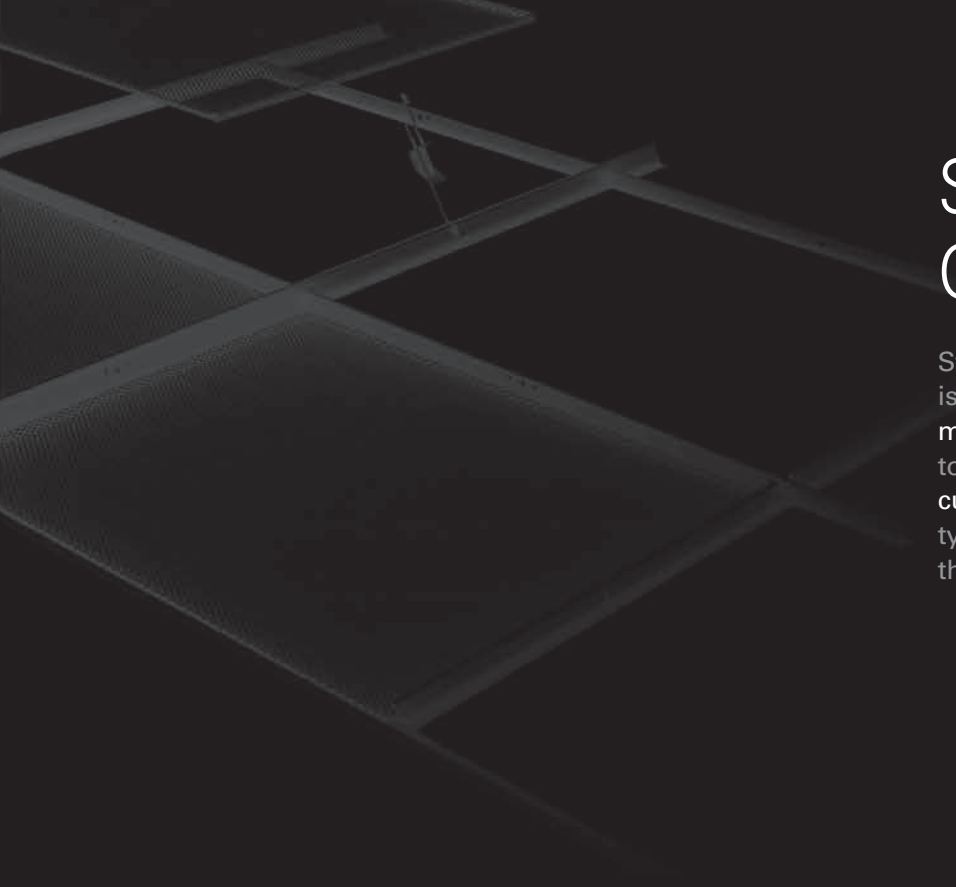
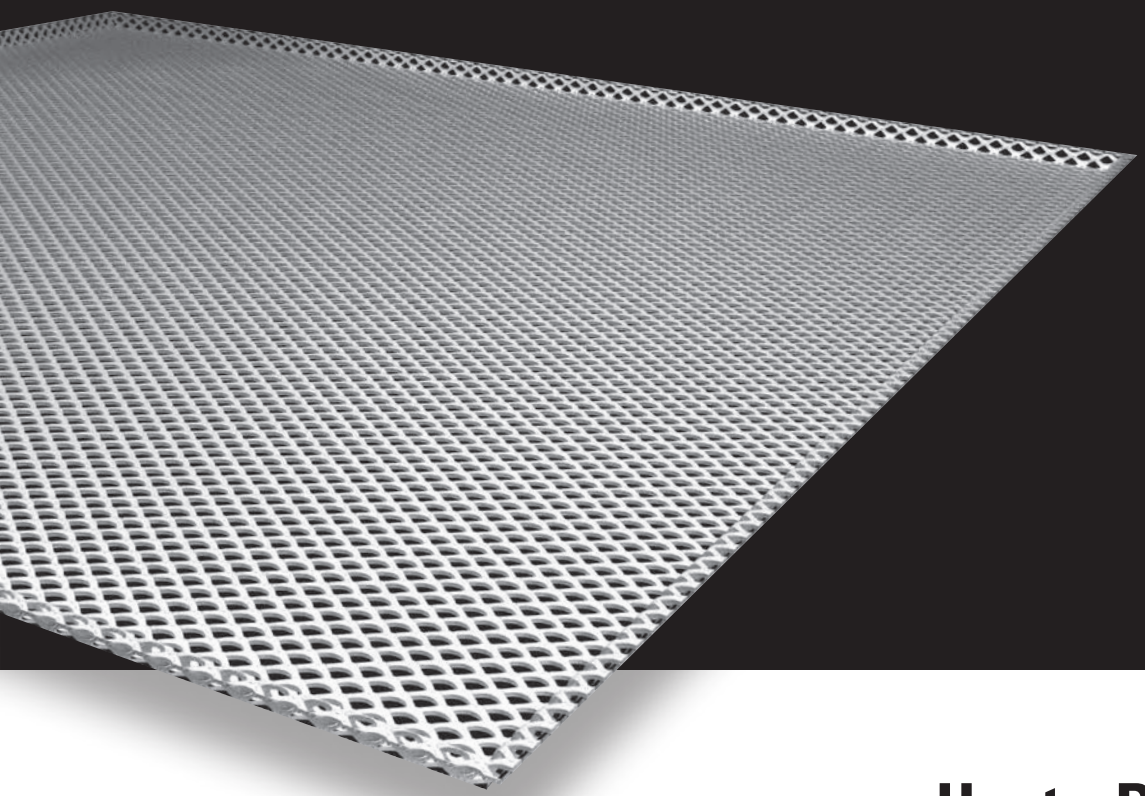


Stretch Metal Ceilings

Stretch Metal from Hunter Douglas is a highly versatile designer material giving extra visual effects to ceilings. It is very easy to customise ceilings by varying the types of mesh, their arrangement, the lighting and the colour.



HunterDouglas Architectural

Stretch Metal

Striking visual effects

AESTHETIC DESIGN

Stretch Metal from Hunter Douglas is a versatile architectural design material that provides striking visual effects. It is easy to create unique ceiling designs by variation in mesh types, mesh direction, lighting and colours.

Variation in ceiling design is easy if one keeps in mind that:

- The openness of the ceiling depends on the choice of mesh size and mesh pattern
- A change of mesh direction gives another incidence of light and therefore a different visual appearance
- Luminaries above the Stretch Metal ceiling create lighting patterns and shadow effects.

COLOURS AND FINISHES

There is a large selection of RAL colours available. In addition to these colours, there are several special metallic colours and chrome in the program. The complete program of panels, grids, bandraster profiles and edge profiles can be finished in one colour for a uniform looking ceiling.

QUALITY

Our focus on quality (TAIM standard) ensures the highest standard of production process, material, machinery and finished product. The superior durability of Hunter Douglas products translates into lower costs during the life cycle of the product.

No matter your style, our ceilings have the looks you love. Whatever your project's needs, our Stretch Metal ceilings give you the freedom to think inside or outside the box.

CONTENT Page

PROVEN FIRE SAFETY

All Stretch Metal ceiling systems have earned a high reaction to fire classification according to EN 13501-1, in official fire tests at CSI, Bollate (Milan) - an independent Italian fire research institute.

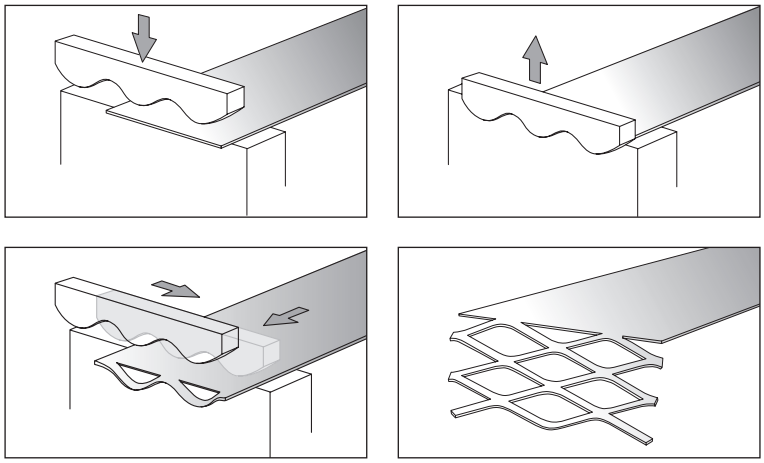
For more information visit
www.hunterdouglasarchitectural.eu

Designed to work for you

alu FE TAIM HunterDouglas

Mesh Types Tiles & Planks

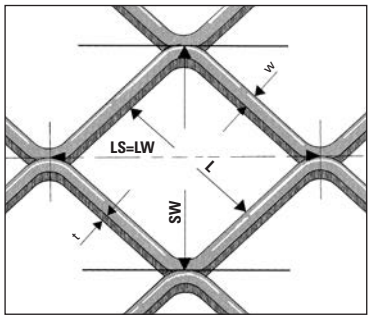
Stretch Metal consists of metal sheet with diamond or square shaped holes. The stretch metal material is made with a tool that simultaneously cuts and stretches the sheets. As a result the mesh is created without any waste of material.



MESH TYPES

Standard

The standard mesh types are a square mesh (LS) or a diamond shaped mesh (LD) with a variation in openness of the mesh. The range starts with the smallest LS6/LD6 up to LS16. All mesh types are available in steel, with types LS8 and LS12 also available in aluminium.

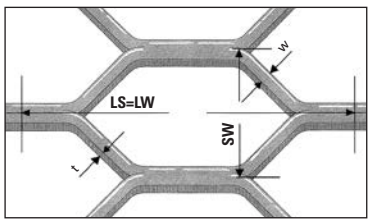


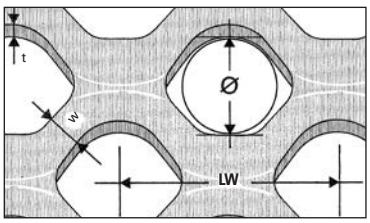
Key

LS = LW
LW = Long diagonal of mesh
SW = Short diagonal of mesh
W = Strand width
t = Strand Thickness
L = Inner size

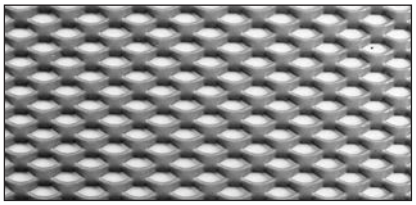
Special

Several other mesh types are available on request, depending on technical requirements and availability. Hexagonal mesh, Round mesh and Ornamental meshes are examples of the possibilities.

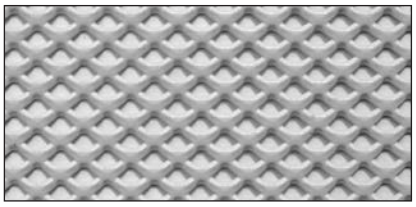




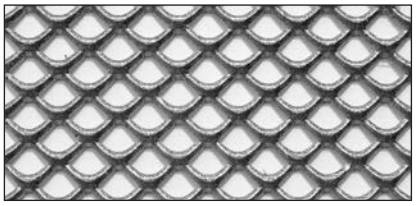
Standard mesh types:



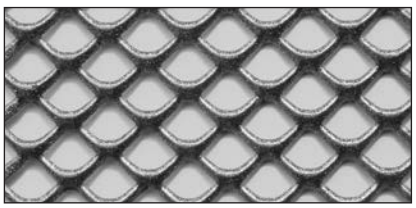
LD6 (Fe) open area 40%, thickness 1.7 mm
dimensions: 6 x 3.5 - 1.1 x 0.8 - 1.6 kg/m^2



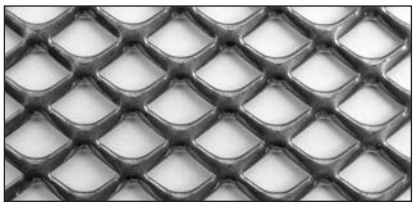
LS6 (Fe) open area 36%, thickness 1.7 mm
dimensions: 6 x 4.5 - 1.2 x 1.0 - 1.3 kg/m^2



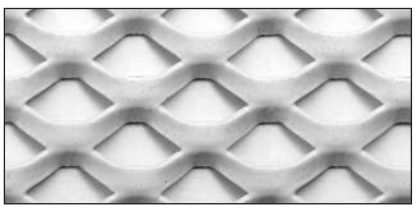
LS8 (Fe+Al) open area 54%, thickness 1.9 mm
dimensions: 8 x 6.0 - 1.2 x 1.0 - 1.7 kg/m^2



LS10 (Fe) open area 57%, thickness 2.0 mm
dimensions: 10 x 7.0 - 1.5 x 1.0 - 1.3 kg/m^2



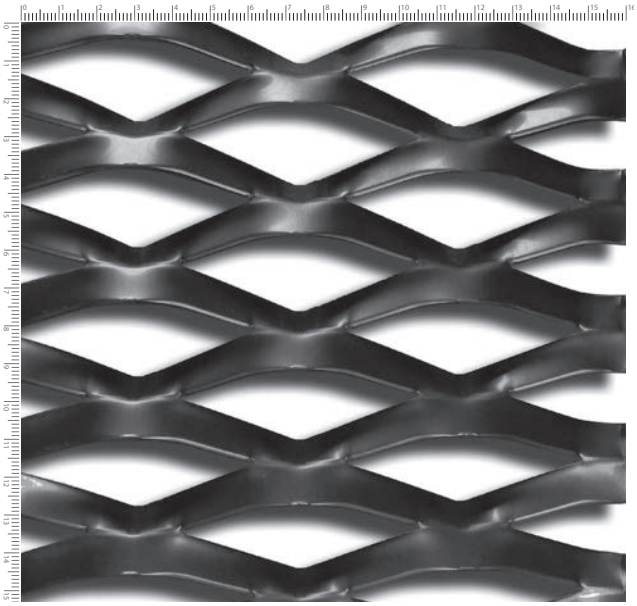
LS12 (Fe+Al) open area 66%, thickness 2.0 mm
dimensions: 12 x 9.5 - 1.6 x 1.0 - 1.7 kg/m^2



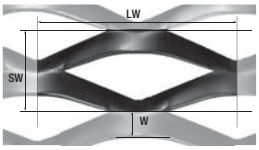
LS16 (Fe) open area 46%, thickness 2.0 mm
dimensions: 16 x 11.0 - 3.0 x 2.0 - 2.0 kg/m^2

Macro Meshes Planks

NEW YORK: dimensions: 85 x 35 - 11 x 2 (Scale 1:2)

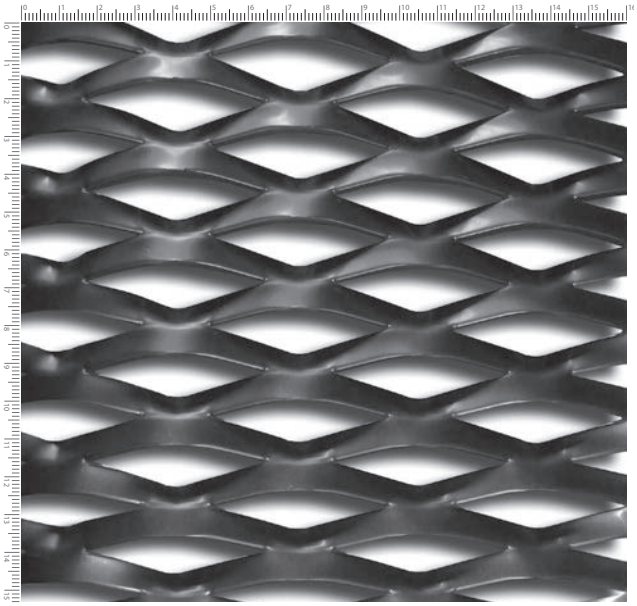


Features	Aluminium	Steel
LW mm	85	85
SW mm	35	35
W mm	11	11
t mm	2	2
Weight kg/m²	2.6/3.4	7.8/10.2
% opening	48%	48%
Colour	RAL	Galvanised
	Anodised	RAL

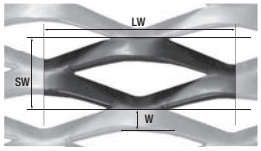


Mesh dimensions
LW = Long diagonal **W** = Width
SW = Short diagonal **t** = Thickness

DUBAI: dimensions: 62 x 23 - 8 x 1.5 (Scale 1:2)

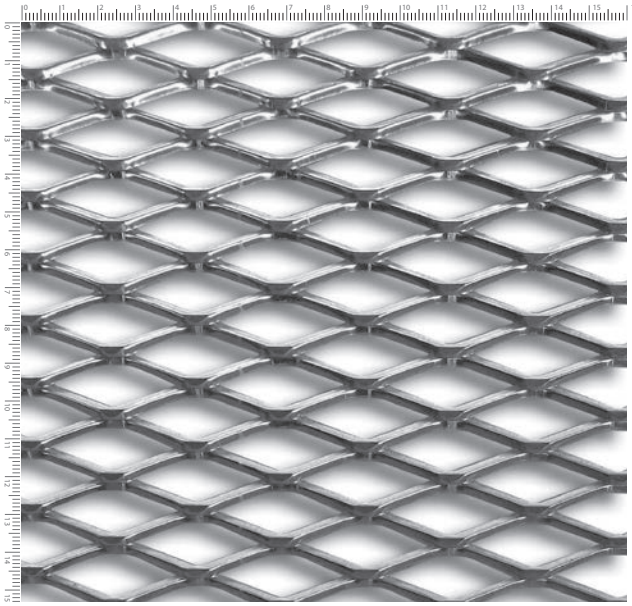


Features	Aluminium	Steel
LW mm	62	62
SW mm	23	23
W mm	8	8
t mm	1.5	1.5
Weight kg/m²	2.7/3.6	8.2/11.2
% opening	36%	36%
Colour	RAL	Galvanised
	Anodised	RAL

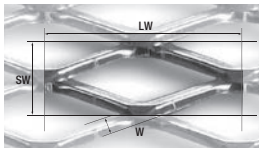


Mesh dimensions
LW = Long diagonal **W** = Width
SW = Short diagonal **t** = Thickness

MOSCOW: dimensions: 28 x 10 - 2 x 1.5 (Scale 1:2)

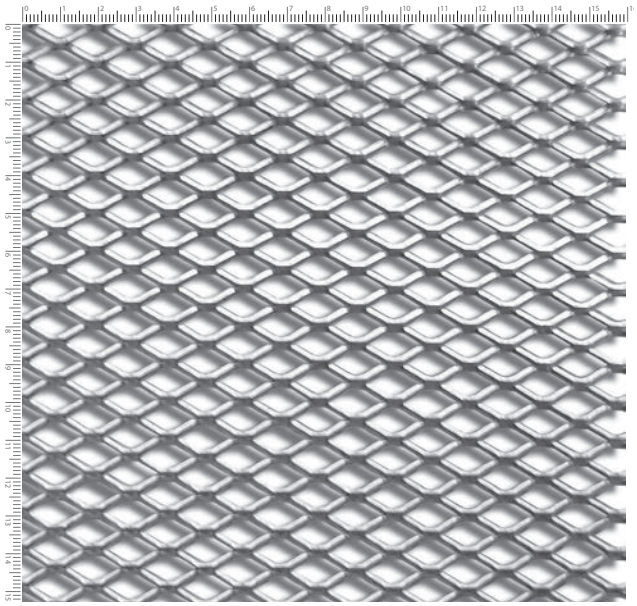


Features	Aluminium	Steel
LW mm	28	28
SW mm	10	10
W mm	2	2
t mm	1.5	1.5
Weight kg/m²	1.7/2.4	4.2/6.4
% opening	55%	55%
Colour	RAL	Galvanised
	Anodised	RAL

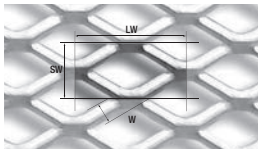


Mesh dimensions
LW = Long diagonal **W** = Width
SW = Short diagonal **t** = Thickness

ROTTERDAM: dimensions: 20 x 10 - 2.5 x 1.0 (Scale 1:2)



Features	Aluminium	Steel
LW mm	20	20
SW mm	10	10
W mm	2.5	2.5
t mm	1.0	1.0
Weight kg/m²	2.4	5.4
% opening	50%	50%
Colour	RAL	Galvanised
	Anodised	RAL

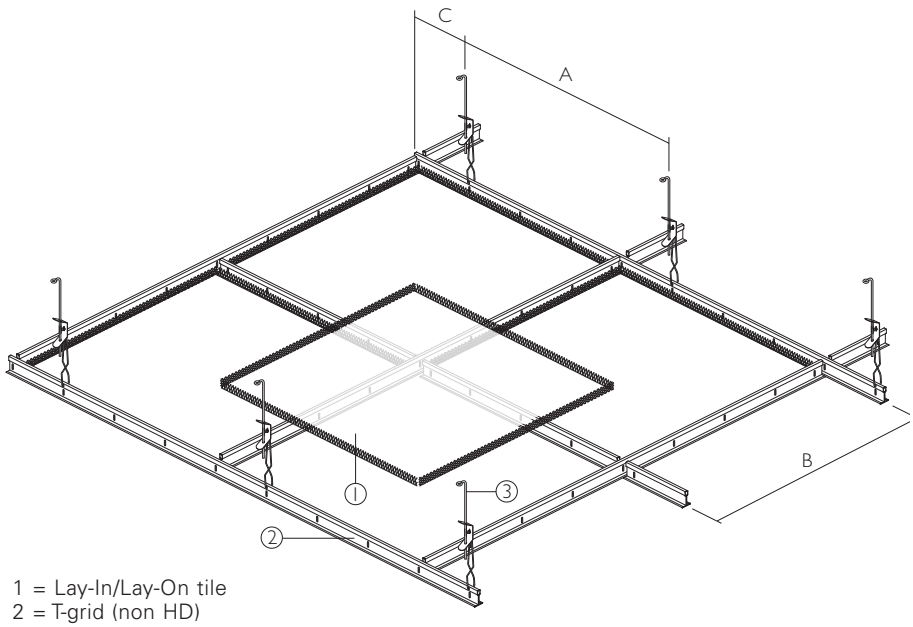


Mesh dimensions
LW = Long diagonal **W** = Width
SW = Short diagonal **t** = Thickness

Lay-In / Lay-On

TILES

Lay-In/Lay-On tiles are designed to be installed on conventional T-grid systems (T-profiles widths 15 and 24 mm). Stretch Metal tiles on T-profiles enhance the modular design pattern.
By using wider grids or deeper recesses more distinctive patterns are created. They are ideal for situations where regular maintenance or service is required to the installations in the ceiling plenum. By pushing the tile upwards into the plenum and moving it sideways it is easy to gain access to the plenum without the use of tools. Before selecting this system care should be taken that there is enough space to lift the tiles upwards. Another benefit is that accessories like light fixtures and airconditioning grills are easily integrated in the system.



1 = Lay-In/Lay-On tile
2 = T-grid (non HD)
3 = Hangers (non HD)

A = 1200 mm (max.)
B = Module
C = 250 mm (max.)

DIMENSIONS

	Lay-In				Lay-On	
Lay-In / Lay on	**15/8**	**24/8**	**24/0**	**15/8**	**15**	**24**
Types	-	-	-	15 mm Channel Grid*	-	-
Grid	15 mm	24 mm	24 mm	15 mm	15 mm	24 mm
Reveal	8 mm	8 mm	0 mm	-	0 mm	0 mm
Module in mm:	600 x 600	600 x 600	600 x 600	600 x 600	600 x 600	600 x 600

**T-profile with integrated fixing possibility*

OVERVIEW AVAILABLE EXECUTIONS / MAXIMUM DIMENSIONS

		T15 Profile			T24 Profile		
Mesh Type	**% Open**	**Lay-On**	**8 mm Reveal**	**Channel Grid**	**Lay-On**	**0 mm Reveal**	**8 mm Reveal**
LD6	40	✓	✓	✓	✓	✓	✓
LS8	54	✓	✓	✓	✓	-	✓
LS10	57	✓	✓	✓	✓	-	✓
LS12	66	✓	-	-	✓	-	-
LS16	46	✓*	-	-	✓	-	-

*Press-braked

MATERIAL REQUIREMENT PER M²

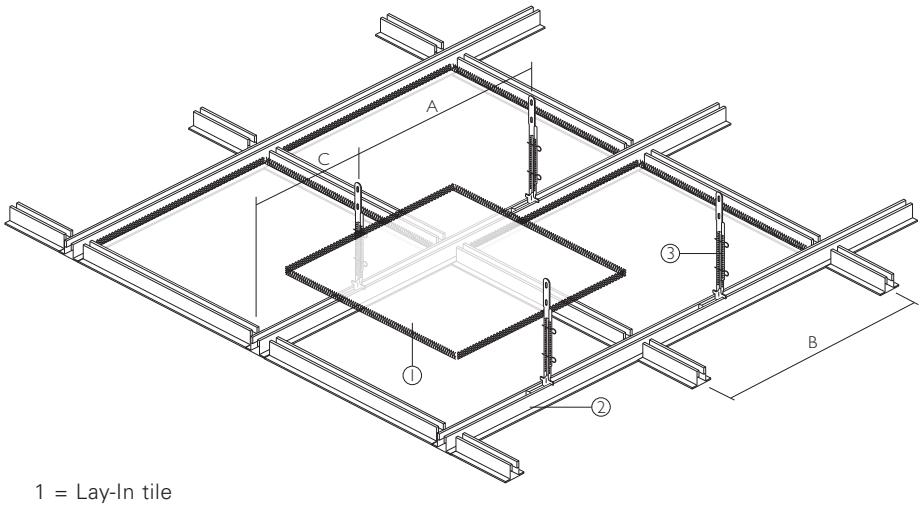
		Al/Fe
Components	**Unit**	**600 x 600 mm**
Stretch Metal Lay-in/ Lay-on	pcs	2.78
Grid profile (non-HD)	lm	3.33
Suspension (non-HD)	pcs	0.69

Lay-In Bandraster

TILES

Lay-In tiles can also be used installed on Bandraster system (50-100 mm). By pushing the tile upwards it is easy to gain access to the plenum without the use of tools.

Stretch Metal tiles are ideal for solutions where either a high level of acoustic absorption is required or where visual and physical transparency of the ceiling is requested. The systems are also ideal for solutions where regular access into the plenum is required. Because each tile has flanges that simply rest on the bandraster profiles, the access to the plenum is achieved by lifting the tile up into the area above the ceiling.



1 = Lay-In tile
2 = Bandraster (non HD)
3 = Hangers (non HD)

A = 1200 mm (max.)
B = Module
C = 250 mm (max.)

DIMENSIONS

Lay-In/ Lay-On	50 mm	100 mm
Types	Bandraster	(Steel only/ welded edges only)
Grid	50 mm	100 mm
Reveal	0 mm	-
Module in mm:	625 x 625	1000 x 1000

OVERVIEW AVAILABLE EXECUTIONS / MAXIMUM DIMENSIONS

		50 mm bandraster		100 mm bandraster
Mesh Type	**% Open**	**Lay-On**	**0 mm reveal**	**Lay-On**
LD6	40	✓	✓	✓
LS8	54	✓	-	✓
LS10	57	✓	-	✓
LS12	66	flat sheets	-	flat sheets
LS16	46	flat sheets	-	flat sheets

MATERIAL REQUIREMENT PER M²

		Al/Fe	Fe Only
Components	**Unit**	**625 x 625 mm**	**1000 x 1000 mm**
Stretch Metal Lay-in	pcs	2.56	1.00
Grid profile (non-HD)	lm	3.20	2.00
Cross connector (non-HD)	pcs	5.12	2.00
Suspension (non-HD)	pcs	1.33	0.83

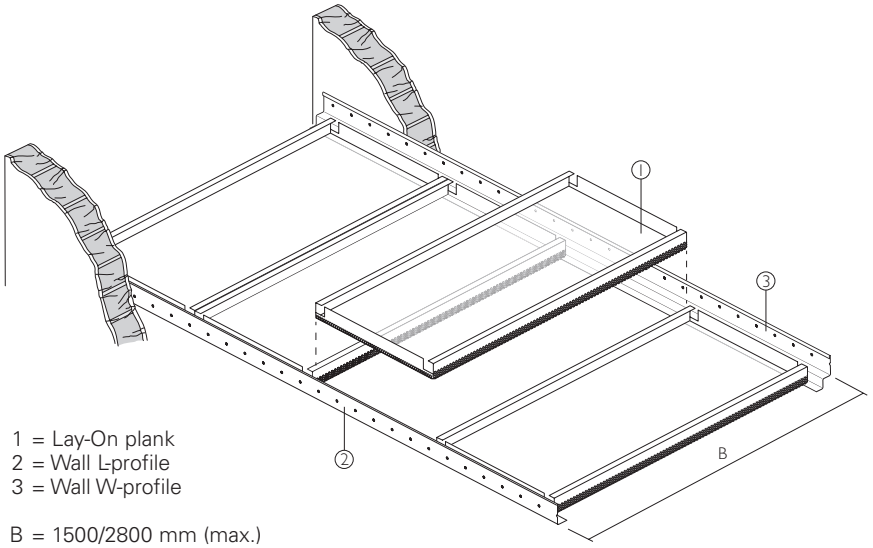
Lay-On Corridor

PLANKS

Stretch Metal planks designed to be installed on conventional wall angle profiles. The planks can be lifted and easily removed without the aid of tools. The panels are recyclable, lightweight and strong.

SUSPENSION

The panels are supported at their ends by wall angle profiles (2 & 3). The panels have straight upstands at the panel ends. Depending on panel length the panel sides are re-inforced with spot-welded steel angle profiles.



1 = Lay-On plank
2 = Wall L-profile
3 = Wall W-profile

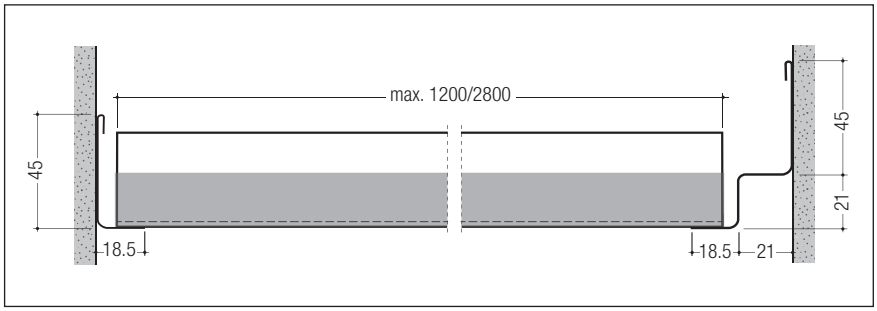
B = 1500/2800 mm (max.)

CONSTRUCTION DETAILS

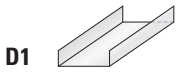
Steel L or W shaped edge profiles can be used as perimeters.

BASE MATERIAL

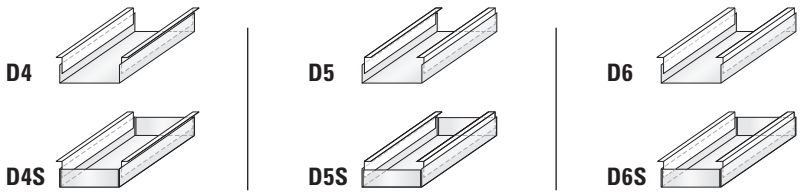
Stretch Metal planks are available in steel. The Stretch Metal plank (Version-I) can be re-inforced with a welded support profile on the inside (Version-II).



Version-I: Stretch Metal



Version-II: Stretch Metal with welded support profile



OVERVIEW AVAILABLE EXECUTIONS / MAXIMUM DIMENSIONS

Mesh Type	% Open	Version-I, no reinforcement: D1	Version-II, with reinforcement: D4-D6/D4S-D6S
LS6	40	500 x 1200 mm	600 x 2800 mm
LD6	40	500 x 1200 mm	600 x 2800 mm
LS8	54	500 x 1200 mm	600 x 2800 mm
LS10	57	500 x 1200 mm	600 x 2800 mm
LS12	66	500 x 1200 mm	600 x 2800 mm
LS16	46	500 x 1200 mm	600 x 2800 mm

Remark: due to differences in deflection, one shall never mix Version-I and Version-II panels in one area

MATERIAL REQUIREMENT PER M²

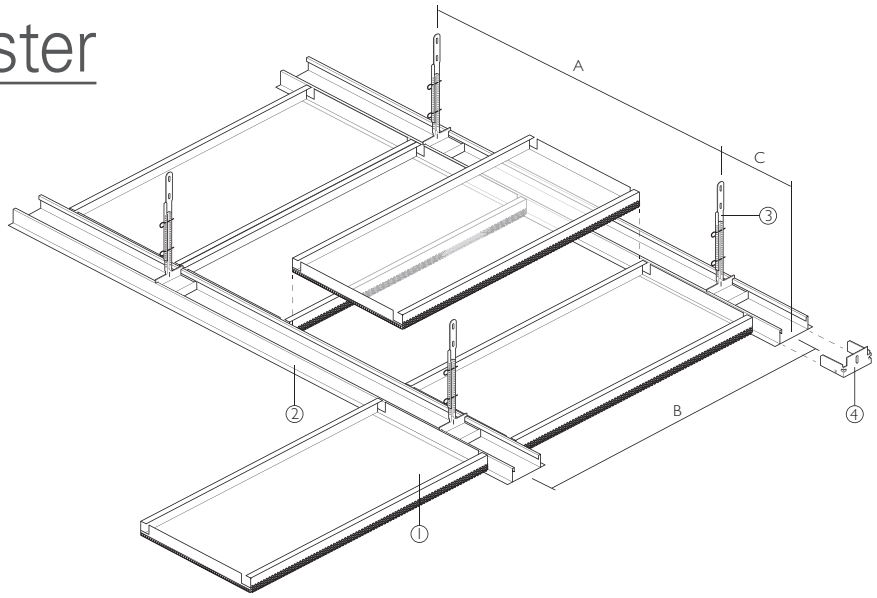
		Fe	
Components	**Unit**	**Version-I, max. 500 x 1200 mm**	**Version-II, max. 600 x 2800 mm**
Stretch Metal Lay-on	pcs	1.67	0.59
Edge trim profile L/W	lm	1.67	0.71

Lay-On Bandraster

PLANKS

Stretch Metal planks designed to be installed on conventional bandraster profiles. The planks can be lifted and easily removed without the aid of tools. The panels are recyclable, lightweight and strong.

Bandraster systems are ideally suited for office environments where there may be a requirement for frequent moving of partition walls. The bandraster profiles are also perfect to take up sound attenuating constructions above the ceiling.



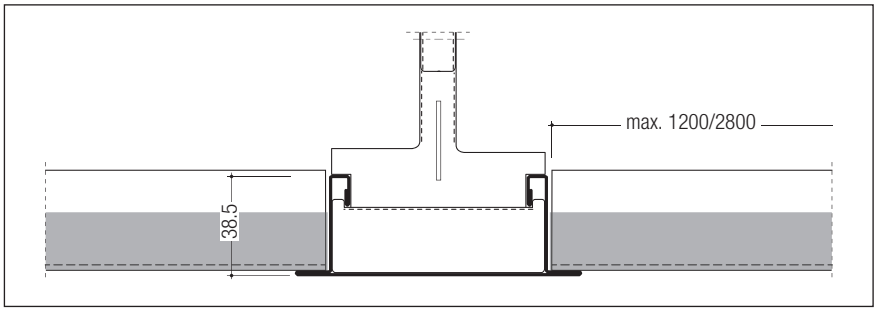
1 = Lay-On Plank
2 = Bandraster profile (non HD)
3 = Suspension (non HD)
4 = Wall bracket (non HD)

A = 1200 mm (max.)
B = Module
C = 250 mm (max.)

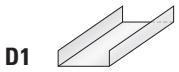
CONSTRUCTION DETAILS

BASE MATERIAL

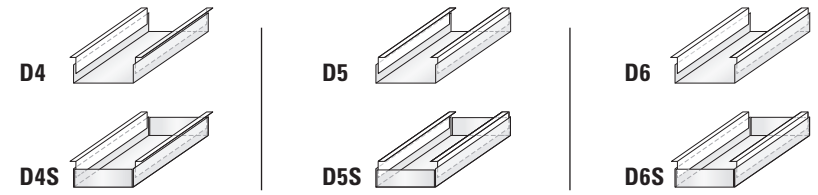
Stretch Metal planks are available in steel. The Stretch Metal plank (Version-I) can be re-inforced with a welded support profile on the inside (Version-II).



Version-I: Stretch Metal



Version-II: Stretch Metal with welded support profile



OVERVIEW AVAILABLE EXECUTIONS / MAXIMUM DIMENSIONS

Mesh Type	% Open	Version-I, no reinforcement: D1	Version-II, with reinforcement: D4-D6/D4S-D6S
LS6	40	500 x 1200 mm	600 x 2800 mm
LD6	40	500 x 1200 mm	600 x 2800 mm
LS8	54	500 x 1200 mm	600 x 2800 mm
LS10	57	500 x 1200 mm	600 x 2800 mm
LS12	66	500 x 1200 mm	600 x 2800 mm
LS16	46	500 x 1200 mm	600 x 2800 mm

Remark: due to differences in deflection, one shall never mix Version-I and Version-II panels in one area

MATERIAL REQUIREMENT PER M²

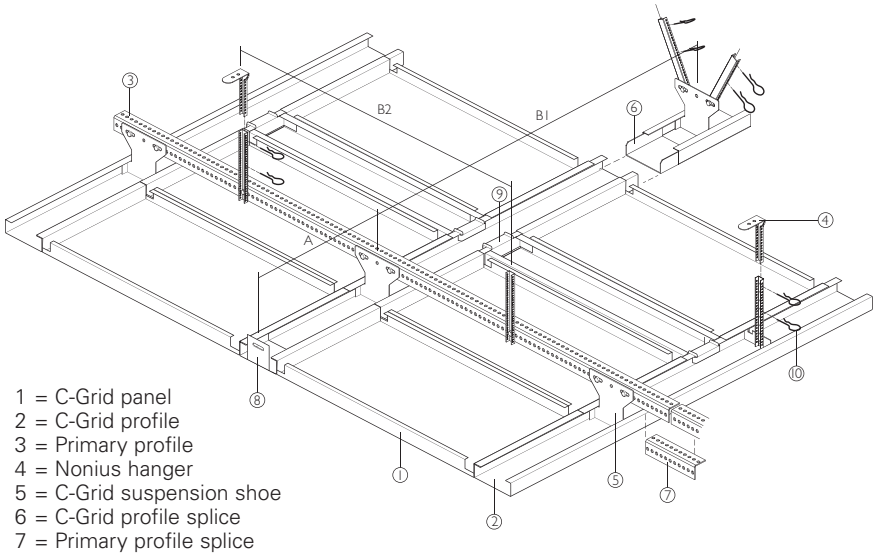
		Fe	
Components	**Unit**	**Version-I, max. 500 x 1200 mm**	**Version-II, max. 600 x 2800 mm**
Stretch Metal Lay-on	pcs	1.67	0.59
Bandraster profile (non-HD)	lm	0.83	0.36
Bandraster splice (non-HD)	pcs	0.23	0.10
Suspension (non-HD)	pcs	0.69	0.30

C-Grid

PLANKS

Stretch Metal planks designed to be installed on conventional C-Grid profiles. The planks can be lifted and easily removed without the aid of tools. The steel panels are recyclable, lightweight and strong.

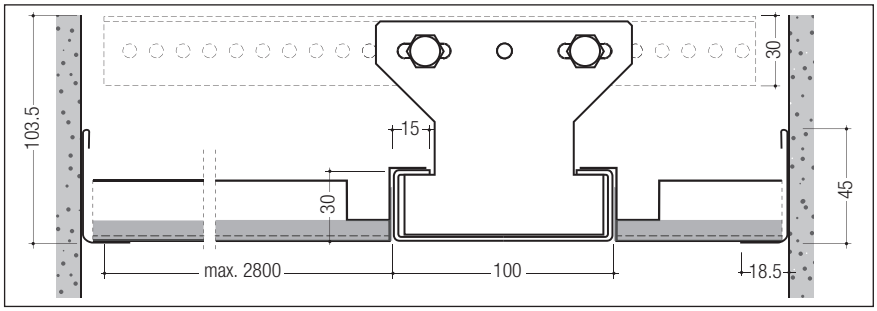
Applications are similar to Bandraster systems. The difference being the flush connection of the panels with the C-Grid profiles. By using 'cross runners', the c-grid profiles can also easily be installed in a tartan-grid design.



1 = C-Grid panel
2 = C-Grid profile
3 = Primary profile
4 = Nonius hanger
5 = C-Grid suspension shoe
6 = C-Grid profile splice
7 = Primary profile splice
8 = Wall bracket
9 = Cross connector
10 = Locking clips

A = 300 mm (max.)
B1 = 1200 mm (max.)
B2 = 1200 mm (max.)

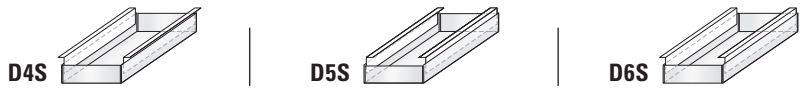
CONSTRUCTION DETAILS



BASE MATERIAL

Stretch Metal planks are available in steel. The Stretch Metal planks are strengthened with a welded support profile inside (Version-II).

Version-II: Stretch Metal with welded support profile



OVERVIEW AVAILABLE EXECUTIONS / MAXIMUM DIMENSIONS

Mesh Type	% Open	Version-II, with reinforcement: D4S-D6S
LS6	40	600 x 2800 mm
LD6	40	600 x 2800 mm
LS8	54	600 x 2800 mm
LS10	57	600 x 2800 mm
LS12	66	600 x 2800 mm
LS16	46	600 x 2800 mm

Remark: due to differences in deflection, one shall never mix Version-I and Version-II panels in one area

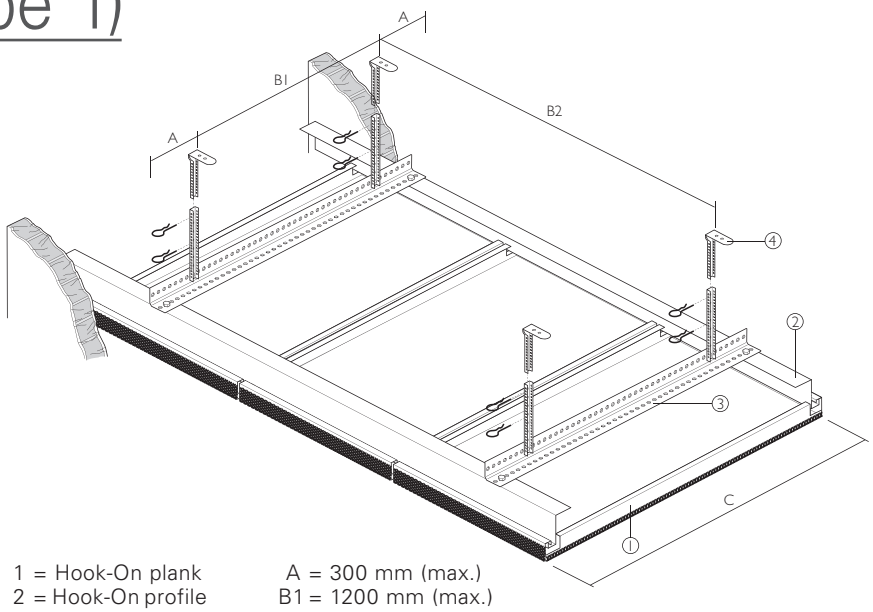
MATERIAL REQUIREMENT PER M²

		Fe
Components	**Unit**	**Version-II, max 600 x 2800 mm**
Stretch Metal C-Grid	pcs	0.59
C-Grid profile	lm	0.36
C-Grid profile splice	pcs	0.07
Primary angle profile	lm	0.83
Primary angle profile splice	pcs	0.17
Suspension	pcs	0.69
Suspension shoe	pcs	0.30

Hook-On A (Type 1)

PLANKS

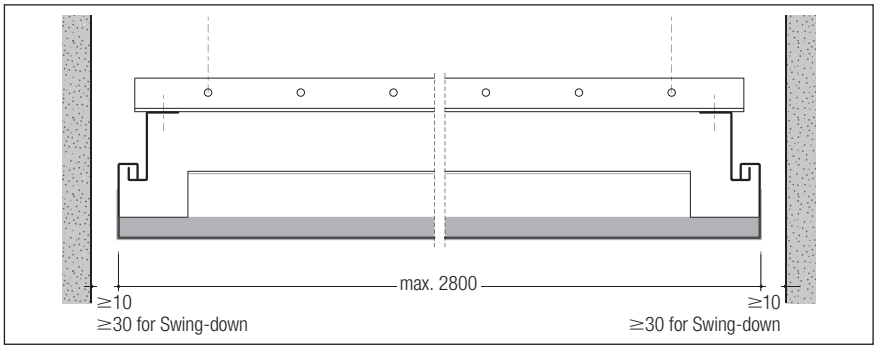
Stretch Metal planks designed to be installed on hook-on profiles. This system is designed for corridor applications without visible wall angle profiles, creating a free-floating impression. All individual panels are easily demounted by lifting them from the hook-on profiles. The Type 1 panels are made from finer mesh and bended over the edges. The edges are re-inforced with spot welded angle profiles on the long and short sides. Stretch Metal planks are ideal for solutions where either a high level of acoustic absorption is required or where visual and physical transparency of the ceiling is requested. The systems are also ideal for solutions where regular access into the plenum is required.



1 = Hook-On plank
2 = Hook-On profile
3 = Primary profile
4 = Suspension

A = 300 mm (max.)
B1 = 1200 mm (max.)
B2 = 1200 mm (max.)
C = 2800 mm (max.)

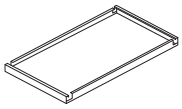
CONSTRUCTION DETAILS



BASE MATERIAL

Stretch Metal planks are available in steel. The Stretch Metal planks are strengthened with a welded support profile inside (Version-II)

Version-II: Stretch Metal with welded support profile



OVERVIEW AVAILABLE EXECUTIONS / MAXIMUM DIMENSIONS

Mesh Type	% Open	Version-II, with reinforcement
LS6	40	600 x 2800 mm
LD6	40	600 x 2800 mm
LS8	54	600 x 2800 mm
LS10	57	600 x 2800 mm
LS12	66	600 x 2800 mm
LS16	46	600 x 2800 mm

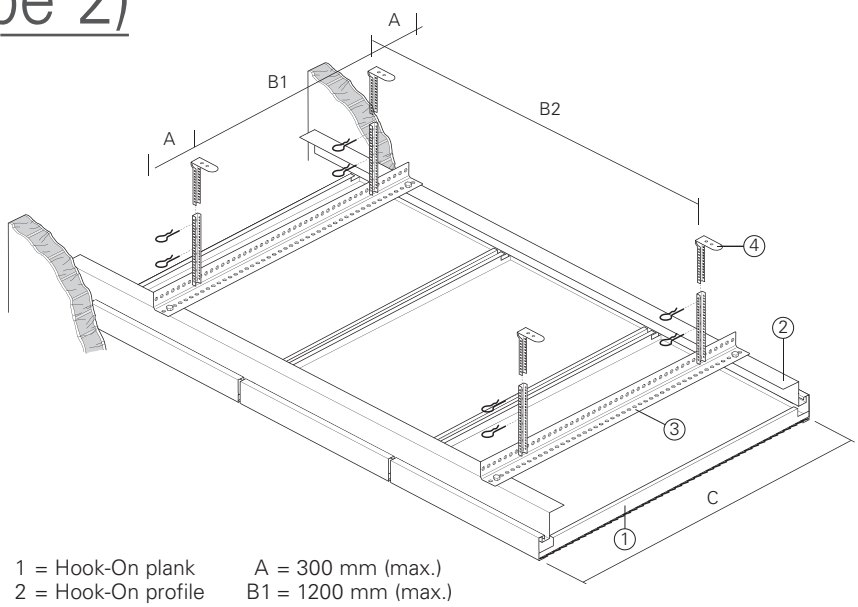
MATERIAL REQUIREMENT PER M²

		Fe
Components	**Unit**	**Version-II, max 600 x 2800 mm**
Stretch Metal Hook-On	pcs	0.59
Hook-On profile	lm	0.36
Hook-On profile splice	pcs	0.07
Primary angle profile	lm	0.83
Primary angle profile splice	pcs	0.17
Suspension	pcs	0.69

Hook-On A (Type 2)

PLANKS

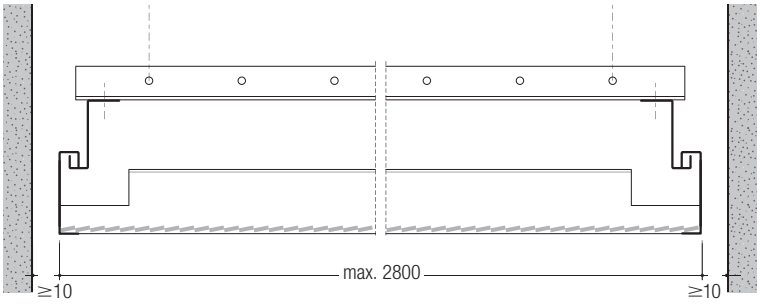
Stretch Metal planks designed to be installed on conventional hook-on profiles. Application and installation is similar to the Type 1 panels. The difference lies in the type of mesh which is much bigger and cannot be bended over the edges. The mesh sheets on the face of the panels are welded to the steel re-inforcement profiles on the short and long sides. Stretch Metal planks are ideal for solutions where either a high level of acoustic absorption is required or where visual and physical transparency of the ceiling is requested. The systems are also ideal for solutions where regular access into the plenum is required.



1 = Hook-On plank
2 = Hook-On profile
3 = Primary profile
4 = Suspension

A = 300 mm (max.)
B1 = 1200 mm (max.)
B2 = 1200 mm (max.)
C = 2800 mm (max.)

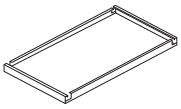
CONSTRUCTION DETAILS



BASE MATERIAL

Stretch Metal planks are available in steel. The Stretch Metal planks are strengthened with a welded support profile inside (Version-II).

Version-II: Stretch Metal with welded support profile



OVERVIEW AVAILABLE EXECUTIONS / MAXIMUM DIMENSIONS

Mesh Type	% Open	Version-II, with reinforcement
New York	48	680 x 2800 mm
Dubai	36	750 x 2800 mm
Moscow	55	728 x 2800 mm
Rotterdam	50	740 x 2800 mm

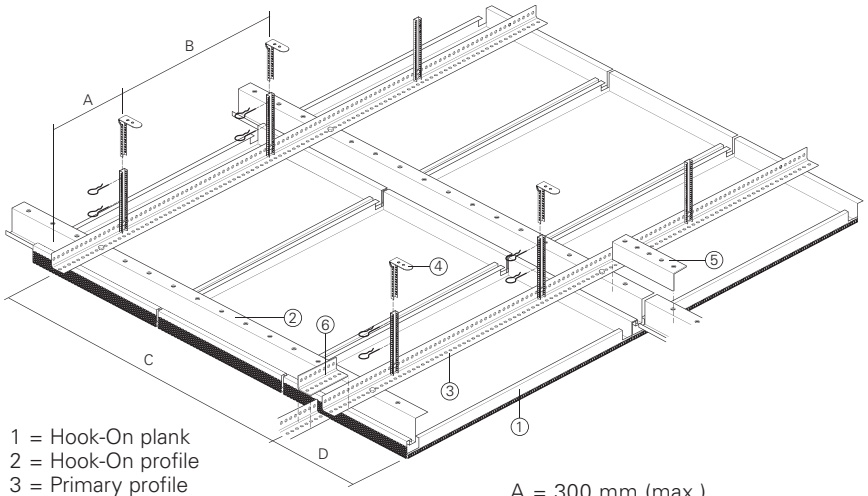
MATERIAL REQUIREMENT PER M²

		Fe
Components	**Unit**	**Version-II, max 750 x 2800 mm**
Stretch Metal Hook-On	pcs	0.48
Hook-On profile	lm	0.36
Hook-On profile splice	pcs	0.07
Primary angle profile	lm	0.83
Primary angle profile splice	pcs	0.17
Suspension	pcs	0.69

Hook-On B (Type 1)

PLANKS

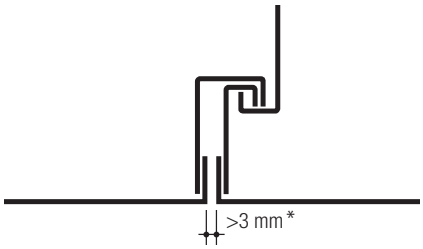
Stretch Metal planks designed to be installed on conventional hook-on profiles. This system is designed for applications in bigger areas creating a continuous smooth impression. All individual panels are easily demounted by lifting them from the hook-on profiles. The Type 1 panels are made from finer mesh and bended over the edges. The edges are re-inforced with spot welded angle profiles on the long and short sides.



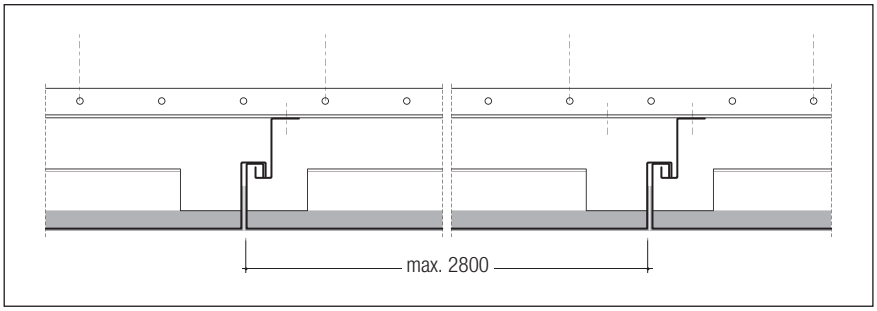
1 = Hook-On plank
2 = Hook-On profile
3 = Primary profile
4 = Suspension
5 = Hook-On profile splice
6 = Primary profile splice

A = 300 mm (max.)
B = 1200 mm (max.)
C = 1200 mm (max.)
D = 300 mm (max.)

CONSTRUCTION DETAILS



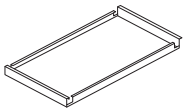
**Depends on mesh type and installation*



BASE MATERIAL

Stretch Metal planks are available in steel. The Stretch Metal planks are strengthened with a welded support profile inside (Version-II)

Version-II: Stretch Metal with welded support profile



OVERVIEW AVAILABLE EXECUTIONS / MAXIMUM DIMENSIONS

Mesh Type	% Open	Version-II, with reinforcement
LS6	40	600 x 2800 mm
LD6	40	600 x 2800 mm
LS8	54	600 x 2800 mm

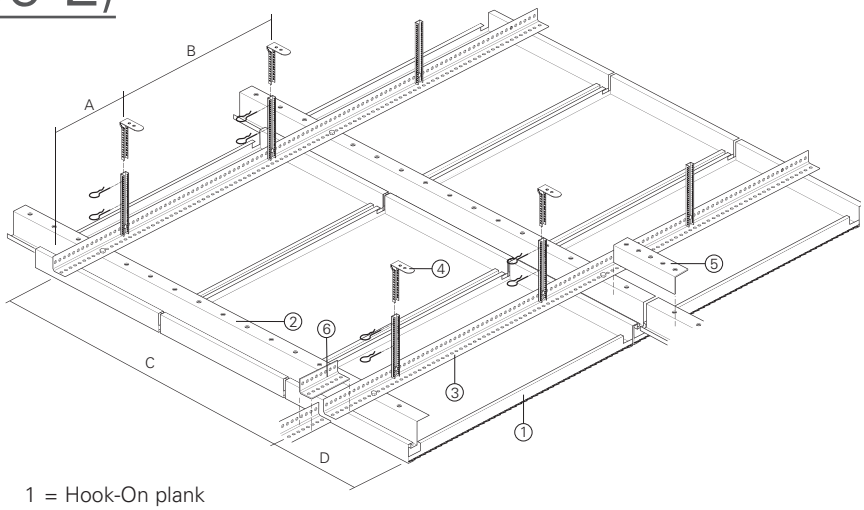
MATERIAL REQUIREMENT PER M²

		Fe
Components	**Unit**	**Version-II, max 600 x 2800 mm**
Stretch Metal Hook-On	pcs	0.59
Hook-on profile	lm	0.36
Hook-on profile splice	pcs	0.07
Primary angle profile	lm	0.93
Primary angle profile splice	pcs	0.17
Suspension	pcs	0.69

Hook-On B (Type 2)

PLANKS

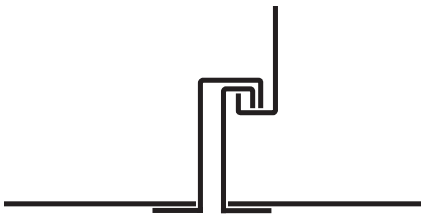
Stretch Metal planks designed to be installed on conventional hook-on profiles. Application and installation is similar to the Type 1 panels. The difference lies in the type of mesh which is much bigger and cannot be bended over the edges. The mesh sheets on the face of the panels are welded to the steel re-inforcement profiles on the short and long sides. Stretch Metal planks are ideal for solutions where either a high level of acoustic absorption is required or where visual and physical transparency of the ceiling is requested. The systems are also ideal for solutions where regular access into the plenum is required.

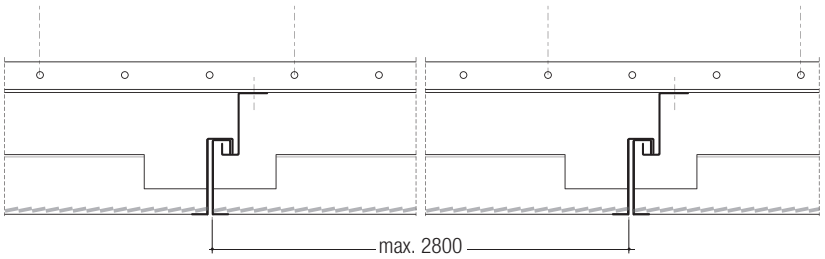


1 = Hook-On plank
2 = Hook-On profile
3 = Primary profile
4 = Suspension
5 = Hook-On profile splice
6 = Primary profile splice

A = 300 mm (max.)
B = 1200 mm (max.)
C = 1200 mm (max.)
D = 300 mm (max.)

CONSTRUCTION DETAILS

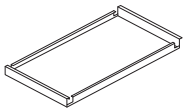




BASE MATERIAL

Stretch Metal planks are available in steel. The Stretch Metal planks are strengthened with a welded support profile inside (Version-II).

Version-II: Stretch Metal with welded support profile



OVERVIEW AVAILABLE EXECUTIONS / MAXIMUM DIMENSIONS

Mesh Type	% Open	Version-II, with reinforcement
New York	48	680 x 2800 mm
Dubai	36	750 x 2800 mm
Moscow	55	728 x 2800 mm
Rotterdam	50	740 x 2800 mm

MATERIAL REQUIREMENT PER M²

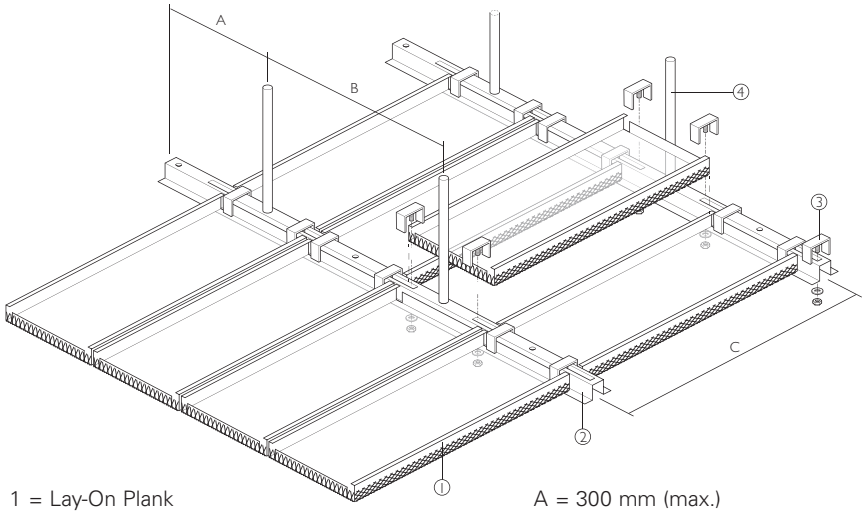
		Fe
Components	**Unit**	**Version-II, max 750 x 2800 mm**
Stretch Metal Hook-On	pcs	0.48
Hook-on profile	lm	0.36
Hook-on profile splice	pcs	0.07
Primary angle profile	lm	0.83
Primary angle profile splice	pcs	0.17
Suspension	pcs	0.69

Sports hall

PLANKS

Stretch Metal planks designed as Lay-On panels supported by an omega-profile. The Sports hall system combines visual and technical quality into a specific design. The system is impact resistant for all types of balls normally used in indoor sports activities. The Stretch Metal Sports hall system is extensively tested on impact resistance and conforms to the requirements of DIN 18032 and impact resistance class 1A according EN 13964.

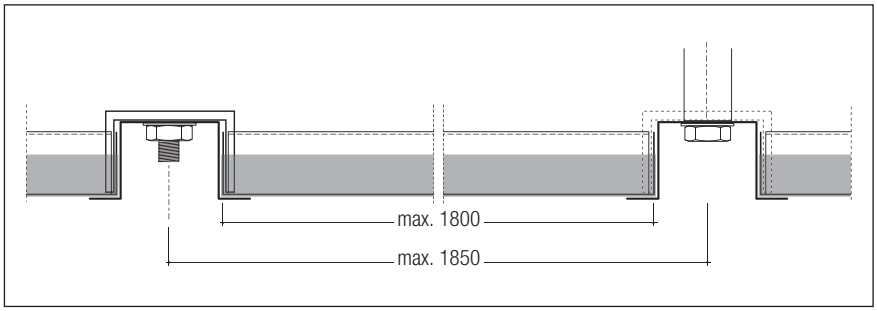
The fully accessible Stretch Metal Sports hall system was specially designed for use in sports halls and to withstand the impacts of balls. Panels are locked in place through the locking bracket fitting over the panel ends and the omega profile. The slots in the profile allow the locking brackets to be removed to demount the panels.



1 = Lay-On Plank
2 = Omega profile
3 = Locking bracket
4 = Profix™ suspension

A = 300 mm (max.)
B = 1200 mm (max.)
C = 1850 mm (max.)

CONSTRUCTION DETAILS



BASE MATERIAL

Stretch Metal planks are available in steel*). The Stretch Metal planks are strengthened with a welded support profile inside (Version-II)

Version-II: Stretch Metal with welded support profile

OVERVIEW AVAILABLE EXECUTIONS / MAXIMUM DIMENSIONS

Mesh Type	% Open	Version-II, with reinforcement: D5/D5S
LD28x14-2.5x1.5	34	300 x 1800 mm

MATERIAL REQUIREMENT PER M²

		Fe*
Components	**Unit**	**Version-II, max 300 x 1800 mm**
Stretch Metal Lay-On	pcs	1.85
Omega profile	lm	0.55
Omega profile splice	pcs	0.11
Locking brackets	pcs	3.70
Suspension	pcs	0.46

** optionally the system is also available in aluminium to be used in swimmingpool applications*

Hook-On Safety Loop Interior/Sports hall

PLANKS

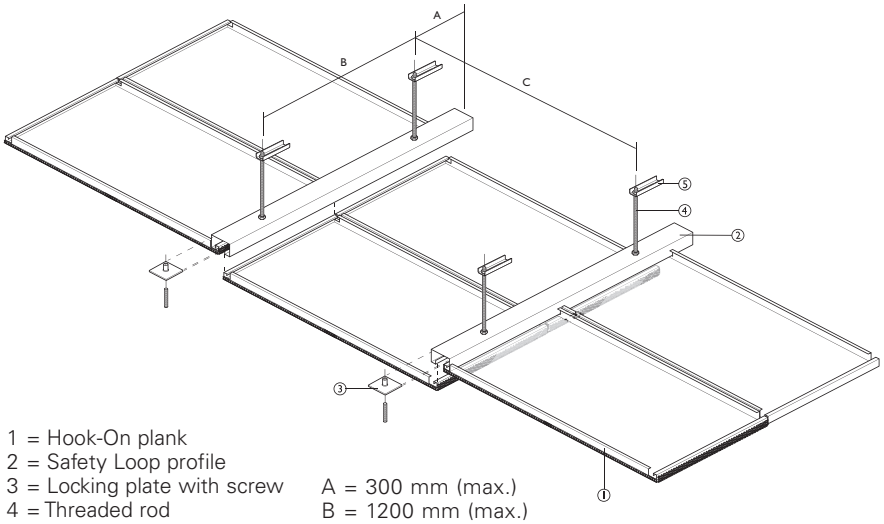
The Stretch Metal Hook-On Safety Loop system is designed for bigger surfaces without concessions to accessibility. In addition, the 15 mm joints on the sides of the panels create rhythm in the ceiling.

The locking plates prevent unauthorised removal of the panels and at the same time lock the panels in place to provide impact resistance.

DEMOUNTABILITY AND ACCESS

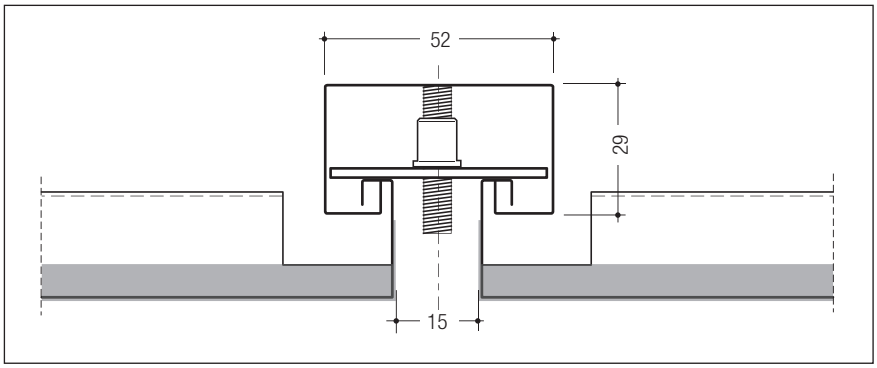
Each panel is individually demountable by unscrewing the locking plate with an hexagonal Allen key through the 15mm joint between the panels. Once the panels are free they can be easily lifted from the hook-on profile.

RB35 available as Sports Hall Ceiling in dimension 900 x 1940 mm . Impact resistance Class 1A according EN 13964.



1 = Hook-On plank
2 = Safety Loop profile
3 = Locking plate with screw
4 = Threaded rod
5 = Suspension element

A = 300 mm (max.)
B = 1200 mm (max.)
C = Panel width or length

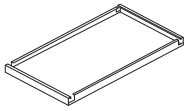


CONSTRUCTION DETAILS

BASE MATERIAL

Stretch Metal planks are available in steel. The Stretch Metal planks are strengthened with a welded support profile inside (Version-II).

Version-II: Stretch Metal with welded support profile



OVERVIEW AVAILABLE EXECUTIONS

Mesh Type		% Open	Version-II, with reinforcement
LS6	Type 1 (see page 9/11)	40	600 x 2800 mm
LD6		40	600 x 2800 mm
LS8		54	600 x 2800 mm
LS10		57	600 x 2800 mm
LS12		66	600 x 2800 mm
LS16		46	600 x 2800 mm
New York	Type 2 (see page 10/12)	48	680 x 2800 mm
Dubai		36	750 x 2800 mm
Moscow		55	728 x 2800 mm
Rotterdam		50	740 x 2800 mm
RB35			900 x 1940 mm Sports Hall

MATERIAL REQUIREMENT PER M²

		Fe
Components	**Unit**	**Version-II, max 600 x 2800 mm**
Stretch Metal Hook-On	pcs	0.59
Locking plate	pcs	0.59
Safety Loop profile	lm	0.36
Safety Loop profile splice	pcs	0.07
Suspension	pcs	0.69

Hook-On Safety Loop Exterior

PLANKS

The Stretch Metal Hook-On Safety Loop system is designed for bigger surfaces without concessions to accessibility. The system executed in aluminium and with exterior grade powder coating is suitable for use in exterior applications. The locking plates prevent unauthorised removal of the panels and at the same time lock the panels in place to provide wind load resistance.

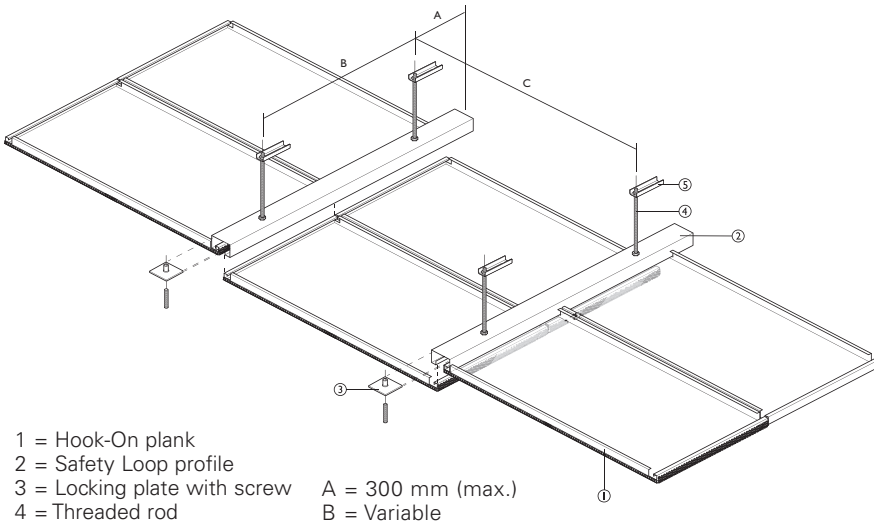
DEMOUNTABILITY AND ACCESS

Each panel is individually demountable by unscrewing the locking plate with an hexagonal Allen key through the 15 mm joint between the panels. Once the panels are free they can be easily lifted from the hook-on profile.

WIND LOADS AND ENVIRONMENT*

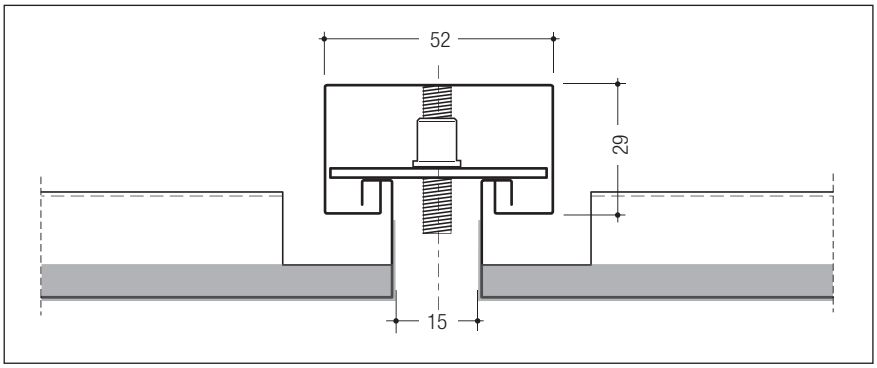
The wind load on an exterior ceiling depends on factors like:
- location of the building
- surrounding environment
- height
- situation on the building
- type of ceiling.

In addition, there may be other factors that influence the performance like (industrial) pollution, salinity (coastal areas) or humidity (nearby watery environments).

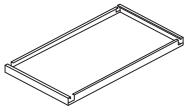


1 = Hook-On plank
2 = Safety Loop profile
3 = Locking plate with screw
4 = Threaded rod
5 = Suspension element

A = 300 mm (max.)
B = Variable
C = Panel width or length



Version-II: Stretch Metal with welded support profile



OVERVIEW AVAILABLE EXECUTIONS

Mesh Type		% Open	Version-II, with reinforcement
LS6	Type 1 (see page 9/11)	40	400 x 2000 mm
LD6		40	400 x 2000 mm
LS8		54	400 x 2000 mm
LS10		57	600 x 2400 mm
LS12		66	600 x 2400 mm
LS16		46	600 x 2400 mm
New York	Type 2 (see page 10/12)	48	680 x 2800 mm
Dubai		36	750 x 2800 mm
Moscow		55	728 x 2800 mm
Rotterdam		50	740 x 2800 mm

MATERIAL REQUIREMENT PER M²

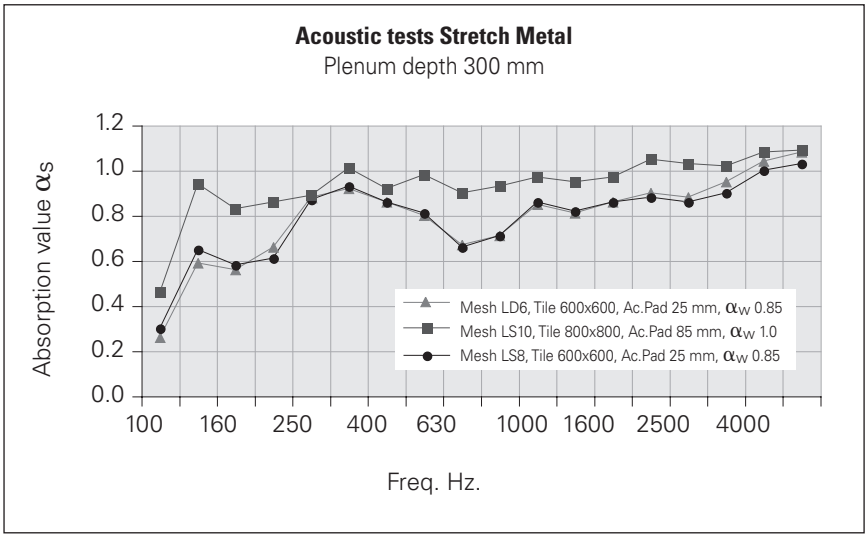
		Al
Components	**Unit**	**Version-II, max 600 x 2800 mm**
Stretch Metal Hook-On	pcs	0.69
Locking plate	pcs	0.69
Safety Loop profile	lm	0.42
Safety Loop profile splice	pcs	0.08
Suspension	pcs	variable, depends on wind load

**Please contact your local Hunter Douglas sales office for advice on wind loads and exterior ceiling applications.*

Acoustics

ACOUSTIC PERFORMANCE

Using acoustic pads on top of the Stretch Metal panels offers exceptional acoustic performance. The thickness of the pads can be chosen depending on the required acoustical values.
The acoustic absorption value can reach α_W 1 with an acoustical pad of 85 mm.



Material

TRANSPARENCY

The tiles can be made from various mesh types. This results in different optical effects if the natural or artificial light comes from the plenum. It is important to realise that stretch metal meshes do have a direction. Depending on viewing direction the mesh appears more or less open. This influences light coming through the material but also the visiblity of installations in the plenum. The physical transparency can also be used for smoke extraction and sprinkler operation in case of fire.

FIRE BEHAVIOUR

HunterDouglas® metal ceilings are classified incombustible, and will therefore not contribute to fires. When ceilings need to protect the structural integrity of a building, HunterDouglas® ceilings offer a wide range of practical solutions with regards to fire resistance and fire stability. Further information is available on request.

COATING

Stretch Metal tiles are all powder coated materials. Durable powder coatings for exterior use are optionally available.

COLOUR RANGE

The standard colour range consists of RAL and NCS colours, including chrome. Other special colours are available on request.

QUALITY

Our focus on quality ensures the highest standard of production process, material, machinery and finished product. The superior durability of Hunter Douglas products translates into lower costs during the life cycle of the product due to longer life expectancy and lower maintenance costs.

INSTALLATION

It is necessary for all versions that qualitative suspension systems are used. The systems must be stable, aligned and leveled so that they comply with the requirements of the panels. For information on installation, refer to the applicable assembly instruction leaflets.

HunterDouglas
Architectural

HUNTER DOUGLAS ARCHITECTURAL

In the last 60 years, we have been fortunate enough to help turn countless innovative ideas into products for innovative buildings. With major operation centres in Europe, North America, Latin America, Asia and Australia we contribute to thousands of high-profile projects including shopping centres, airports, government offices, hospitals, universities and offices.

▲ *SUN LOUVRES*

▲ *PLAFONDS*

▲ *PLAFONDS*

▲ *FAÇADES*

ARCHITECTURAL SERVICES

We support our business partners with a wide range of technical consulting and support services for architects, developers, and installers. We assist architects and developers with recommendations regarding materials, shapes and dimensions, colours and finishes.

We also help creating design proposals, visualisations, and installation drawings. Our services to installers range from providing detailed installation drawings and instructions to training installers and advising on the building site.

Designed to work for you

All aluminium products are 100% recyclable at the end of their lifecycle.

All steel products are 100% recyclable at the end of their lifecycle.

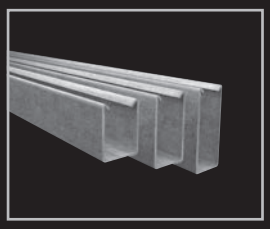
Hunter Douglas products and solutions are designed to improve indoor environmental quality and conserve energy, supporting built environments that are comfortable, healthy, productive, and sustainable.

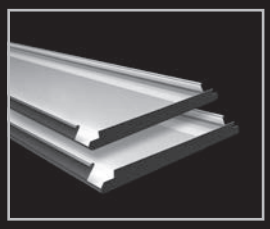
Dutch Green Building Council PARTICIPANT

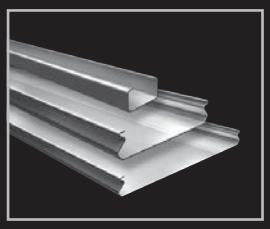
Learn More

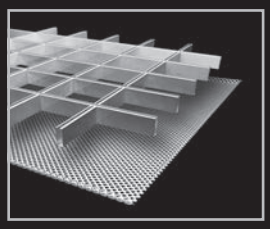
- Contact our Sales office
- www.hunterdouglasarchitectural.eu

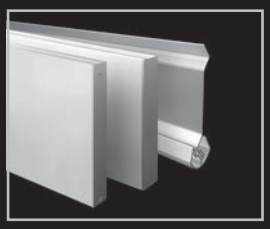
HunterDouglas
Architectural

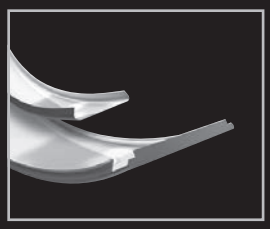

HeartFelt® Linear

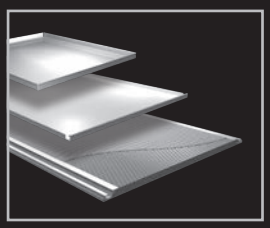

Wide Panel

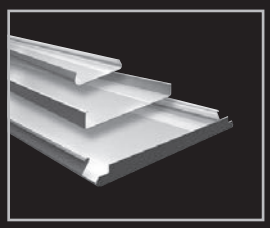

Linear


Cell | Stretch metal


Baffles


Curved


Tiles | Planks | XL*nt*


Exterior

Belgium
Bulgaria
Croatia / Slovenia
Czech Republic
Denmark
France
Germany
Greece
Hungary
Italy
The Netherlands
Norway
Poland
Portugal
Romania
Russia
Serbia
Slovakia
Spain
Sweden
Switzerland
Turkey
United Kingdom
Africa
Middle East

Asia
Australia
Latin America
North America

Hunter Douglas Architectural
Piekstraat 2
P.O. Box 5072 - 3008 AB Rotterdam
The Netherlands
Tel. +31 (0)10 - 486 99 11
Fax +31 (0)10 - 484 79 10
www.hunterdouglasarchitectural.eu