

# Suspension system



## Features of suspension systems

Metal suspension system on visible grid system of trade mark “Albes” are applied in building and repair of public, production and ancillary buildings and constructions, also in medical institutions. The ceilings allow operation in rooms with a temperature up to +90 degrees in humidity zone (СНиП 23-02-2003) of dry, normal and damp. Thus, degree of aggression of the environment is allowed (СНиП 2.03.11-85) nonaggressive and slightly aggressive.

Technical characteristics are listed in the table:

Characteristic	Meaning	Comment
Allowable temperature of exploitation	Up to +90 degrees	
Allowable Area humidity	Dry, middle, wet	According to CNaR 23-20-2003
Allowable degree of aggressive environment	Nonaggressive, slightly aggressive	According to CNaR 2.03.11.85
Fire Prevention Class	KM 0, KM1	According to CNaR 21-01-97
Guarantee, years	10	Subject to operating conditions

## It is important to know!

The application of the ceiling on a grid system in areas with high humidity there are a number of requirements, obligatory for execution:

1. Suspensions should be additionally painted;
2. Steel ceiling panels must be painted by powder paint.

These measures allow achieving high corrosion resistance and durability of decorative coat.

From all materials which are used in production RPO “Albes” and having a smooth surface, the material with code of color A741a02 has no protective varnish covering and because of that, the products from this material have restrictions in application under the terms of operation. In particular, it isn't allowed hit of moisture on a front surface of products from this material.

The production, made from material A741a02, must to be operated in the enclosed space according to Construction Norms and Regulations 23-02-2003 with temperature and humidity of the air 12-24 degrees and 60-75%. The degree of aggressiveness of the environment must be nonaggressive according to Construction Norms and Regulations 2.03.11-85. It isn't allowed using of products from this material in rooms, where it is possible:

- a direct hit of moisture on the surface of the mirror,
- the formation of droplets of condensation on the mirror surface,
- allocation of vapor corrosive substances (for example, chlorine compound from chlorinated water).

 It isn't allowed using the products from the material with code of color A741a02 on the open air.

 It is forbidden to use the suspended system T-24 “Albes”, T-24 Norma, T-24 E, in rooms with high humidity!

# Range

## suspension systems T-profile

Brand system	The width of the visible part of the profile, mm	Type of connection	Material	Lock type	Profile sizes	Color performance	Load capacity*, kg/m <sup>2</sup>	Availability of fire compensator	Grade of combustibility
<b>T-15 ALBES STRUNA</b>	14,5	Buttock	Steel with protective coating	One-piece chiselled	L=3,6 14,5/41,5 L=1,2 14,5/41,5 L=0,6 14,5/41,5	All colors RAL	15	+	Low flammability
<b>T-24 CLICK PRIM</b>	24	Lapped	Steel with protective coating	Separately stamped «CLICK» 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	+	Inflammability
					L=3,7 24/38 L=1,2 24/29 L=0,6 24/29	All colors RAL	14,5	+	Inflammability
<b>T-24 ALBES EURO</b>	24	Lapped	Steel with protective coating	One-piece chiselled	L=3,7 24/38 L=1,2 24/29 L=0,6 24/29 L=0,3 24/29	All colors RAL	13,5	+	Inflammability
<b>T-24 PRIM Line</b>	24	Buttock	Steel with protective coating	«Hook» special locking	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	+	Inflammability
<b>T-15 PRIM</b>	15	Buttock	Steel with protective coating	«Hook» special locking	L=3,7 15/38 L=1,2 15/38 L=0,6 15/38 L=0,3 15/38	All colors RAL	13,5	+	Inflammability
				One-piece chiselled	L=3,7 15/38 L=1,2 15/29 L=0,6 15/29 L=0,3 15/29	All colors RAL	12	+	Inflammability
<b>T-15 «ALBES»</b>	15	Lapped	Steel with protective coating	One-piece chiselled	L=3,7 15/38 L=1,2 15/29 L=0,6 15/29 L=0,3 15/29	All colors RAL	12	+	Inflammability
<b>T-24 «ALBES»</b>	24	Lapped	Steel with protective coating	One-piece chiselled	L=3,7 24/29 L=1,2 24/29 L=0,6 24/29	White mat. Metallic Gold Super chrome	8	+	Inflammability
<b>T-24 NORMA</b>	24	Lapped	Steel with protective coating	One-piece chiselled	L=3,7 24/29 L=1,2 24/25 L=0,6 24/20	White mat. Metallic Gold Super chrome	7	+	Low flammability
<b>T-24 E</b>	24	Lapped	Steel with protective coating	One-piece chiselled	L=3,7 24/25 L=1,2 24/21,5 L=0,6 24/20	White mat.	4,3	-	Low flammability

\* The bearing ability is specified for the scheme of mounting №4 and determined by a special technique RPO «Albes».

The carrying capacity of the suspension system can be increased by applying a different mounting scheme and increasing the number of suspensions used per 1 m<sup>2</sup>.

# Terms and designations

## suspension systems T-profile

Indicator	Characteristic	Drawing
Incision and the visible width of the t-profile	24 mm 15 mm 14,5 mm	
Height T-profile	41,5 mm 38 mm 29 mm 25 mm 24 mm 21, 5 mm 20 mm	
Length plank	3700 (3600, 3750)* mm 1200 (1250)* mm 600 (625)* mm 300 mm	
Lock type	a) Separately stamped spring steel b) «Hook» special locking c) One-piece chiselled	
Type of connection	a) Lapped b) Buttock	
Availability of fire compensator	To comply with the flammability class of the product — Inflammability	
Puklevka	Connection of two metal bands to increase profile stiffness	
Edge stiffness	Affects bearing capacity	

\* These sizes are indicated for the profile T-15 ALBES STRUNA.

# Suspension system T-15 ALBES STRUNA

## System features

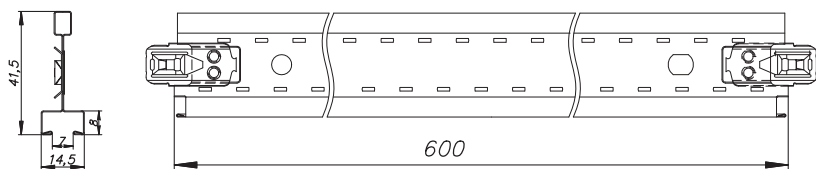
- The increased bearing ability
- The unique system of the latched castle connections «CLICK»
- High corrosion resistance
- Grade of combustibility — **Low flammability**
- It is convenient at mounting
- Repeated connection and separation of profiles without using of the special tool
- Possibility of placement of additional LED lighting and auxiliary elements in visible part of a profile

## Specifications

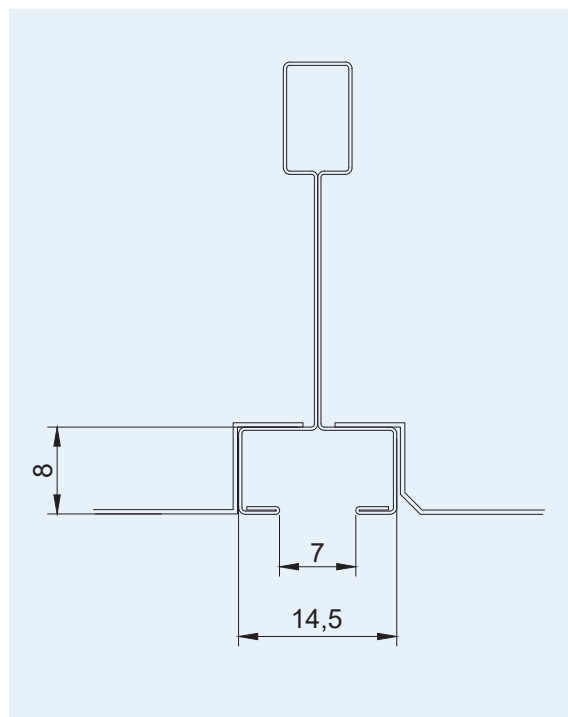
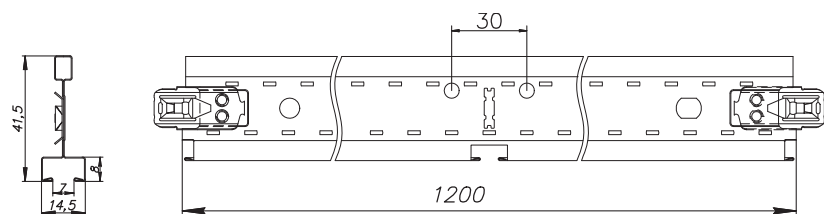
Width caps, mm	14,5		
Profile length, mm	3600	1200	600
Height of profile, mm	41,5	41,5	41,5
Lock type	Separately stamped spring steel		
Type of connection	Buttock		
Material	Steel with protective coating		
Operating temperature	Above + 90 °C		
Area humidity	Dry, normal, wet		
Grade of combustibility	Low flammability		
Degree aggressiveness of the environment	Non-aggressive, slightly aggressive		
Load capacity*	up to 15 kg per m <sup>2</sup>		
Recommended the arrangement	4, 5, 7, 8, 10		

\* The bearing ability is specified for the scheme of mounting №4 and determined by a special technique RPO "Albes".

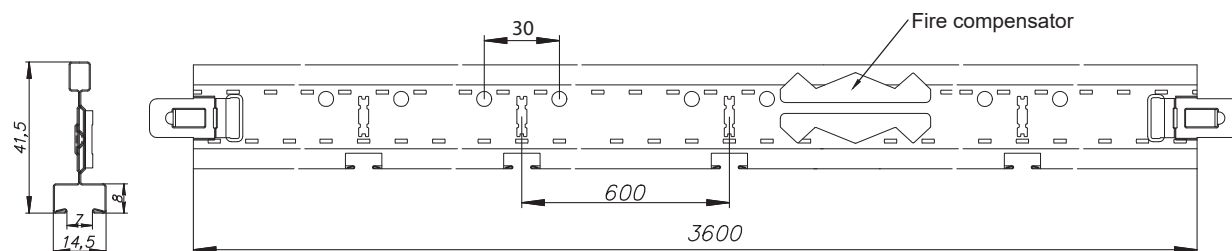
## Transverse guide rail 14,5/41,5 L=600



## Transverse guide rail 14,5/41,5 L=1200



## Carrier guide 14,5/41,5 L=3600



# Suspension system T-24 CLICK PRIM

## increased bearing capacity

### System features

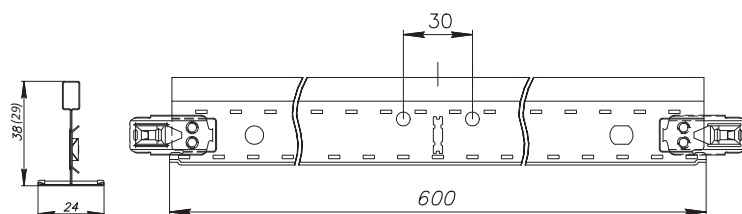
- The increased bearing ability
- The unique system of the latched castle connections «CLICK»
- High corrosion resistance
- Grade of combustibility — **Inflammability**
- It is convenient at mounting
- Repeated connection and separation of profiles without using of the special tool
- Color RAL

### Specifications

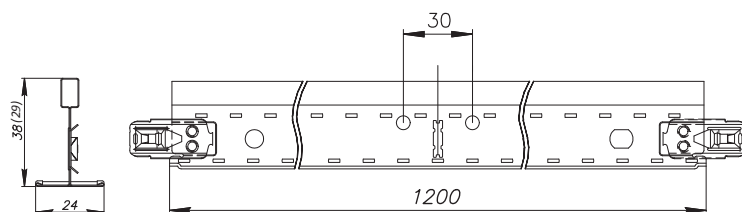
Width caps, mm	24	
Profile length, mm	3700	1200 600
Height of profile, mm	38	29 (38) 29 (38)
Lock type	One-piece chiselled	Separately stamped spring steel
Type of connection	Lapped	
Material	Steel with protective coating	
Operating temperature	Above + 90 °C	
Area humidity	Dry, normal, wet	
Grade of combustibility	Inflammability	
Degree aggressiveness of the environment	Non-aggressive, slightly aggressive	
Load capacity*	up to 15 kg per m <sup>2</sup>	
Recommended the arrangement	4-11	

\* The bearing ability is specified for the scheme of mounting №4 and determined by a special technique RPO "Albes".

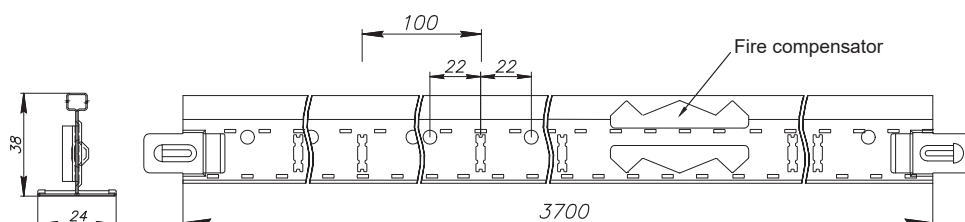
### Transverse guide rail 24/29, 24/38 L=600



### Transverse guide rail 24/29, 24/38 L=1200



### Carrier guide 24/38 L=3700



# Suspension system T-24 Albes Euro

## System features

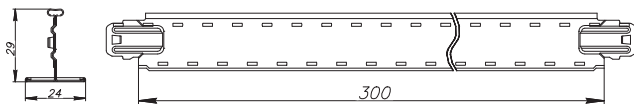
- In the configuration of the profile length 300 mm
- High corrosion resistance
- Grade of combustibility — **Inflammability**
- High load capacity — up to 13,5 kg per 1 m<sup>2</sup>
- Color RAL
- It is convenient at mounting

## Specifications

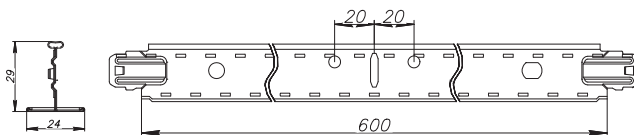
Width caps, mm	24			
Profile length, mm	3700	1200	600	300
Height of profile, mm	38	29	29	29
Lock type	One-piece chiselled			
Type of connection	Lapped			
Material	Steel with protective coating			
Operating temperature	Above + 90 °C			
Area humidity	Dry, normal, wet			
Grade of combustibility	Inflammability			
Degree aggressiveness of the environment	Non-aggressive, slightly aggressive			
Load capacity*	up to 13,5 kg per 1 m <sup>2</sup>			
Recommended the arrangement	1-11			

\* The bearing ability is specified for the scheme of mounting №4 and determined by a special technique RPO "Albes".

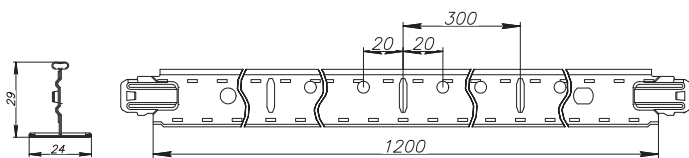
## Transverse guide rail 24/29 L=300



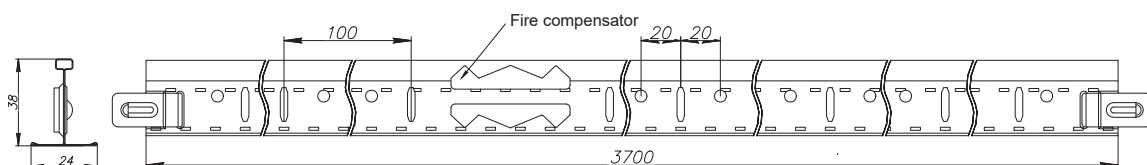
## Transverse guide rail 24/29 L=600



## Transverse guide rail 24/29 L=1200



## Carrier guide 24/38 L=3700



# Suspension system T-24 PRIM Line

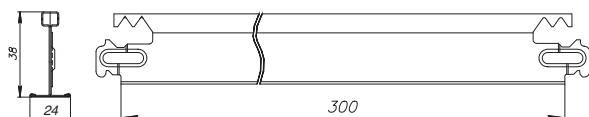
## System features

- In the configuration of the profile length 300 mm
- Connection of profiles is made at the butt
- High corrosion resistance
- Grade of combustibility — **Inflammability**
- High load capacity — up to 13,5 kg per 1 m<sup>2</sup>
- Color RAL
- Special hook lock
- It is convenient at mounting

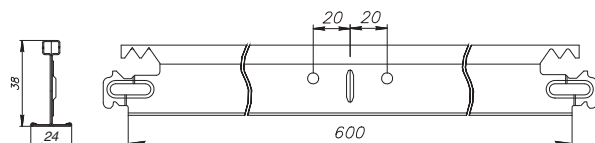
## Specifications

Width caps, mm	24			
Profile length, mm	3700	1200	600	300
Height of profile, mm	38	38	38	38
Lock type	«Hook» special locking			
Type of connection	Buttock			
Material	Steel with protective coating			
Operating temperature	Above + 90 °C			
Area humidity	Dry, normal, wet			
Grade of combustibility	Inflammability			
Degree aggressiveness of the environment	Non-aggressive, slightly aggressive			
Load capacity*	up to 13,5 kg per 1 m <sup>2</sup>			
Recommended the arrangement	1–11			

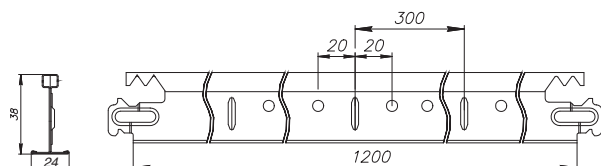
## Transverse guide rail 24/38 L=300



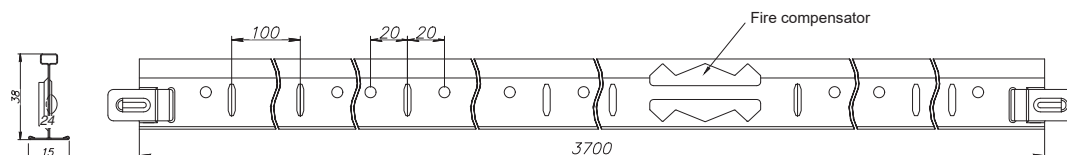
## Transverse guide rail 24/38 L=600



## Transverse guide rail 24/38 L=1200



## Carrier guide 24/38 L=3700



\* The bearing ability is specified for the scheme of mounting №4 and determined by a special technique RPO "Albes".



# Suspension system T-15/38 PRIM

## System features

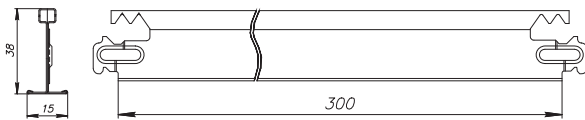
- In the configuration of the profile length 300 mm
- It is used for mounting panels Grigliato GL-15
- Connection of profiles is made at the butt
- High corrosion resistance
- Grade of combustibility — **Inflammability**
- High load capacity — up to 13,5 kg per 1 m<sup>2</sup>
- Color RAL
- Special hook lock
- It is convenient at mounting

## Specifications

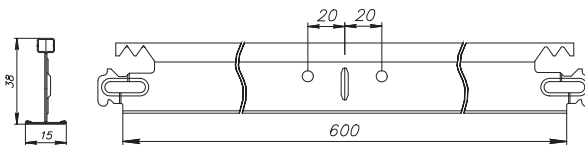
Width caps, mm	15			
Profile length, mm	3700	1200	600	300
Height of profile, mm	38	38	38	38
Lock type	«Hook» special locking			
Type of connection	Buttock			
Material	Steel with protective coating			
Operating temperature	Above + 90 °C			
Area humidity	Dry, normal, wet			
Grade of combustibility	Inflammability			
Degree aggressiveness of the environment	Non-aggressive, slightly aggressive			
Load capacity*	up to 13,5 kg per 1 m <sup>2</sup>			
Recommended the arrangement	1-11			

\* The bearing ability is specified for the scheme of mounting №4 and determined by a special technique RPO "Albes".

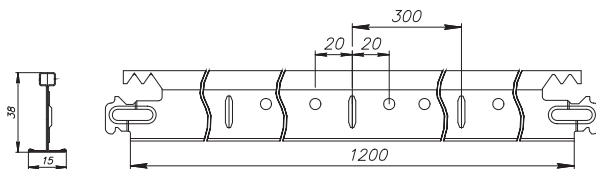
## Transverse guide rail 15/38 L=300



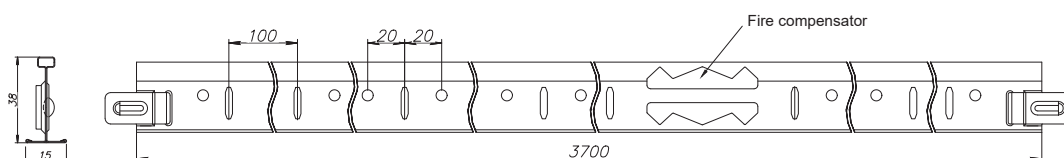
## Transverse guide rail 15/38 L=600



## Transverse guide rail 15/38 L=1200



## Carrier guide 15/38 L=3700



# Suspension system T-15/29 PRIM

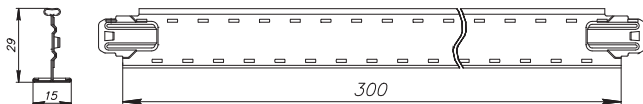
## System features

- In the configuration of the profile length 300 mm
- It is used for mounting panels Grigliato GL-15
- Connection of profiles is made at the butt
- High corrosion resistance
- Grade of combustibility — **Inflammability**
- High load capacity — up to 12 kg per 1 m<sup>2</sup>
- Color RAL
- It is convenient at mounting

## Specifications

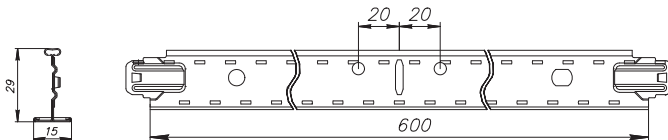
Width caps, mm	15			
Profile length, mm	3700	1200	600	300
Height of profile, mm	38	29	29	29
Lock type	One-piece chiselled			
Type of connection	Buttock			
Material	Steel with protective coating			
Operating temperature	Above + 90 °C			
Area humidity	Dry, normal, wet			
Grade of combustibility	Inflammability			
Degree aggressiveness of the environment	Non-aggressive, slightly aggressive			
Load capacity*	up to 12 kg per 1 m <sup>2</sup>			
Recommended the arrangement	1-11			

## Transverse guide rail 15/29 L=300

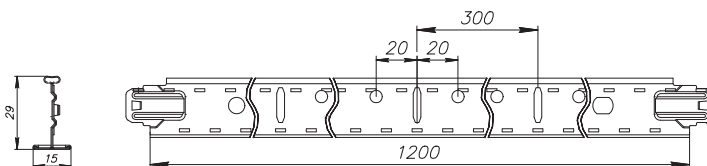


\* The bearing ability is specified for the scheme of mounting №4 and determined by a special technique RPO "Albes".

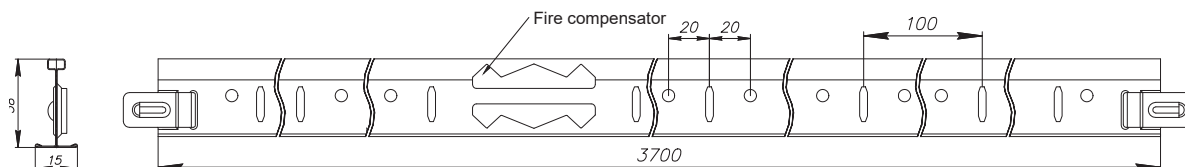
## Transverse guide rail 15/29 L=600



## Transverse guide rail 15/29 L=1200



## Carrier guide 15/38 L=3700



# Suspension system T-15 Albes

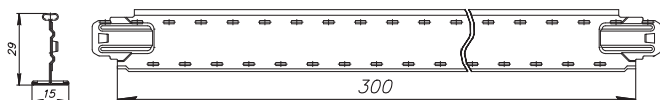
## System features

- In the configuration of the profile length 300 mm
- Profiles are overlapped
- High corrosion resistance
- Grade of combustibility — **Inflammability**
- Load capacity — up to 12 kg per 1 m<sup>2</sup>
- One-piece chiselled zamok
- It is convenient at mounting
- Color RAL

## Specifications

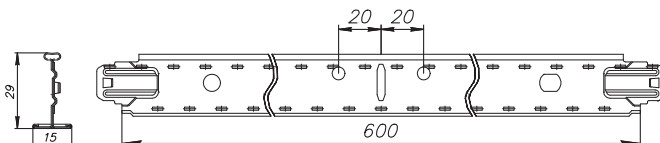
<b>Width caps, mm</b>	15			
<b>Profile length, mm</b>	3700	1200	600	300
<b>Height of profile, mm</b>	38	29	29	29
<b>Lock type</b>	One-piece chiselled			
<b>Type of connection</b>	Lapped			
<b>Material</b>	Steel with protective coating			
<b>Operating temperature</b>	Above + 90 °C			
<b>Area humidity</b>	Dry, normal, wet			
<b>Grade of combustibility</b>	Inflammability			
<b>Degree aggressiveness of the environment</b>	Non-aggressive, slightly aggressive			
<b>Load capacity*</b>	up to 12 kg per 1 m <sup>2</sup>			
<b>Recommended the arrangement</b>	1-11			

## Transverse guide rail 15/29 L=300

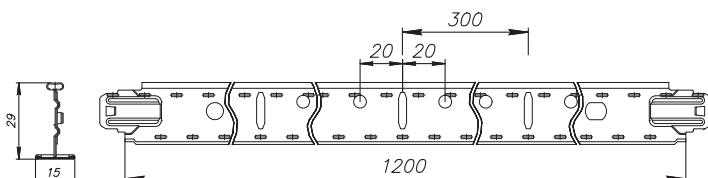


\* The bearing ability is specified for the scheme of mounting №4 and determined by a special technique RPO "Albes".

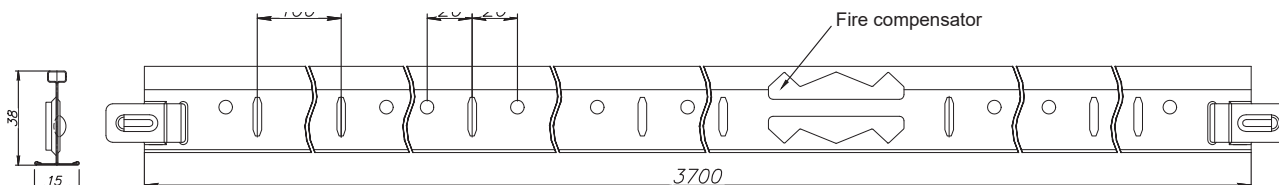
## Transverse guide rail 15/29 L=600



## Transverse guide rail 15/29 L=1200



## Carrier guide 15/38 L=3700



# Suspension system T-24 Albes

## System features

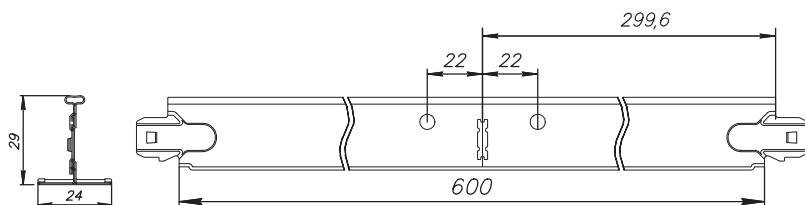
- Profiles are overlapped
- Grade of combustibility — **Inflammability**
- Load capacity — up to 8 kg per 1 m<sup>2</sup>
- One-piece chiselled
- It is convenient at mounting

## Specifications

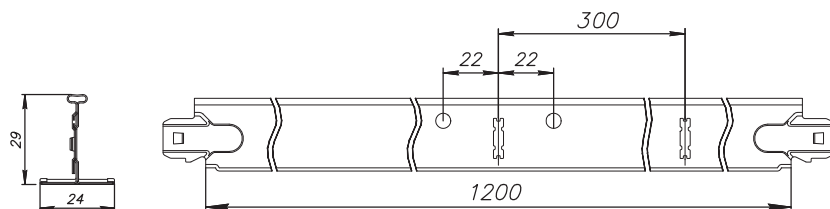
Width caps, mm	24		
Profile length, mm	3700	1200	600
Height of profile, mm	29	29	29
Lock type	One-piece chiselled		
Type of connection	Lapped		
Material	Steel with protective coating		
Operating temperature	Above + 90 °C		
Area humidity	Dry, normal, wet		
Grade of combustibility	Inflammability		
Degree aggressiveness of the environment	Non-aggressive, slightly aggressive		
Load capacity*	up to 8 kg per 1 m <sup>2</sup>		
Recommended the arrangement	4-11		

\* The bearing ability is specified for the scheme of mounting №4 and determined by a special technique RPO "Albes".

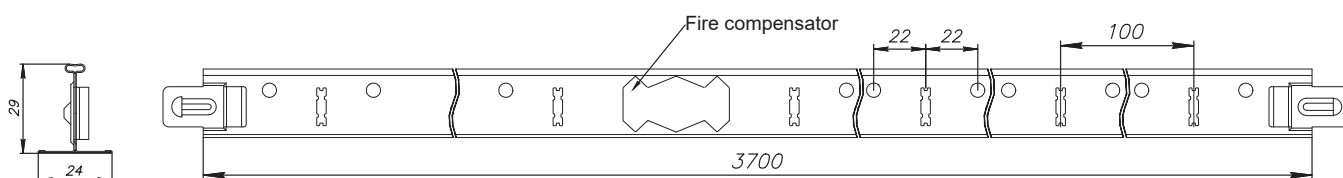
## Transverse guide rail 24/29 L=600



## Transverse guide rail 24/29 L=1200



## Carrier guide 24/29 L=3700



# Suspension system T-24 NORMA

## System features

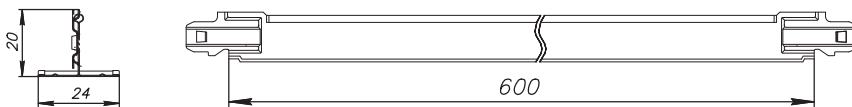
- Profiles are overlapped
- Grade of combustibility — **Low flammability**
- High load capacity — up to 7 kg per 1 m<sup>2</sup>
- One-piece chiselled zamok
- It is convenient at mounting
- The optimum ratio of price and quality

## Specifications

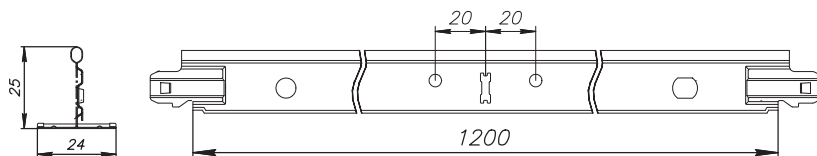
Width caps, mm	24		
Profile length, mm	3700	1200	600
Height of profile, mm	29	25	20
Lock type	One-piece chiselled		
Type of connection	Lapped		
Material	Steel with protective coating		
Operating temperature	Above + 90 °C		
Area humidity	Dry, normal, wet		
Grade of combustibility	Low flammability		
Degree aggressiveness of the environment	Non-aggressive, slightly aggressive		
Load capacity*	up to 7 kg per 1 m <sup>2</sup>		
Recommended the arrangement	4-9		

\* The bearing ability is specified for the scheme of mounting №4 and determined by a special technique RPO "Albes".

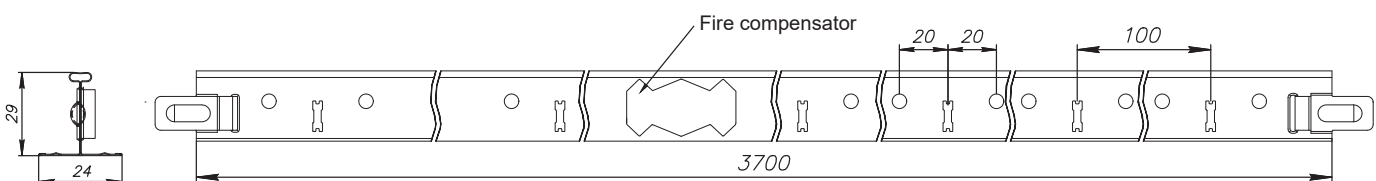
## Transverse guide rail 24/20 L=600



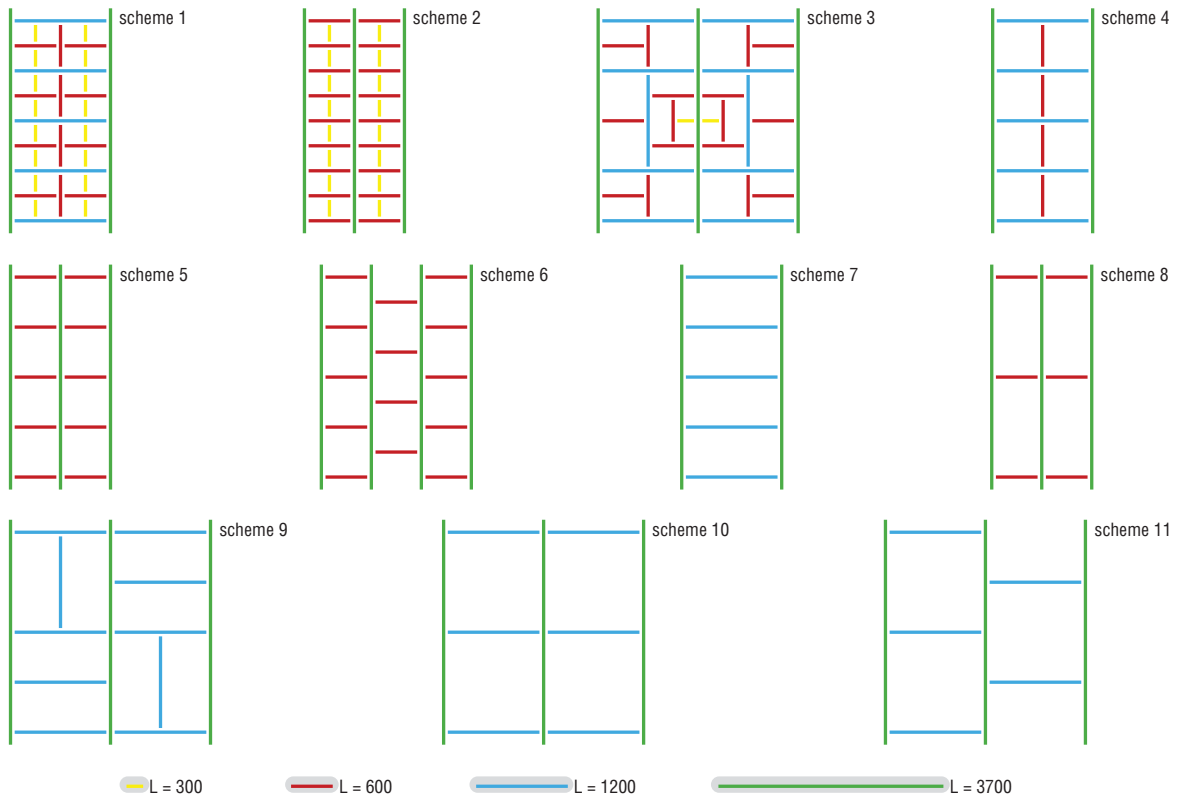
## Transverse guide rail 24/25 L=1200



## Carrier guide 24/29 L=3700



## Recommended the arrangement



№ scheme	Brand system								
	T-15 ALBES STRUNA	T-24 CLICK PRIM	T-24 ALBES EURO	T-24 PRIM Line	T-15 PRIM	T-15 Albes	T-24 Albes	T-24 NORMA	T-24 E
1			•	•	•	•			
2			•	•	•	•			
3			•	•	•	•			
4	•	•	•	•	•	•	•	•	•
5	•	•	•	•	•	•	•	•	•
6		•	•	•	•	•	•	•	•
7	•	•	•	•	•	•	•	•	
8	•	•	•	•	•	•	•	•	
9		•	•	•	•	•	•	•	
10	•	•	•	•	•	•	•		
11		•	•	•	•	•	•		

## Expense on 1 m<sup>2</sup>

№ scheme	Carrier guides, L				Hanger AP	Nonius suspension	Angle element PL 19x24, PLL
	3700 mm	1200 mm	600 mm	300 mm			
1	0,83 p.m.	1,67 p.m.	2,55 p.m.	1,67 p.m.	0,7 piece	0,7 piece	for calculation
2	1,67 p.m.	—	3,33 p.m.	1,67 p.m.	1,4 piece	1,4 piece	
3	for calculation	for calculation	for calculation	for calculation	for calculation	for calculation	
4	0,83 p.m.	1,67 p.m.	0,83 p.m.	—	0,7 piece	0,7 piece	
5	1,67 p.m.	—	1,67 p.m.	—	1,4 piece	1,4 piece	
6	1,67 p.m.	—	1,67 p.m.	—	1,4 piece	1,4 piece	
7	0,83 p.m.	1,67 p.m.	—	—	0,7 piece	0,7 piece	
8	1,67 p.m.	—	0,83 p.m.	—	1,4 piece	1,4 piece	
9	0,83 p.m.	1,67 p.m.	—	—	0,7 piece	0,7 piece	
10	0,83 p.m.	0,83 p.m.	—	—	0,7 piece	0,7 piece	
11	0,83 p.m.	0,83 p.m.	—	—	0,7 piece	0,7 piece	



\* NEW! Nonius suspension for the T-profile is used for the frameworks of the suspended systems T-15 and T-24, except T-24 E (Economy). Designed for heavy ceiling panels, as well as when used on sites with high wind and seismic loads.