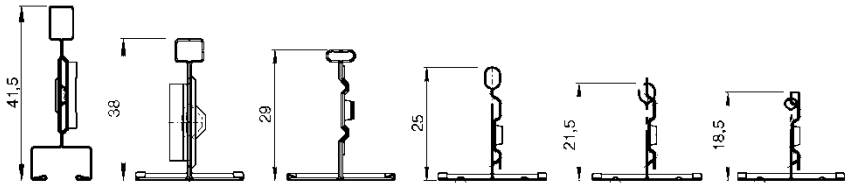
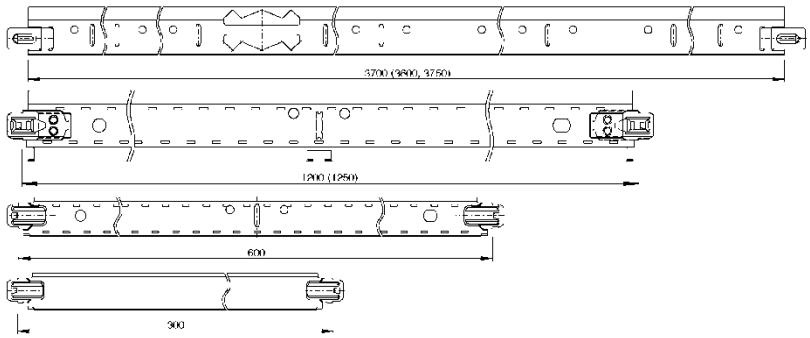
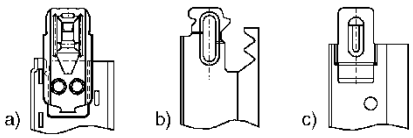
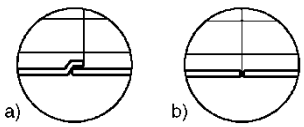
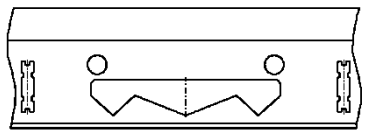
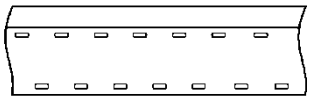
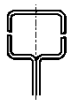

Super chrome

RAL pallete

** A difference in the shade and grain of the metal coating from the actual samples on the day of the order is allowed.

TERMS AND DEFINITIONS

T-PROFILE SUSPENSION SYSTEMS

Indicator	Characteristics	Drawing
Section and visible width of T-profile	24 mm 15 mm 14.5 mm	
Height of T-profile	41.5 mm 38 mm 29 mm 25 mm 21.5 mm 18.5 mm	
Length of profile	3700 (3600)* mm 1200 mm 600 mm 300 mm	
Types of locks	a) Separately riveted lock made of spring steel b) Hooked massive cut lock c) Massive cut lock	
Connection type	a) Overlapped b) Butt	
Fire expansion joint	To compensate for temperature deformations	
Dimple	Connection of two strips of metal to increase the rigidity of the profile	
Stiffener	Affects bearing capacity	

* This type size is specified for T-15 ALBES STRUNA profile

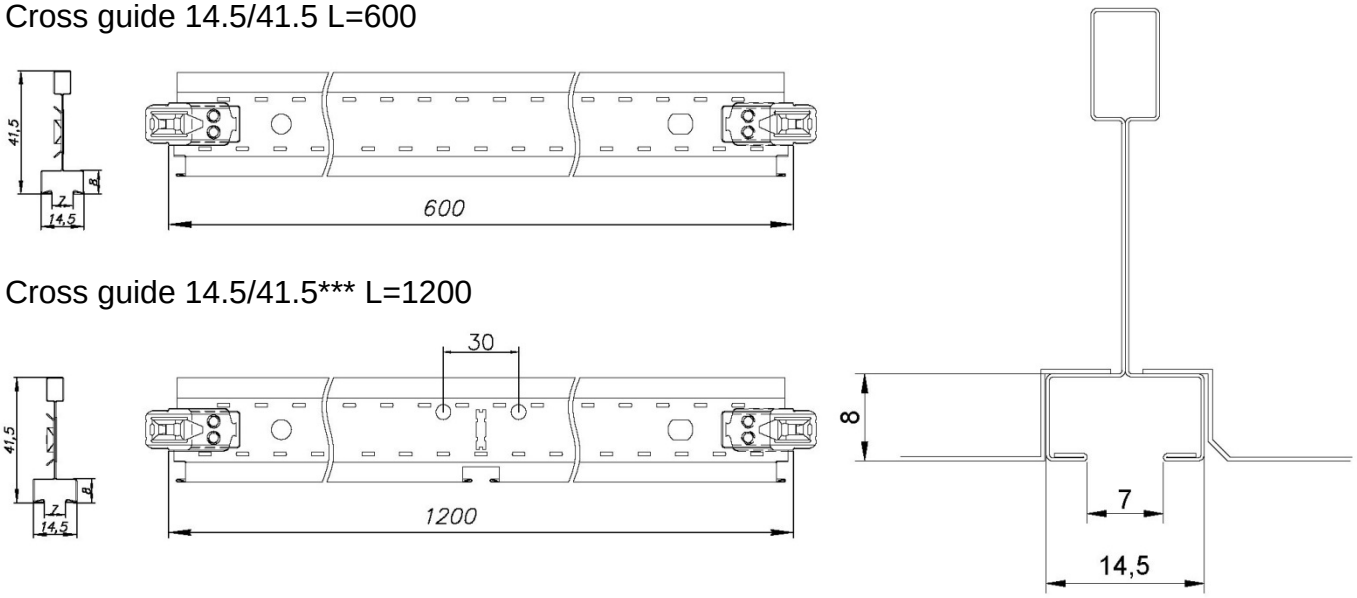
T-15 ALBES STRUNA

FEATURES OF THE SYSTEM

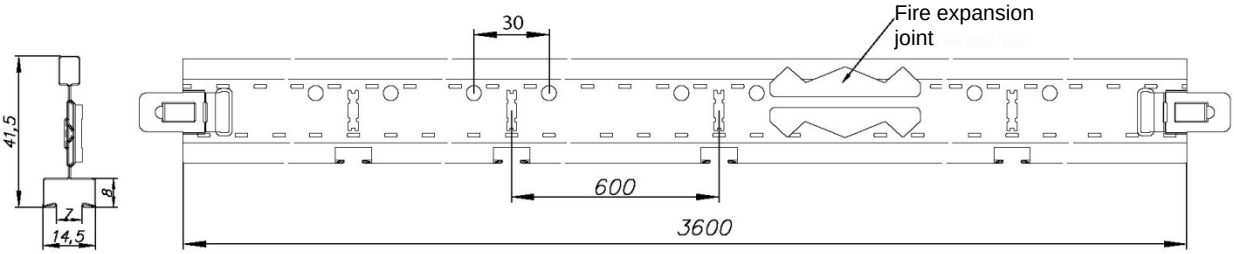
- Increased bearing capacity
- Unique system of snap-on locking connections CLICK
- High corrosion resistance
- Easy to install
- Multiple connection and disconnection of profiles without using special tools
- Possibility to arrange additional LED lighting and auxiliary elements in the visible part of the profile

Cross guide 14.5/41.5 L=600

Cross guide 14.5/41.5*** L=1200



Bearing guide 14.5/41.5 L=3600



TECHNICAL CHARACTERISTICS

Cap width, mm	14.5 mm		
Profile length, mm	3600 mm	1200 mm	600 mm
Profile height, mm	41.5 mm		
Lock type	Separately pressed from spring steel		
Connection type	Butt		
Manufacture material	Steel with protective coating		
Bearing capacity*	up to 15 kg per m^2		
Recommended assembly diagrams	4.5 **		

* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.
**For other installation diagrams, a custom system with a modified cut pitch shall be manufactured.
*** When using 600x1200 mm panels, it is necessary to order a 1.2 m bar without cuts.

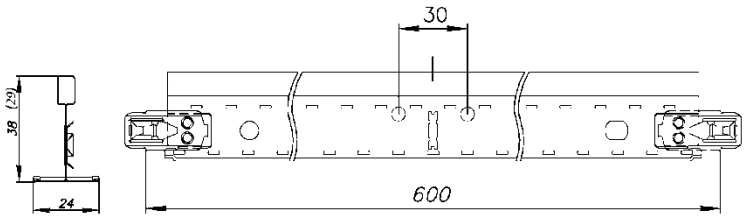
T-24 CLICK PRIM

INCREASED BEARING CAPACITY

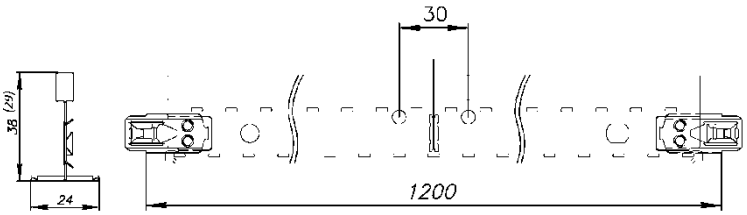
FEATURES OF THE SYSTEM

- Increased bearing capacity
- Unique system of snap-on locking connections CLICK
- High corrosion resistance
- Easy to install
- Multiple connection and disconnection of profiles without using special tools
- Color according to RAL

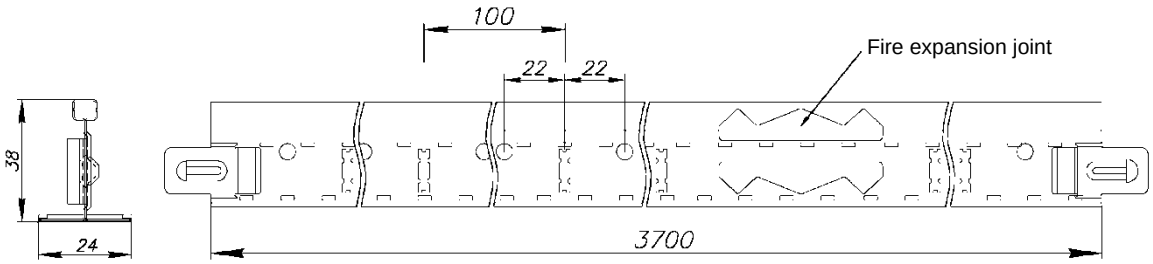
Cross guide 24/29, 24/38 L=600



Transverse guide 24/29, 24/38** L=1200



Bearing guide 24/38 L=3700



TECHNICAL CHARACTERISTICS

Cap width, mm	24 mm		
Profile length, mm	3700 mm	1200 mm	600 mm
Profile height, mm	38 mm	29 (38) mm	29 (38) mm
Lock type	Massive cut	Separately pressed from spring steel	
Connection type	Overlapped		
Manufacture material	Steel with protective coating		
Bearing capacity*	up to 15 kg per m^2		
Recommended assembly diagrams	4-10		

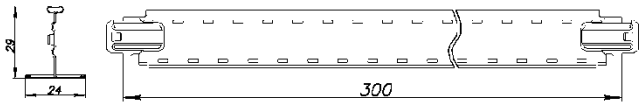
* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.
** The profile height of the transverse guides is selected based on the required bearing capacity.

T-24 ALBES EURO

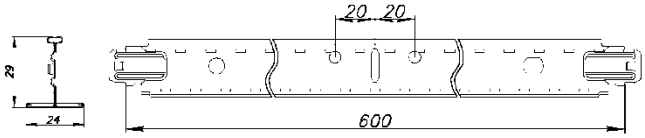
FEATURES OF THE SYSTEM

- Availability of profile with a length of 300 mm.
- High corrosion resistance
- High bearing capacity - up to 13.5 kg per 1 m^2
- Color according to RAL
- Easy to install

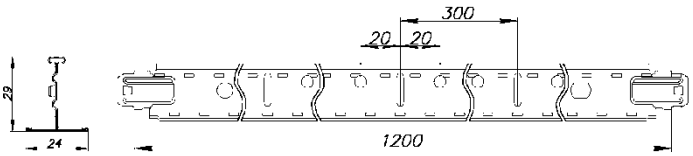
Traverse guide 24/29 L=300



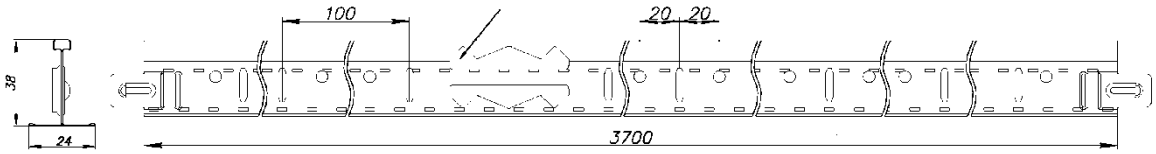
Traverse guide 24/29 L=600



Traverse guide 24/29 L=1200



Bearing guide 24/38 L=3700



TECHNICAL CHARACTERISTICS

Cap width, mm	24 mm		
Profile length, mm	3700 mm	1200 mm	600 mm
Profile height, mm	38 mm	29 mm	29 mm
Lock type	Massive cut		
Connection type	Overlapped		
Manufacture material	Steel with protective coating		
Bearing capacity*	up to 13.5 kg per m2		
Recommended assembly diagrams	4-10		

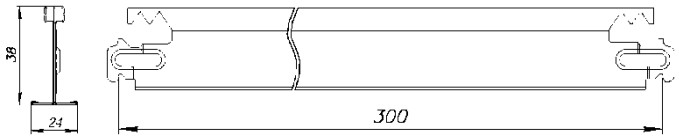
* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.

T-24 PRIM LINE

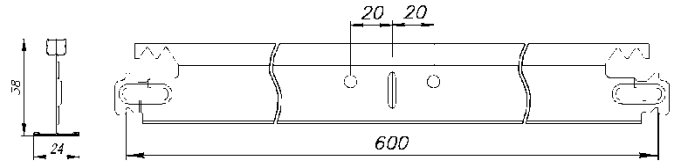
FEATURES OF THE SYSTEM

- Availability of profile with a length of 300 mm.
- Profiles are butt-connected
- High corrosion resistance
- High bearing capacity - up to 13.5 kg per 1 m^2
- Color according to RAL
- Special hook lock
- Easy to install
- Avoids shading in the corners of BOARD type panels

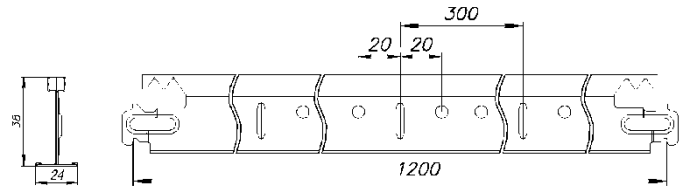
Traverse guide 24/38 L=300



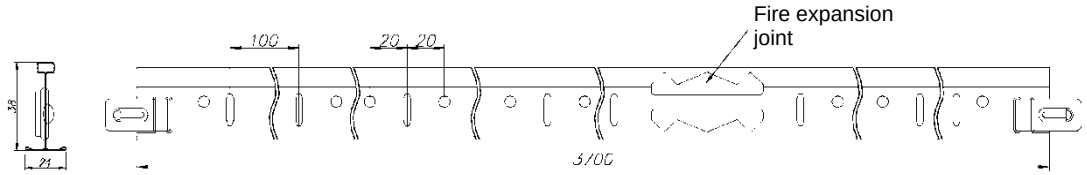
Traverse guide 24/38 L=600



Traverse guide 24/38 L=1200



Bearing guide 24/38 L=3700



TECHNICAL CHARACTERISTICS

Cap width, mm	24 mm			
Profile length, mm	3700 mm	1200 mm	600 mm	300 mm
Profile height, mm	38 mm			
Lock type	Hooked massive cut			
Connection type	Butt			
Manufacture material	Steel with protective coating			
Bearing capacity*	up to 13.5 kg per m2			
Recommended assembly diagrams	1-11			

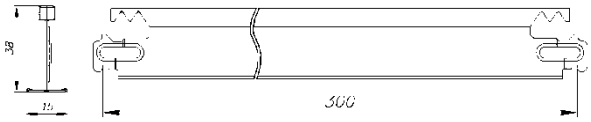
* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.

T-15/38 PRIM

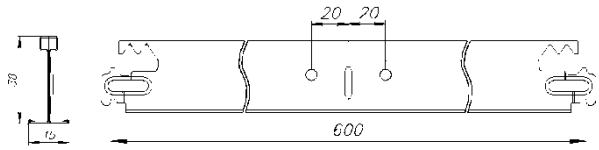
FEATURES OF THE SYSTEM

- Availability of profile with a length of 300 mm.
- Profiles are butt-connected
- High corrosion resistance
- High bearing capacity - up to 13.5 kg per 1 m^2
- Color according to RAL
- Special hook lock
- Easy to install

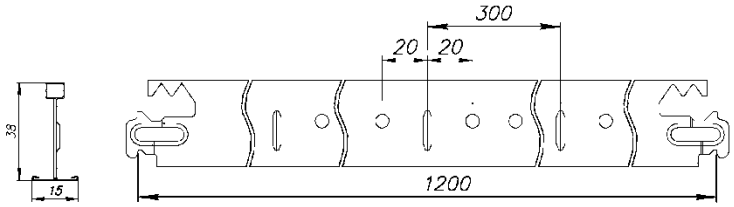
Traverse guide 15/38 L=300



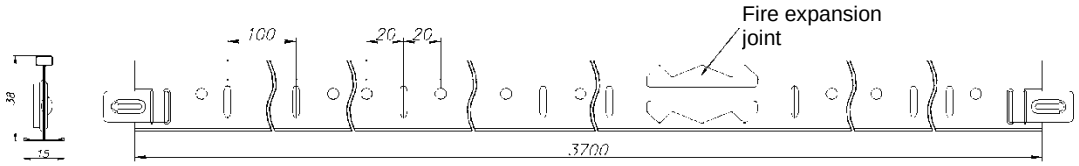
Traverse guide 15/38 L=600



Traverse guide 15/38 L=1200



Bearing guide 15/38 L=3700



TECHNICAL CHARACTERISTICS

Cap width, mm	15 mm			
Profile length, mm	3700 mm	1200 mm	600 mm	300 mm
Profile height, mm	38 mm			
Lock type	Hooked massive cut			
Connection type	Butt			
Manufacture material	Steel with protective coating			
Bearing capacity*	up to 13.5 kg per m^2			
Recommended assembly diagrams	1-11			

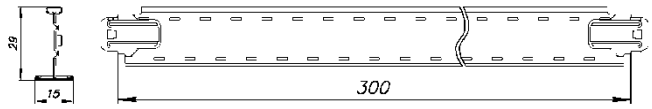
* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.

T-15/29 PRIM

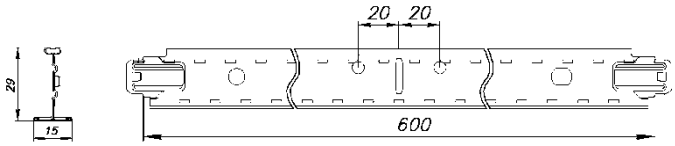
FEATURES OF THE SYSTEM

- Availability of profile with a length of 300 mm.
- Profiles are butt-connected
- High corrosion resistance
- High bearing capacity - up to 12 kg per 1 m^2
- Color according to RAL
- Easy to install

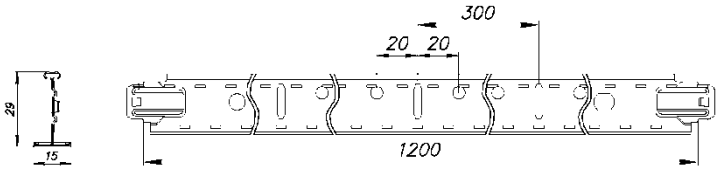
Traverse guide 15/29 L=300



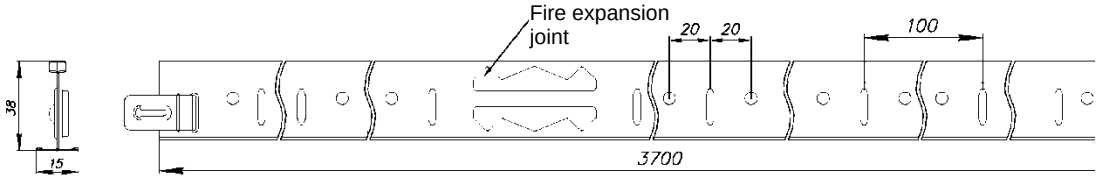
Traverse guide 15/29 L=600



Traverse guide 15/29 L=1200



Bearing guide 15/38 L=3700



TECHNICAL CHARACTERISTICS

Cap width, mm	15 mm			
Profile length, mm	3700 mm	1200 mm	600 mm	300 mm
Profile height, mm	38 mm	29 mm		
Lock type	Massive cut			
Connection type	Butt			
Manufacture material	Steel with protective coating			
Bearing capacity*	up to 12 kg per m^2			
Recommended assembly diagrams	1-11			

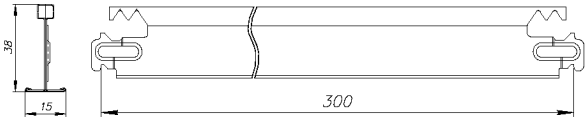
* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.

T-15/38 GL-15

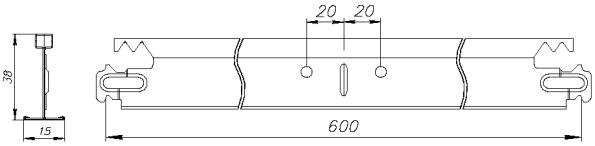
FEATURES OF THE SYSTEM

- Availability of profile with a length of 300 mm.
- Is applied for Griliato GL-15 installation
- Profiles are butt-connected
- Sufficient bearing capacity - up to 8 kg per 1 m^2
- Color according to RAL
- Special hook lock
- Easy to install

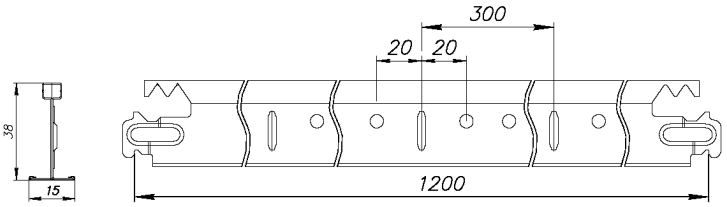
Traverse guide 15/38 L=300



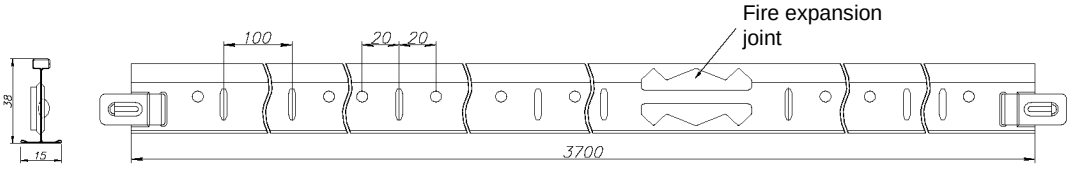
Traverse guide 15/38 L=600



Traverse guide 15/38 L=1200



Bearing guide 15/38 L=3700



TECHNICAL CHARACTERISTICS

Cap width, mm	15 mm			
Profile length, mm	3700 mm	1200 mm	600 mm	300 mm
Profile height, mm	38 mm			
Lock type	Hooked massive cut			
Connection type	Butt			
Manufacture material	Steel with protective coating			
Bearing capacity*	up to 8 kg per m^2			
Recommended assembly diagrams	1-11			

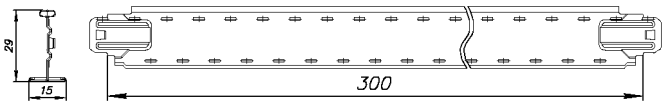
* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.

T-15 ALBES

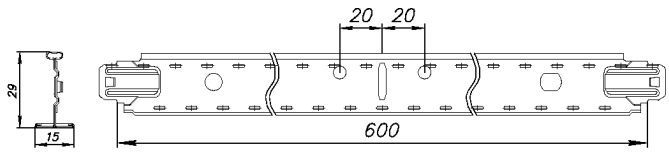
FEATURES OF THE SYSTEM

- Availability of profile with a length of 300 mm.
- Overlapped profile connection
- High corrosion resistance
- High bearing capacity - up to 12 kg per 1 m^2
- Massive cut lock
- Color according to RAL
- Easy to install

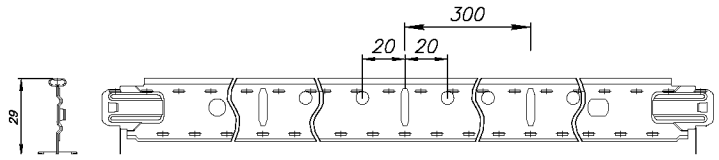
Traverse guide 15/29 L=300



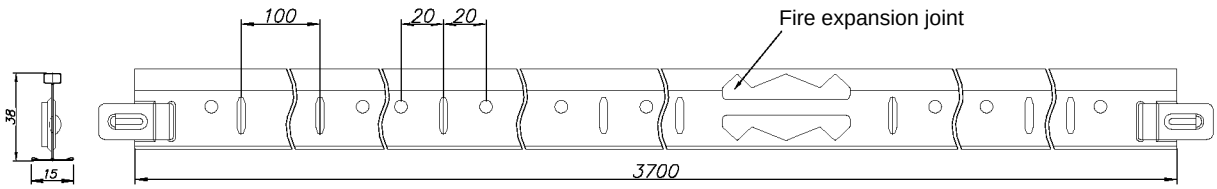
Traverse guide 15/29 L=600



Traverse guide 15/29 L=1200



Bearing guide 15/38 L=3700



TECHNICAL CHARACTERISTICS

Cap width, mm	15 mm			
Profile length, mm	3700 mm	1200 mm	600 mm	300 mm
Profile height, mm	38 mm	29 mm		
Lock type	Massive cut			
Connection type	Overlapped			
Manufacture material	Steel with protective coating			
Bearing capacity*	up to 12 kg per 1 m2			
Recommended assembly diagrams	1-11			

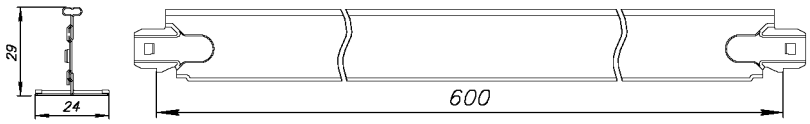
* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.

T-24 ALBES PREMIER

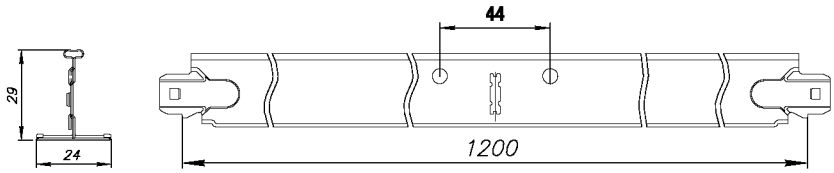
FEATURES OF THE SYSTEM

- Overlapped profile connection
- Sufficient bearing capacity - up to 9 kg per 1 m^2
- Massive cut lock
- Easy to install

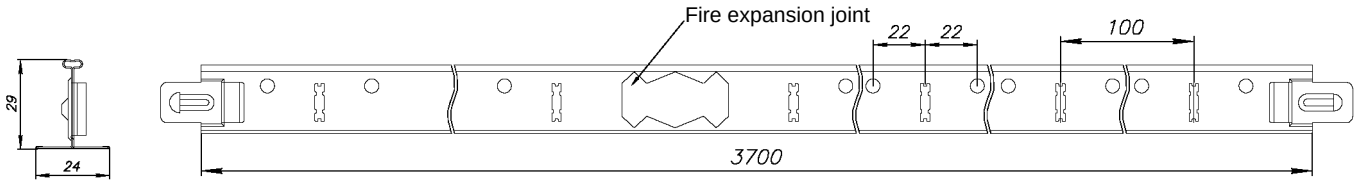
Traverse guide 24/29 L=600



Traverse guide 24/29 L=1200



Bearing guide 24/29 L=3700



TECHNICAL CHARACTERISTICS

Cap width, mm	24 mm		
Profile length, mm	3700 mm	1200 mm	600 mm
Profile height, mm	29 mm		
Lock type	Massive cut		
Connection type	Overlapped		
Manufacture material	Galvanized steel		
Bearing capacity*	up to 9 kg per m^2		
Recommended assembly diagrams	4-10		

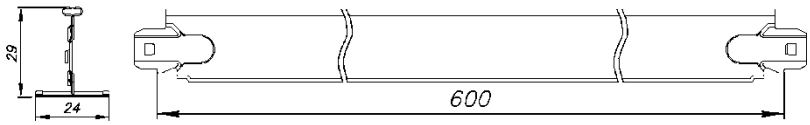
* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.

T-24 ALBES

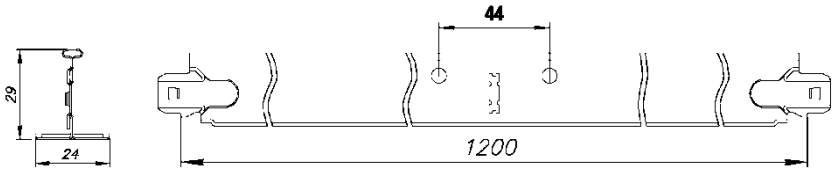
FEATURES OF THE SYSTEM

- Overlapped profile connection
- Sufficient bearing capacity - up to 8 kg per 1 m^2
- Massive cut lock
- Easy to install

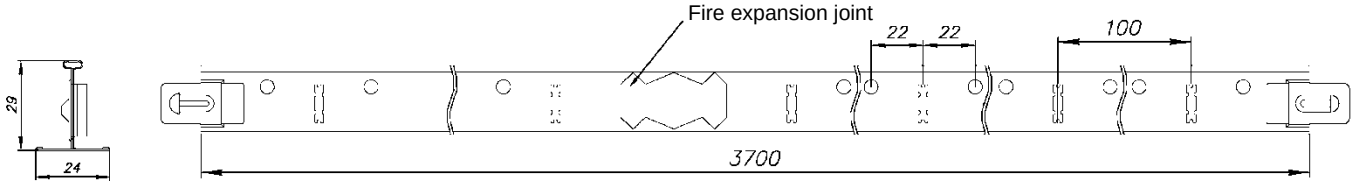
Traverse guide 24/29 L=600



Traverse guide 24/29 L=1200



Bearing guide 24/29 L=3700



TECHNICAL CHARACTERISTICS

Cap width, mm	24 mm		
Profile length, mm	3700 mm	1200 mm	600 mm
Profile height, mm	29 mm		
Lock type	Massive cut		
Connection type	Overlapped		
Manufacture material	Steel with protective coating		
Bearing capacity*	up to 8 kg per m^2		
Recommended assembly diagrams	4-10		

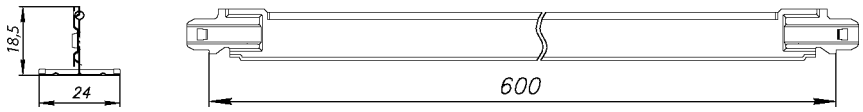
* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.

T-24 NORMA

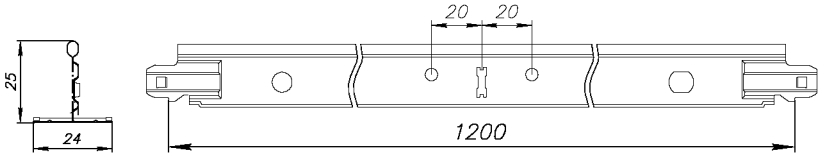
FEATURES OF THE SYSTEM

- Overlapped profile connection
- Sufficient bearing capacity for most ceiling plates – up to 7 kg per 1 m^2
- Massive cut lock
- Easy to install
- The best value for money

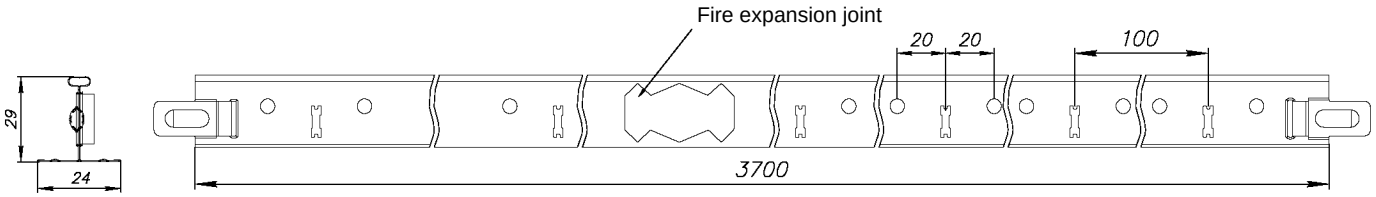
Traverse guide 24/18.5 L=600



Traverse guide 24/25 L=1200



Bearing guide 24/29 L=3700



TECHNICAL CHARACTERISTICS

Cap width, mm	24 mm		
Profile length, mm	3700 mm	1200 mm	600 mm
Profile height, mm	29 mm	25 mm	18.5 mm
Lock type	Massive cut		
Connection type	Overlapped		
Manufacture material	Steel with protective coating		
Bearing capacity*	up to 7 m^2		
Recommended assembly diagrams	4-9		

* The bearing capacity is indicated for installation diagram No. 4 and is determined according to the special method of Albes RPO.

RECOMMENDED ASSEMBLY DIAGRAMS

Diagram 1

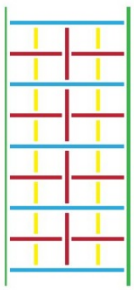


Diagram 2

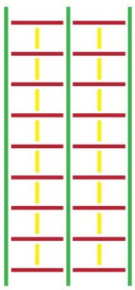


Diagram 3

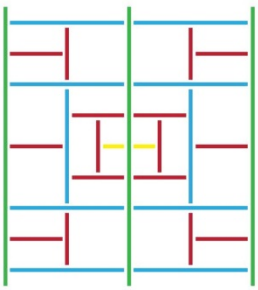


Diagram 4

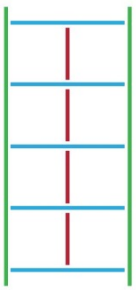


Diagram 5

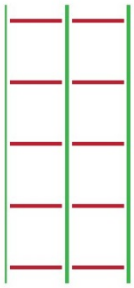


Diagram 6

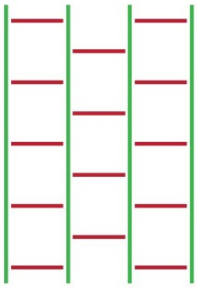


Diagram 7

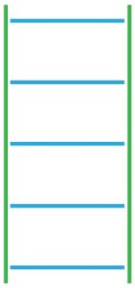


Diagram 8

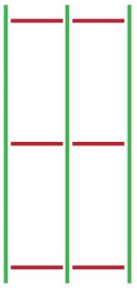
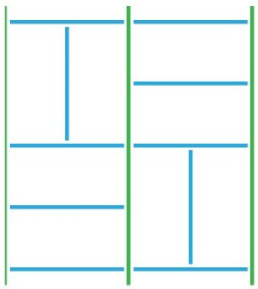


Diagram 9



Diagram

Diagram

L = 300 L = 600 L = 1200 L = 3700

Diagram No.	Name of the system										
	T-15 ALBES STRUNA	T-24 CLICK PRIM	T-24 ALBES EURO	T-24 PRIM Line	T-15 PRIM	T-15 GL-15	T-15 Albes	T-24 Albes PREMIER	T-24 Albes	T-24 NORMA	T-24 E
1			✓	✓	✓	✓	✓				
2			✓	✓	✓	✓	✓				
3			✓	✓	✓	✓	✓				
4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	✓**	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9		✓	✓	✓	✓	✓	✓	✓	✓	✓	
10		✓	✓	✓	✓	✓	✓	✓	✓		
11			✓		✓	✓	✓				

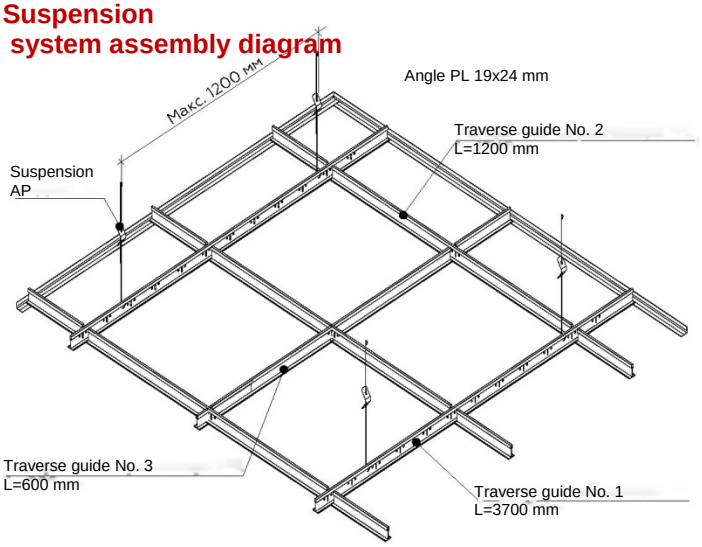
Consumption per 1 m2

Diagram No.	Bearing guide, L				Suspension AP	Nonius suspension	Angle PL 19x24, PLL
	3700 (3600) mm	1200 mm	600 mm	300 mm			
1	0.83 lin. m.	1.67 lin. m.	2.55 lin. m.	1.67 lin. m.	0.7 un.	0.7 un.	according to calculation
2	1.67 lin. m.	-	3.33 lin. m.	1.67 lin. m.	1.4 un.	1.4 un.	
3	according to calculation	according to calculation	according to calculation	according to calculation	according to calculation	according to calculation	
4	0.83 lin. m.	1.67 lin. m.	0.83 lin. m.	-	0.7 un.	0.7 un.	
5	1.67 lin. m.	-	1.67 lin. m.	-	1.4 un.	1.4 un.	
6	1.67 lin. m.	-	1.67 lin. m.	-	1.4 un.	1.4 un.	
7	0.83 lin. m.	1.67 lin. m.	-	-	0.7 un.	0.7 un.	
8	1.67 lin. m.	-	0.83 lin. m.	-	1.4 un.	1.4 un.	
9	0.83 lin. m.	1.67 lin. m.	-	-	0.7 un.	0.7 un.	
10	0.83 lin. m.	0.83 lin. m.	-	-	0.7 un.	0.7 un.	
11	0.83 lin. m.	0.83 lin. m.	-	-	0.7 un.	0.7 un.	

*Nonius suspension for T-profile is used for frames of suspension systems T-15 and T-24, except for T-24 E (Economy).
** When ordering, specify that the bar is 1.2 m without cuts

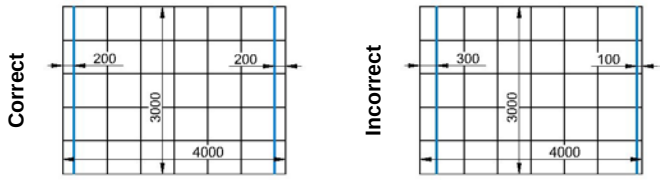
ASSEMBLY DIAGRAM AND SEQUENCE FOR T-PROFILE SUSPENSION SYSTEM

Suspension system assembly diagram



Step 1. Prepare the ceiling void. Fix all utilities preventing them from falling and leaning on the suspended ceiling.

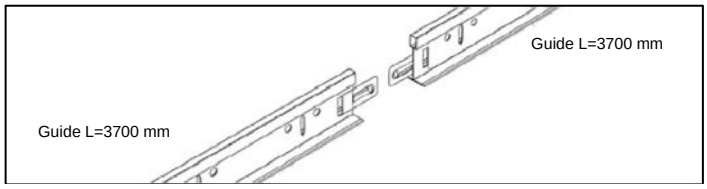
Step 2. Before starting the installation of the suspension system, it is recommended to draw up a layout of the room and a diagram of the suspended ceiling to make the ceiling symmetrical relative to the perimeter of the room.



Step 3. Start work with horizontal level marking along the room perimeter. The height is determined by the design. When the level is marked, fasten the angle profile along the markings, fixing it every 300-500 mm. The level of angle installation determines the height of the suspended ceiling. At the corners, cut the angle profile at 45 degrees, in straight areas bring two angles butt, making a fastening at each end. Cut the angle profile with tin snips. Angle profile is also attached to all other structures of the room, where the suspended ceiling adjoins, for example, columns.

Step 4. Move on to fastening main guides of the suspension system to the suspensions. Start from one wall. T-shaped profile with a length of 3700 mm is suspended on suspensions with a pitch of not more than 1200 mm, stepping back from the wall at a distance that ensures the symmetry of the cut panels. In this case, the first suspension shall be installed at a distance of no more than 300 mm from the wall. The edges of the guides shall be on the angle that we have attached to the walls.

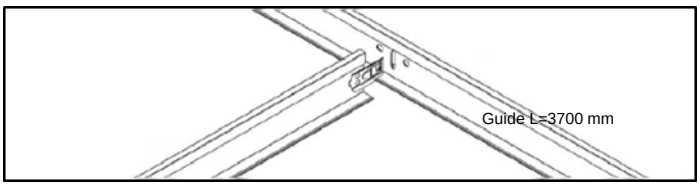
Step 5. If the room is longer than 3700 mm, join main profiles with each other, for this purpose a special lock is provided at the ends.



Step 6. Upon completion of profiles attachment, they are leveled in one plane, which forms the perimeter level. This is done by adjusting up and down suspensions on which the main guides are fixed.

Step 7. In accordance with the previously developed layout, install T-profile with a length of 1200 mm in the locking holes of 3700 mm guides.

Step 8. The next stage of assembling the frame of the suspended ceiling is installation of transverse guides (600 mm length). They are inserted perpendicularly and between the guides with a length of 1200 mm. Thus, cells of 600 x 600 mm shall be made. When using panels with a size other than 600x600 mm (300x300, 300x600, 600x1200, etc.), the installation of T-profile shall be performed in accordance with the selected diagram.



ATTENTION!

Splinkers, air conditioners on the front part of the suspended ceiling shall be mounted on independent suspensions.

It is forbidden to attach to air ducts and other utility systems in the rooms.

In rooms with high humidity, it is forbidden to install T-profile T-24 E, T-24 NORMA, T-24 Albes.

In rooms with high humidity Nonius suspension is used.

It is not allowed to use products made of material with color code A741a02 (super-chrome).

A step-by-step description is given for installation diagram 4, prior installation it is necessary to select the desired diagram.

SUSPENDERS FOR CEILING SYSTEMS

PRODUCT RANGE

Name	ALPHA SUSPENSION (AP)	EURO SUSPENSION	GRILIATO SUSPENSION (AP-G)	UNIVERSAL SUSPENSION
Image				
Pin length, mm	275	226/326/526/776	325/375/575/825	226/276/326/376/401/526/651/776/901/1026/1276/1526
Pin diameter, mm	3	4	2	2.5
Maximum bearing capacity, kg	18.5	50	15	50

PRODUCT RANGE

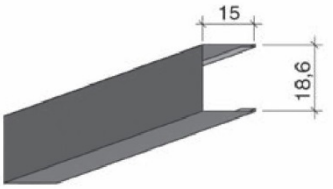
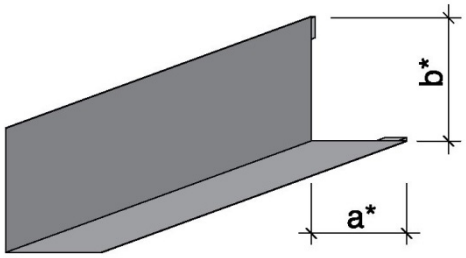
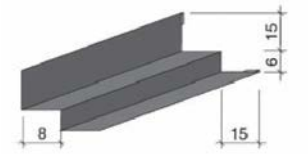
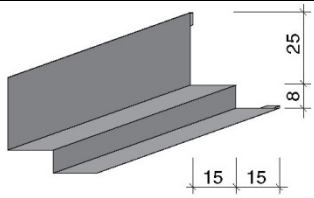
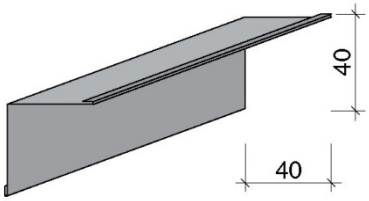
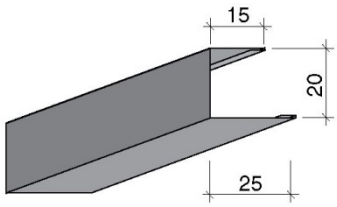
Name	NONIUS SUSPENSION FOR RACK	NONIUS SUSPENSION FOR T-PROFILE	NONIUS SUSPENSION FOR BT-600
Image			
Maximum bearing capacity, kg	100		

Name of elements	Width, mm	Thickness, mm	Length, mm
Nonius, top part 200 (500/600/700/1000)	24.5	1	193.8/ 2487.7/585.2/697.7/987.7
Nonius, bottom part for T-profile	31.7	1	177
Nonius, bottom part for rack	31.7	1	133
Nonius, bottom part for BT-600	31.7	1	177
Nonius - splint	28.5	0 2.5	68.2
Nonius - extension 1000(500/1500)	12.2	1	497,4/984,9/1472,4
Nonius - connector	14.6	1	90

SPECIAL PROFILES FOR CEILING SYSTEMS

A wide range of special profiles allows bringing the ceiling design to aesthetic perfection. Due to the different type sizes and colors, you can choose the ideal profile even for original design solutions.

PRODUCT RANGE

Item No.	Product sketch	Name
1		RPP18
2		PL 19x19
3		PL25x25
4		PL50x50
5		PL50x40
6		PL72x40
7		PL90x40
8		PL 140x40
9		PL a*xb*
10		PLLA6/A8
11		PLL
12		PB 40x40
13		PC

Along with the profiles presented in the table, RPO ALBES provides additional services on the design and production of customized profiles.

VALTONIX LIGHTS

LED LUMINAIRES

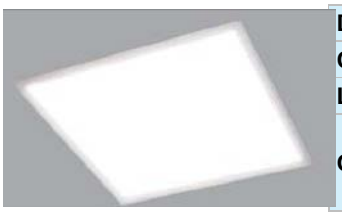
LED lighting is one of the promising areas of artificial lighting technologies based on the use of LEDs as a light source.

ADVANTAGES
- Service life up to 50000 hours or 20 years of operation
- Low power consumption
- Work in extreme conditions at low temperatures

LEDs can be operated at temperatures from -50 to +70 degrees
- High output of light from one watt. LED gives more than 100 lm per watt
– Environmentally friendly

LED luminaires do not contain mercury, which makes them safe for the environment.

ULTRA LIGHT LED
Grigliato Albes 3420 lm

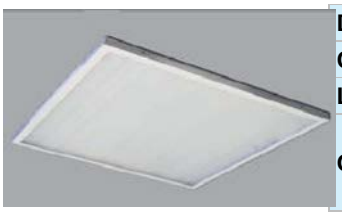


Dimensions	588x588x10 mm
Capacity	40 W
Light flux	3420 lm
Optical part	Diffuser - opal

ULTRA LIGHT LED 3000 lm

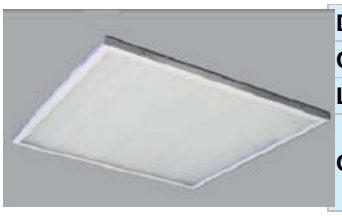
Dimensions	595x595x10 mm
Capacity	40 W
Light flux	3000 lm
Optical part	Diffuser - opal

UNIVERSAL LED
Homogeneous light 4000 lm IP54



Dimensions	595x595x32 mm
Capacity	40 W
Light flux	4000 lm
Optical part	Diffuser - opal

UNIVERSAL LED
Homogeneous light 3060 lm



Dimensions	595x595x25 mm
Capacity	40 W
Light flux	3060 lm
Optical part	Diffuser - opal

UNIVERSAL LED
PRISMA/OPAL 3060 lm

Dimensions	595x595x19 mm
Capacity	36 W
Light flux	3060 lm
Optical part	Diffuser opal/prisma

LED luminaires Pelin™ PIX for GRILLATO ceiling

Ceiling type Griliato	GL-15 cell 100x100	Griliato standard, cell 100x100	Griliato standard, cell 75x75
Dimensions	84x84x40	89x89x40	64x64x40
Capacity	6 W/10W		
Light flux	850 lm		
Optical part	Diffuser - opal		

Installation of the luminaire shall be carried out after the assembly of ceiling suspension system T-profile. The luminaire is placed inside the module of the suspension system and fixed to the rough ceiling using suspensions of Alpha-V type (not included in the kit) or similar to them.

METHODS OF APPLICATION TO METAL

POWDER COATING

TECHNICAL REQUIREMENTS TO PRODUCTS

Length, mm	up to 4000
Height, mm	up to 2000
Width, mm	up to 800
Max weight, kg	80 kg
Manufacture material	Aluminum alloys, galvanized steel, non-galvanized steel

Polymer coating with high protective and decorative properties. Increases anti-corrosion resistance of metal products, makes them resistant to aggressive environment, salts, alkalis and acids, protects against the impact of atmospheric factors, impact of UV, wind, moisture. Painting in a specially equipped chamber guarantees uniformity of painting, including edges, corners and other hard-to-reach elements.

UV PRINTING

TECHNICAL REQUIREMENTS TO PRODUCTS

Length, mm	up to 7000
Height, mm	up to 1600
Width, mm	up to 200
Max weight, kg	80 kg
Manufacture material	Aluminum alloys, galvanized steel, non-galvanized steel, glass, plastic, stone, wood, etc.

A type of printing using UV-curable inks that solidify under the influence of ultraviolet radiation, forming a film on the sealed material. Metal with such coating has high decorative properties, any image can be printed on the products without color distortion and loss of brightness. You can apply the image on both a smooth and textured surface.

SUBLIMATION

TECHNICAL REQUIREMENTS TO PRODUCTS

Length, mm	up to 4000
Width, mm	up to 1250
Max weight, kg	80 kg
Manufacture material	Aluminum alloys, galvanized steel, non-galvanized steel

The principle of sublimation on metal is to transfer the image from the decorative film to the working surface, "primed" with powder paint. As a result, all the advantages of the painted surface are preserved, while the paint palette is actually infinitely expanded. The base, made in one of the colors according to RAL catalog, is complemented by an original decorative pattern transferred from the film. Metal surface will be able to acquire visual parameters of any natural material, while maintaining its engineering, technical and structural characteristics.

METHODS OF METAL PROCESSING

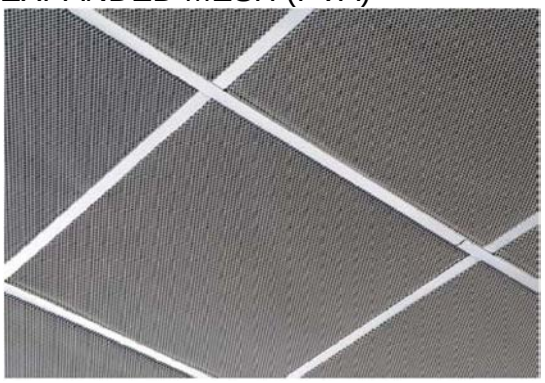
LASER CUTTING

TECHNICAL REQUIREMENTS TO PRODUCTS

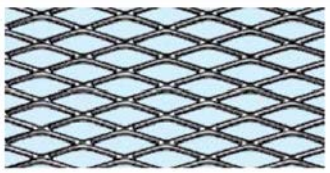
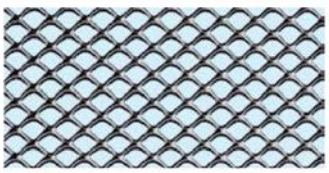
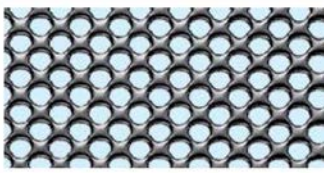
Length, mm	up to 4000
Width, mm	up to 2000
Max weight, kg	80 kg
Manufacture material	Aluminum alloys, galvanized steel, non-galvanized steel

Metal cutting technology using a high-power laser on industrial production lines. In this case, it is possible to obtain narrow cuts with a minimum zone of thermal impact. The absence of mechanical contact makes it possible to process fragile and easily deformable materials with a very small error.

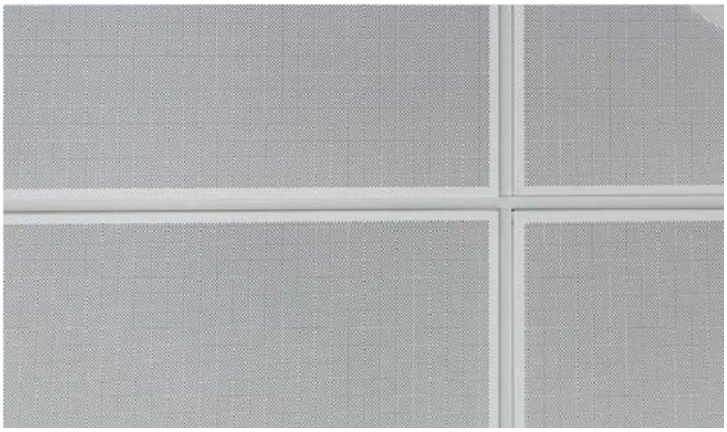
EXPANDED MESH (PVA)



The finished product is a metal mesh with diamond-shaped, round, square or other shaped cells. Thanks to using sheet metal, the mesh has a solid structure without welds. Its canvas consists of cells located in the same plane with the natural three-dimensional structure. Even in case of disturbance of the integrity of one of the canvas elements, the entire mesh does not brake.

Name	R16 Diamond cell	Q8 Square cell	ST10 Round Cell
Image			
Cell length, mm	16	8	10
Cell width, mm	8	6	8
Jumper width, mm	1.5	0.8	1
Roll width, mm	1250	1000	1250
AL, metal thickness (mm)	0.4-1.5	0.4-0.8	0.4-1.2
Steel, metal thickness (mm)	1.5	0.4-0.8	0.4-0.8

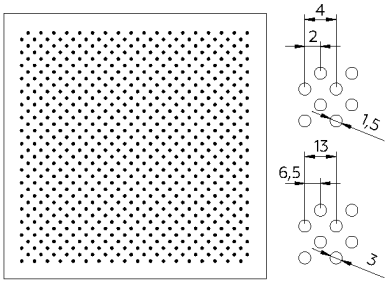
PERFORATION



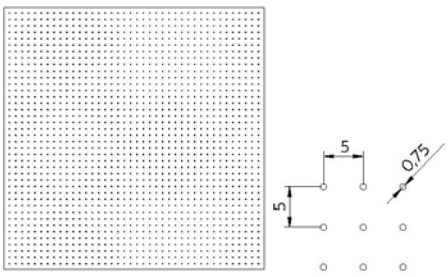
Cutting holes in the metal is performed using presses under high pressure. It turns out a modern finishing material, widely used for technical and decorative purposes. On the working surface of the product in a certain sequence there are through cuts, which can have different shapes (round and square) and sizes.

PERFORATION PATTERN ON THE PANEL

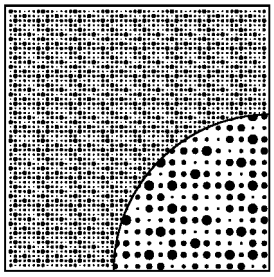
F — solid, round perforation
R — **round perforationя**
K — square perforation



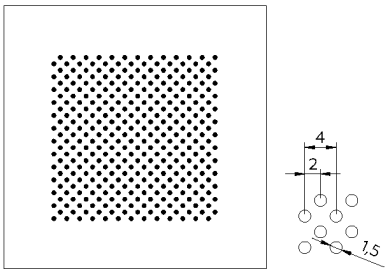
F45
(d=1.5/3 mm)
% perf. 20/28



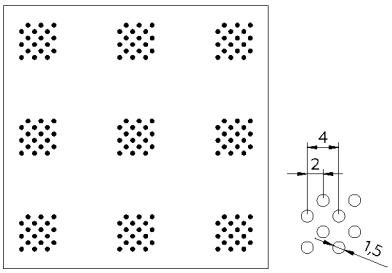
F90
(d=0.75 mm)
% perf. 2



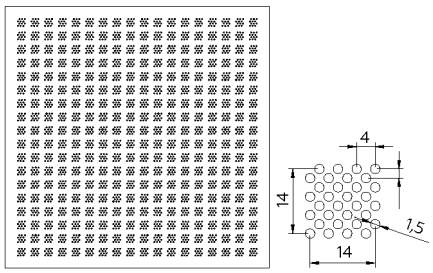
MIX
(d=3 - 22 mm)
% perf. 15-20



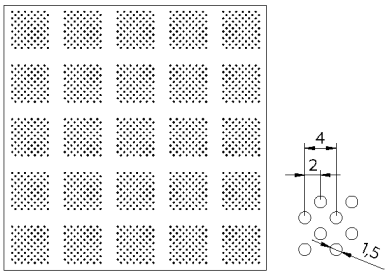
R1
(d =1.5 мм)
solid square
(300x300 mm)



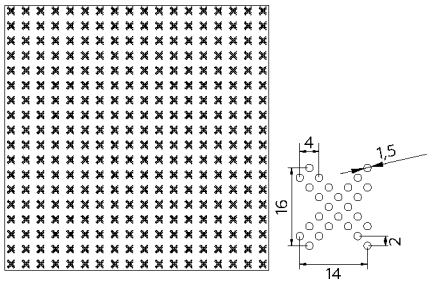
R2
(d=1.5 mm)
nine squares
(94x94 mm)



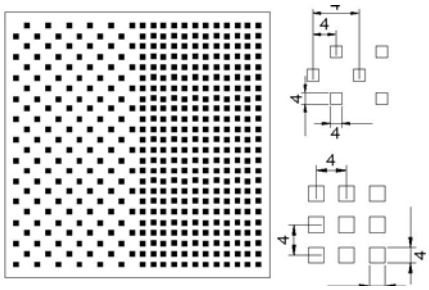
R3
(d=1.5 mm)
mini squares
(14x14 mm)



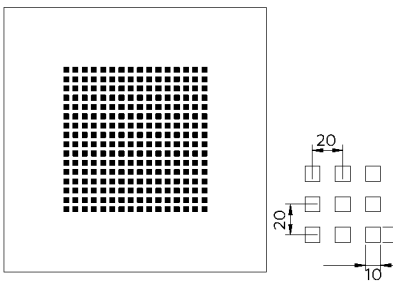
R4
(d=1.5 mm)
twenty-five squares
(62x62 mm)



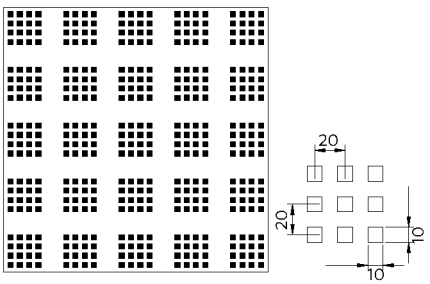
R5
(d=1.5 mm)
X-shaped (16x14 mm)



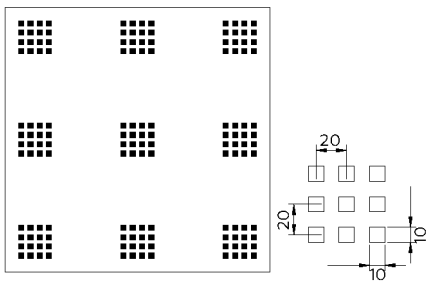
K45 **K**90 4
% perf. 12.5 25 mini squares
(10x10 mm)



K1
solid square
(380x380 mm)



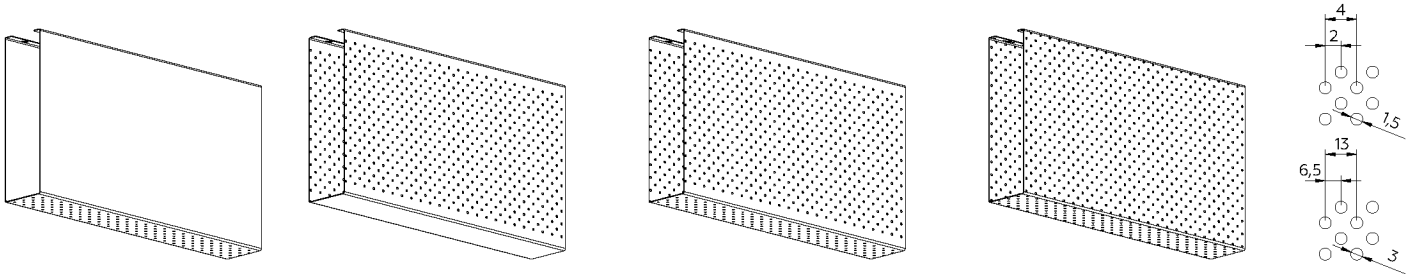
K5
twenty-five squares
(60x60 mm)



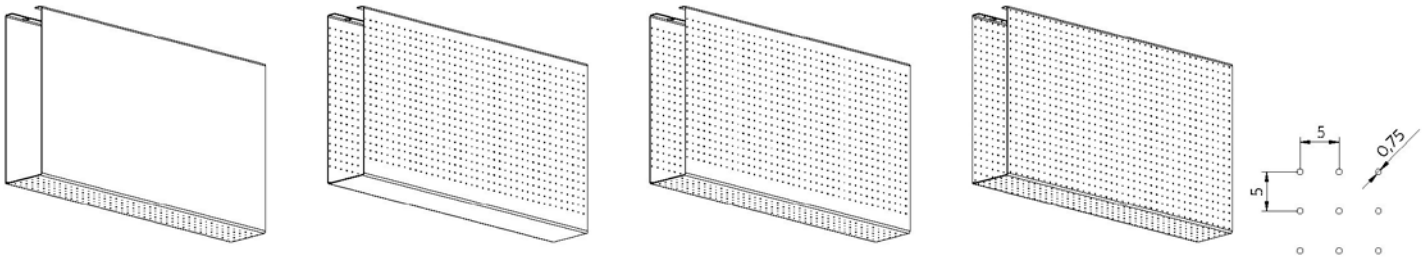
K9
nine squares
(60x60 mm)

PERFORATION PATTERN ON THE LATH

Cube-shaped lath

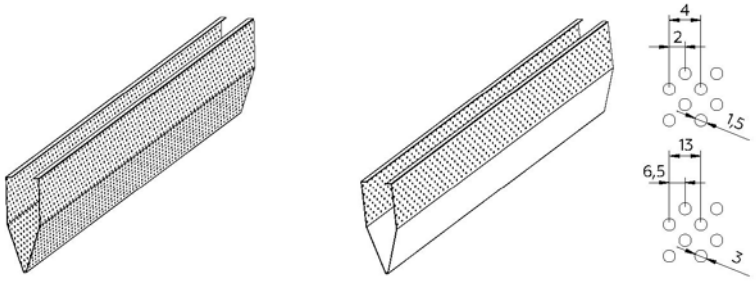


F45
(d=1.5/3 mm)
% perf. 20/28



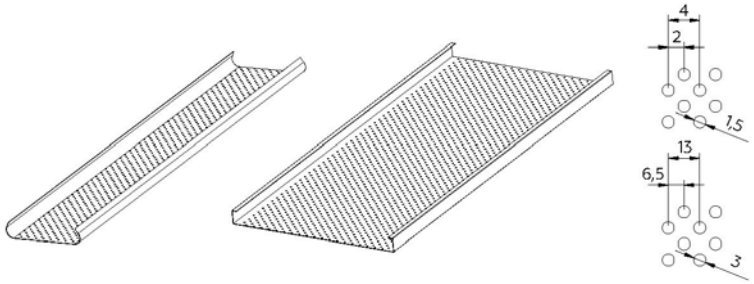
F90
(d=0.75 mm)
% perf. 2

V-shaped lath



F45
(d=1.5/3 mm)
% perf. 20/28

Italian design lath (Rectangular, German, S-design, OMEGA)



F45
(d=1.5/3 mm)
% perf. 20/28

RECOMMENDATIONS FOR METAL SUSPENDED CEILINGS HANDLING

Cleaning of metal suspended ceilings elements shall begin immediately after contamination. Old dirt is much difficult to clean, so timely care is a guarantee of durability and preservation of the aesthetic properties of the ceiling structure.

To clean, it is enough to wipe the ceiling with a dry soft cloth. To clean from film and fingerprints, use a sponge soaked in a solution of detergent or mild soap. Squeeze it well beforehand. After cleaning, gently remove the soap stains with a cloth soaked in clean water. Remember that with an abundance of water on the surface, there is a risk of moisture penetrating into the joints between the panels or on an untreated surface, which can result in corrosion of the structure. With the constant ingress of moisture on the butterflies of AP or Euro suspensions, their destruction can occur, which can result in the collapse of the ceiling structure.

For the same reason, it is undesirable to wash metal ceiling panels and laths with a stream of water under high pressure or to perform steam treatment. It is also not recommended to use abrasives and clean the surface with brushes with hard bristles. When cleaning ceilings, caution should be used, because in economy design metal thickness is quite small and the ceiling surface is easy to bend. Ceilings made of mirror raw materials can be cleaned only with a dry soft cloth, because stains from the cleaning agent may remain on the surface.

Ceiling structures made of standard painted raw materials do not allow treatment with disinfectants.

Subject to proper installation and care, your ceiling of metal cassettes and laths will delight you for a long time with its functionality, beauty and practicality.

RECOMMENDATIONS FOR CEILINGS INSTALLATION

Works on installation of the suspended ceiling ALBES shall be performed in accordance with the design documentation, work execution plan and current regulatory documents. Assemble the ceiling with clean hands or gloves, periodically wiping hands with paper napkins or clean rags made of cotton material.

All ceiling utilities (ventilation, lamps, cable trays, etc.) mating to the suspended ceiling shall not rely on the structure and are mounted on an independent frame.

When installing in rooms with high humidity, it is necessary to avoid the ingress of steam and water into the ceiling space, it is necessary to use a ceiling with closed joints or with layouts. The panels shall be made of aluminum alloy. Steel galvanized racks and suspensions shall be covered with anti-corrosion paints or aluminum racks shall be used on stainless steel suspensions. It is desirable to provide for the possibility of ventilation of ceiling space. During installation, avoid mechanical damage to the suspension system and protective and decorative coatings of the profile.

INSTALLATION OF LATH SUSPENDED CEILINGS

PREPARATION FOR INSTALLATION

- prepare rough ceiling - clean, paint (prime), seal and process all seams and defects;
- complete all works on the rough ceiling and in the ceiling space (utility works, electrical installation, fire protection lines, air ducts, etc.);
- fix all utilities preventing them from falling and leaning on the suspended ceiling.

MARKING OF INSTALLATION POINTS OF ADJUSTABLE AP SUSPENSIONS AND PERIMETER PROFILE LINES

- Mark the points of installation of adjustable suspensions along the axis of the rack, provided that:
  - rack pitch will be no more than 1200 mm;
  - the pitch of suspensions along the rack axis will also not exceed 1200 mm;
  - the free rack console will not exceed 400 mm;
  - the free lath console will not exceed 300 mm;
- mark the location of the elements cut into the suspended ceiling (lamps, decorative elements, etc.)
- along the perimeter of the room apply a mark of the perimeter profile according to the level of the suspended ceiling.

ATTACHMENT OF THE SUSPENSION AND PERIMETER PROFILE

- the perimeter profile is attached to the wall according to the previously made marking. The brand of fastener depends on the material of the wall.
- According to the markings made, fix AP suspension (nonius) to the rough ceiling. The brand of fastening element is determined depending on the material of the load-bearing ceiling, the brand of the suspended ceiling, subject to certain conditions:
- the suspension shall be in an upright position and be perpendicular to the rack (deviation from the vertical shall not exceed 3 degrees);
  - connection of the suspension and the rough ceiling shall be hinged.

RACK INSTALLATION

- installation of racks shall be carried out from the side of the greatest deviation of the rack axis from the wall parallel to it, observing the alignment of the racks;
- after installing all racks, align them into a single plane using an adjustable suspension;
- install luminaires (except spot lamps) in the designed position on an independent frame that does not rely on racks;
- check the alignment of the racks.

LATH INSTALLATION

- before installing laths, remove the protective film from the lock part of laths;
- sequentially install the ceiling lath in the racks. The lath shall be snapped into the rack, in the event of stress, check racks alignment and the correspondence of all racks to one plane;
- finally free the lath from the protective film.

The flatness tolerance for laths and racks is 1 mm per 1 lin. m. of profile.
When installing laths in super chrome color, it is necessary to use gloves included in the kit.
Quality control of the mounted ceiling is carried out visually for the flatness of the ceiling and absence of waviness and "bucklings" (places of stress, clamping or misalignment of lath).

INSTALLATION OF CASSETTE CEILINGS OF CLOSED TYPE FASTENING

PREPARATION FOR INSTALLATION

- prepare rough ceiling - clean, paint (prime), seal and process all seams and defects;
- complete all works on the rough ceiling and in the ceiling space (utility works, electrical installation, fire protection lines, air ducts, etc.);
- fix all utilities preventing them from falling and leaning on the suspended ceiling.

MARKING OF INSTALLATION POINTS FOR ADJUSTABLE SUSPENSIONS

- mark the installation points of the guides with a tape measure on the surface of the wall. Profiles shall be placed at least 75 mm above the design mark of the suspended ceiling;
- the extreme point of suspension attachment shall be marked from the condition of the maximum console (free-hanging extreme part of the main profile PP-1-2 (47x26 mm) no more than 600 mm;
- - the pitch of suspensions fastening is specified by the design, taking into account all parameters and additional loads on the ceiling (heat-sound-insulating materials, etc.), the maximum pitch of the suspensions is 1200 mm.

ATTACHMENT OF SUSPENSIONS AND PERIMETER PROFILE

- the perimeter profile is attached to the wall according to the markings made earlier. The brand of fastener depends on the wall material;
- fix the suspension to the rough load-bearing ceiling according to the made markings using special expansion bolts (depending on the material of floor structures), subject to the following conditions:
  - the suspension shall be in a vertical position and be perpendicular to the comb or profile PP 47x26 (deviation from the vertical shall not exceed 3 degrees).

INSTALLATION OF THE SUPPORTING FRAME

The frame of the suspended metal ceiling with a hidden suspension system consists of the main bearing profile PP-1-2, guides PPN-2 (20x28 mm) and bearing profile BT-600, their installation is carried out in the following sequence:

- - on the walls enclosing the room, install PPN-type guides at the construction level, securing them with extension bolts (pitch no more than 600 mm), if the walls are made of drywall, fastening is carried out using self-tapping screws (pitch no more than 600 mm);
- - fix on the suspensions the main ceiling profiles PP-1-2 with a pitch of 1000 mm;
- fastening of main profiles to the suspensions with a clamp is provided by mutual support using curved shelves of main profiles PP-1-2;
- align the level of main ceiling profiles PP-1-2 using adjustable suspensions;
- along the perimeter of the room, elements of the frame shall be fixed to the guides;
- attach Bearing profile VT-600 with a step of 600 mm to main profiles. Fastening is made using a two-level suspension.

CASSETTE INSTALLATION

- the locking parts of the cassette shall be cleaned from the protective film;
- cassettes are snapped into the bearing profile from below, as tightly as possible to each other, the orientation of the cassette is determined by the arrow "direction of installation" on the protective film;
- upon installing ceiling plane, it is necessary to remove the protective film from all cassettes installation-ward indicated on the protective film.

The flatness tolerance for the bearing profile is 1 mm per 1 lin. m. of the profile.
When installing cassettes in super chrome color, it is necessary to use gloves included in the kit.
Quality control of the cassette ceiling is carried out visually to determine:

- flatness of the ceiling;
- absence of gaps between the panels;
- absence of gaps between the ceiling plane and the perimeter profile.

INSTALLATION OF CASSETTE CEILINGS OF OPEN TYPE FASTENING

Preparatory work for the installation of suspended cassette ceiling with an open suspension system is carried out similarly to the preparatory work for the installation of cassette ceilings of a closed type of fastening.

MARKING

- determination of axes direction of the bearing profile No. 1 (L = 3700 mm) is made either along the longest of the walls or parallel to the highest quality (flat) wall;
- - the first axis of the bearing profile No. 1 is marked parallel to the previously determined wall at a distance of 600 mm. All subsequent axes are marked parallel to the first axis with a pitch of 600 mm or 1200 mm, depending on the chosen installation diagram of the frame;
- marking of installation points of adjustable suspensions is made according to the following conditions:
  - the installation points of adjustable suspensions shall be on the same line as the bearing guide;
  - to prevent overloading of the perimeter profile, the extreme attachment point of the suspension shall be no more than 600 mm away from the walls with a ceiling weight of up to 4.0 kg/m2 and 450 mm with a weight of more than 4.0 kg/m2;
  - the pitch of suspension fastenings is specified by the design, taking into account all parameters and additional loads on the ceiling (mats made of min eral fiber, insulating film, etc.); additional weight shall not exceed 2 kg/m2 of suspended ceiling;
- mark the location of elements cut into the suspended ceiling (lamps, engineering utilities, decor elements, etc.);
- on the level of the suspended ceiling agreed with the customer, a mark of the perimeter profile is applied along the perimeter of the room. The level of the plane is determined relative to the horizon or available door and window openings.

ATTACHMENT OF SUSPENSIONS AND PERIMETER PROFILE

- the perimeter profile is attached to the wall according to the previously made marking. The brand of fastener depends on the wall material;
- fix the suspension to the rough bearing ceiling according to the marking made using special extension bolts. The brand of fastening element is determined by the design depending on the material of rough load-bearing ceiling and the brand of the suspended ceiling. Fastening is carried out in compliance with the following conditions:
  - the suspension shall be in an upright position and be perpendicular to the load-bearing of the suspended ceiling (deviation from the vertical shall not exceed 3 degrees).

FRAME INSTALLATION

The frame of the cassette ceiling with an open suspension system consists of load-bearing profiles No. 1, 2, 3 (L = 3700; 1200; 600 mm, respectively) and is made in the following sequence:

- install bearing profiles No. 1 on the suspensions, pin hook shall freely enter the opening of the bearing profile, holding the carrier by two sides and, at the same time, without deforming it;
- - connect profiles No. 1 in length with each other using special protrusions by snapping (the protective film is removed immediately before installing the bearing profile);
- along the median axis of bearing profile No. 1, perpendicular to it, install bearing profile No. 2 (the profile shall snap, having received a fixed position, the protective film is removed immediately before the profile is installed);
- along the median axis of guide profile No. 2, perpendicular to it, install guide profile No. 3 (it shall snap, having received a fixed position, the protective film is removed immediately before installing the profile);
- align the frame by means of adjustable suspensions to the design position;
- check the compliance of the frame plane with the specified design plane of the ceiling.

CASSETTE INSTALLATION

- remove the protective film from the cassette in the direction of installation indicated on the protective film;
- install the cassette in the supporting frame observing the plane of the frame;
- verify that the cassette plane corresponds to the plane specified by the design. To eliminate possible inaccuracies, it is necessary to remove the cassette and achieve the desired result by means of an adjustable suspension.

When installing cassettes in super chrome color, it is necessary to use gloves included in the kit.
All ceiling utilies (ventilation, lamps, etc.) suitable for the ceiling plane shall not rely on the ceiling structure and are mounted on independent suspensions.

INSTALLATION OF GRILIATO SUSPENDED CEILINGS

PREPARATION FOR INSTALLATION

- prepare rough ceiling - clean, paint (prime), seal and process all seams and defects;
- complete all works on the rough ceiling and in the ceiling space (utility works, electrical installation, fire protection lines, air ducts, etc.);
- fix all utilities preventing them from falling and leaning on the suspended ceiling.

MARKING

- determine axes directions of bearing guides No. 1 (L = 2400 mm); marking is made either along the longest of the walls or parallel to the highest quality (flat) wall;
- the first axis of bearing guides No. 1 is marked parallel to the previously determined wall at a distance of 600 mm. All subsequent axes are marked parallel to the first axis with a pitch of 600 mm or 1200 mm, depending on the dimensions of the cell:
  - with a cell size of <86x86 mm, load-bearing guides No. 1 are installed with a pitch of 600 mm, the suspension pitch is 600x a mm (a<1200 mm) and guide No. 2 (1_=1200 mm) is not used in the ceiling frame;
  - with a cell size of 86x86 or more, bearing guides No. 1 are mounted with a pitch of 1200 mm, the suspension pitch is 1200xa (a<1200 mm);
- marking of installation points of adjustable suspensions is made according to the following conditions:
  - the installation points of adjustable suspensions shall be on the same line as the bearing guide;
  - the extreme attachment point of the suspension shall be marked from the maximum console condition (free-hanging extreme part of the guide) not more than 300 mm;
  - suspensions fastening pitch is set by the design, taking into account all parameters and additional loads on the ceiling (mats made of mineral fiber, insulating film, etc.); additional weight shall not exceed 2 kg/m2 of suspended ceiling;
- mark the location of elements cut into the suspended ceiling (lamps, engineering utilities, decor elements, etc.);
- on the level of the suspended ceiling agreed with the customer, perimeter profile mark is applied along the perimeter of the room. The level of the plane is determined relative to the horizon or available door and window openings.

ATTACHMENT OF SUSPENSIONS AND PERIMETER PROFILE

- the perimeter profile is attached to the wall according to the previously made marking. Brand of the fastening element depends on the wall material;
- fix the suspension to the rough bearing ceiling according to the marking made using special extension bolts. The brand of fastening element is determined by the design depending on the material of rough load-bearing ceiling and the brand of the suspended ceiling. Fastening is carried out in compliance with the following conditions:
  - the suspension shall be in an upright position and be perpendicular to the load-bearing of the suspended ceiling (deviation from the vertical shall not exceed 3 degrees).
  - connection of the suspension and the rough ceiling shall be hinged.

FRAME INSTALLATION

The frame of Grilliato ceiling consists of load-bearing guides No. 1, 2, 3 (L = 2400; 1200; 600 mm, respectively) and installation is made in the following sequence:

- Install bearing guides No. 1 on the suspensions, pin hook shall freely enter the opening of the supporting guide, holding the carrier on two sides and, at the same time, without deforming it;
- connection of carriers along the length is made by means of PG connector corresponding to this carrier (the protective film is removed immediately before the installation of the carrier);
- along the median axis of bearing guide No. 1, perpendicular to it, install guide No. 2 (the guide shall snap, having received a fixed position, the protective film is removed immediately before the carrier installation);
- along the median axis of bearing guide No. 2, perpendicular to it, install guide No. 3 (the guide shall snap, having received a fixed position, the protective film is removed immediately before the carrier installation);
- align the frame by means of adjustable suspensions to the design position;
- check the compliance of the frame plane with the specified design plane of the ceiling.

CELLS INSTALLATION

- remove the protective film from grid elements (male, female);
- assemble the grill (male, female elements), assemble the grids on a smooth surface with a cardboard base;
- install the grill in the supporting frame (the grid shall snap, obtaining a fixed position) observing the plane of the frame;
- verify the compliance of the grill plane with the plane specified by the design. To avoid possible inaccuracies, remove 600x600 cell and achieve the desired result by means of an adjustable suspension.

When installing super chrome guides, use gloves that are included in the kit.

All ceiling utilities (ventilation, lamps, etc.) suitable for the ceiling plane shall not rely on the ceiling structure and are mounted on independent suspensions.

PACKAGING AND STORAGE

LATH CEILING, PRODUCT RANGE

Product name	Number in packaging			Packaging size, mm		
	un.	lin. m.	kg	length	width	height
Italian design						
A84/A (open type)						
Lath A84/A L=3.00	44	132	16.14	3100	240	190
Lath A84/A L=4.00	44	176	21.50	4100	240	190
Layout						
Layout AS L=3.00	50	150	6.89	3100	115	90
Layout AS L=4.00	50	200	6.29	4100	115	90
A84/AC (closed type)						
Lath A84/AC L=3.00	44	132	19.02	3100	240	190
Lath A84/AC L=4.00	44	176	25.39	4100	240	190
Rack						
Rack BT-3-90 L=3.00	10	30	11.79	3000	30	70
Rack BT-3-90 L=4.00	10	40	15.72	4050	30	70
Rack BT-3-100 L=3.00	10	30	11.79	3000	30	70
Rack BT-3-100 L=4.00	10	40	12.4	4000	80	25
German design						
AN85/A (open type)						
Lath AN85/A L=3.00	50	150	16.03	3050	340	100
Lath AN85/A L=4.00	50	200	22.19	4050	340	100
Lath AN85/A L=3.00	72	216	22.85	3100	240	190
Lath AN85/A L=4.00	72	288	32.30	4100	240	190
AN135/A (open type)						
Lath AN135/A L=3.00	36	108	18.26	3100	240	190
Lath AN135/A L=4.00	36	144	22.40	4100	240	190
AN185/A (open type)						
Lath AN185/A L=3.00	28	84	22.68	3100	240	190
Lath AN185/A L=4.00	28	112	30.77	4100	240	190
Layout						
Layout ASN L=3.00	80	240	8.18	3100	115	90
Layout ASN L=4.00	80	320	10.96	4100	115	90
AN85/AC (closed type)						
Lath AN85/AC L=3.00	56	168	23.55	3100	240	190
Lath AN85/AC L=4.00	56	224	31.61	4100	240	190
AN135/AC (closed type)						
Lath AN135/AC L=3.00	36	108	22.01	3100	240	190
Lath AN135/AC L=4.00	36	144	28.47	4100	240	190
AN185/AC (closed type)						
Lath AN185/AC L=3.00	28	84	26.60	3100	240	190
Lath AN185/AC L=4.00	28	112	30.77	4100	240	190
Rack						
Rack BTN L=3.00	20	60	23.4	3000	110	80
Rack BTN L=4.00	20	80	34.54	4000	110	80
Omega						
A50/AT						
Lath A50/AT L=3.00	60	180	19.69	3100	240	190
A100/AT						
Lath A100/AT L=3.00	32	96	15.24	3100	240	190
Lath A100/AT L=4.00	32	128	20.62	4100	240	190
A150/AT						
Lath A150/AT L=3.00	22	66	13.31	3100	240	190
Lath A150/AT L=4.00	22	88	19.06	4100	240	190
Rack						
Rack BT-8 L=3.00	20	60	25.91	3000	30	80
Rack BT-8 L=4.00	20	80	34.54	4000	30	80
S-design						
A25/AS						
Lath A25/AS L=3.00	48	144	9.23	3100	115	95
Lath A25/AS L=4.00	48	192	12.73	4100	115	95
A100/AS						
Lath A100/AS L=3.00	30	90	13.28	3050	230	120
Lath A100/AS L=4.00	30	120	13.52	4050	230	120
Lath A100/AS L=4.00	32	128	27.23	4100	240	190
Lath A100/AS L=3.00	52	156	20.32	3100	240	190
Lath A100/AS L=4.00	52	208	31.52	4100	240	190

Product name	Number in packaging			Packaging size, mm		
	un.	lin. m.	kg	length	width	height
A150/AS						
Lath A150/AS L=3.00	30	90	17.41	3050	230	160
Lath A150/AS L=4.00	30	120	24.51	4050	230	160
Lath A150/AS L=3.00	32	96	19.52	3100	240	190
Lath A150/AS L=4.00	32	128	22.95	4100	240	190
Rack						
Rack BTS L=3.00	20	60	10.3	3100	100	25
Rack BTS L=4.00	20	80	13.7	4100	100	25
Designer's lath						
Lath A38/S L=3.00	48	144	16.51	3100	240	190
Lath A38/S L=4.00	48	192	22.65	4100	240	190
Lath A50/S L=3.00	36	108	26.73	3100	240	190
Lath A50/S L=4.00	36	144	28.31	4100	240	190
Lath A85/S L=3.00	24	72	26.79	3100	240	190
Lath A85/S L=4.00	24	96	40.25	4100	240	190
Lath A110/S L=3.00	20	60	26.87	3100	240	190
Lath A110/S L=4.00	20	80	39.51	4100	240	190
Lath A25/35/S L=3.00	70	210	23.08	3100	240	190
Lath A25/35/S L=4.00	70	280	30.43	4100	240	190
Lath A25/S L=3.00	60	180	15.98	3100	240	190
Lath A25/S L=4.00	60	240	29.89	4100	240	190
Lath A50/50/S L=3.00	16	48	24.76	3050	230	120
Lath A50/50/S L=4.00	16	64	32.80	4050	230	120
Lath A75/50/S L=3.00	12	36	20.52	3100	240	190
Lath A80/35/S L=3.00	24	72	13.20	3100	240	190
Lath A80/35/S L=4.00	24	96	16.56	4100	240	190
Lath A80/80/S L=3.00	12	36	19.40	3100	240	190
Lath A80/80/S L=4.00	12	48	14.20	4100	240	190
Lath A80/100/S L=3.00	8	24	8.29	3100	240	190
Lath A80/100/S L=4.00	8	32	11.08	4100	240	190
Lath A30/SV L=3.00	154	462		3100	240	190
Lath A30/SV L=4.00	154	616		4100	240	190
Lath A80/SV L=3.00	48	144	17.1	3100	240	190
Lath A80/SV L=4.00	48	192	22.85	4100	240	190
Lath A130/SV L=3.00	32	96	16.61	3100	240	190
Lath A130/SV L=4.00	32	128	22.14	4100	240	190
Lath A180/SV L=3.00	24	72	20.6	3100	240	190
Lath A180/SV L=4.00	32	128	42.11	4100	240	190
Lath A40/V L=3.00	27	81	9.63	3100	240	190
Lath A40/V L=4.00	27	108	12.85	4100	240	190
Lath A91/SP L=3,00	72	216	25.6	3100	240	190
Lath A91/SP L=4.00	72	288	34.17	4100	240	190
Layout						
Layout ASB-50 L=3.00	100	300	9.9	3100	106	87
Layout ASB-50 L=4.00	100	400	13.4	4100	106	87
Layout ASB-70 L=3.00	100	300	10	3100	106	87
Layout ASB-70 L=4.00	100	400	13.4	4100	106	87
Rack						
Rack BT-4-50 L=3.00	10	30	11.79	3000	80	30
Rack BT-4-50 L=4.00	10	40	13.6	4000	80	30
Rack BT-4-70 L=3.00	10	30	11.79	3000	80	30
Rack BT-4-70 L=4.00	10	40	13.6	4000	80	30
Rack BT-12-50 L=3.00	20	60	20	3000	80	30
Rack BT-12-50 L=4.00	20	80	20	4000	80	30

The indicated weight is averaged. It may vary depending on packaging, material and coating.

CASSETTE CEILING, PRODUCT RANGE

Product name	Number in packaging			Packaging size, mm		
	un.	lin. m.	kg	length	width	height
With visible suspension system						
Panel AP 600A6 aluminum	36		23.5	605	605	230
Panel AP 600A6 galvanized steel	22		15.08	605	605	145
T-profile						
Click Prim						
Profile T 24/29 Click Prim L=0.60	60	36	7.9	649	212	85
Profile T 24/29 Click Prim L=1.20	60	72	15.9	1244	212	85
Profile T 24/38 Click Prim L=3.70	20	74	19.5	3855	200	90
Profile T 24/38 Click Prim L=0.60	60	36	8.1	649	212	85
Profile T 24/38 Click Prim L=1.20	60	72	16.1	1244	212	85
Prim						
Profile T15/38 Prim L=0.60	92	55.2	12.1	649	212	85
Profile T 15/38 Prim L=1.20	92	110.4	24.5	1244	212	85
Profile T15/38 Prim L=3.70	26	96.2	20.7	3855	200	90
Albes						
Profile T 24/29 Albes L=0.60	60	36	5.75	649	212	85
Profile T 24/29 Albes L=1.20	60	72	11.57	1244	212	85
Profile T 24/29 Albes L=3.70	20	74	14.31	3855	200	90
Profile T15/29 Albes L=0.60	92	55.2	9.9	649	212	85
Profile T15/29 Albes L=1.20	92	110.4	11.12	1244	212	85

Product name	Number in packaging			Packaging size, mm		
	un.	lin. m.	kg	length	width	height
Profile T15/38 Albes L=3.70	26	96.2	20.1	3855	200	90
Profile T15/29 Albes L=0.30	92	27.6	5.03	35	212	85
Profile T15/38 Albes L=0.60	92	55.2	12.1	649	212	85
Profile T15/38 Albes L=1.20	92	110.4	24.5	1244	212	85
Norma						
Profile T-24 Norma L=0.60	60	54	7.3	649	212	85
Profile T-24 Norma L=1.20	60	72	11	1244	212	85
Economy						
Profile T 24/20 Economy L=0.60	90	54	8.41	649	212	85
Profile T 24/21.5 Economy L=1.20	90	108	15.12	1244	212	85
Profile T 24/25 Economy L=3.70	20	74	14.23	3855	200	90
With hidden suspension system						
Panel AP 600AC aluminum	14	12.96	10.5	610	635	220
Panel AP 600AC galvanized steel	14	7.92	19.5	610	635	220
Rack						
Rack BT-600 L=300	10	30	12.96	3000	120	40
Rack BT-600 L=400	10	40	17.2	4000	120	40

RASTER CEILING GRILIATO, PRODUCT RANGE

Product name	**Female profile**	**Male profile**	**Guides**		
			0.6 m	**1.2 m**	**2.4 m**
	units in a box/weight, kg				
h30 b5	500/23.1	500/23.4	500/24.0	300/27.8	200/37.9
h30 b10	416/14.2	416/14.0	416/14.3	180/15.5	120/21.2
h40 b10	312/19.2	312/19.0	312/19.4	120/14.8	80/19.7
h50 b10	260/19.0	260/18.8	260/19.2	90/13.4	60/18.1
h35 b10 pyramidical	150/10.0	150/9.9	150/10.2	51/6.0	42/10.1
h42,5 b10 pyramidical	108/8.1	108/7.8	108/8.0	42/6.1	30/9.0
h37 b15 GL15	192/11.7	192/11.5	600/15.1 (L profile)	–	–
h47 b15 GL15	160/11.1	160/10.9			
h30 b10 split level	416/29.5	416/29.5	260/18.5	90/12.9	60/17.1
h30 b10 shutters		416/29.5	–	–	–
h50 b10 shutters	90/12.9	–	–	90/12.9	–
PL 19x19	–	–	70	45	100
PL 19x24	–	–	45	45	100
PL 25x25	–	–	–	10	50
PLL	–	–	–	40	40
Angle RPP-18	–	–	–	–	50

Each product range is packed in boxes based on the product length.
0.6 m — 610x285x255 mm, 1.2 m — 1210x160x160 mm, 2.4 m — 2410x120x175 mm.

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For notes