



LARGE MESHES CONCEPT

SUSTAINABLE

RECYCLABLE

SAFE

SHADE

CREATIVE

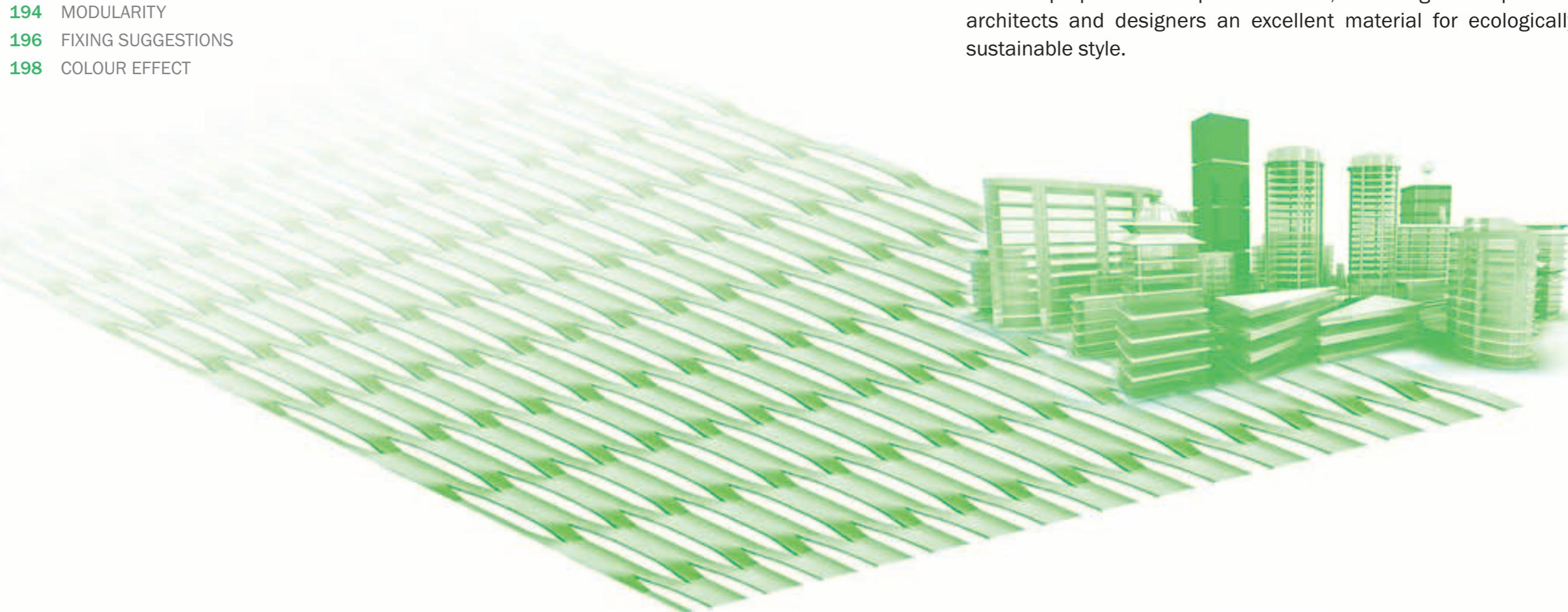
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PROTECTION SUSTAINABILITY RECYCLING AESTHETIC QUALITY

More and more in modern architecture, environmental impact and safety-related aspects are rightfully being considered as essential. The choice of facing materials now involves combining indispensable aesthetic needs with requisites of eco-compatibility and energy efficiency.

With its proposals of expanded mesh, the Longhi Group offers architects and designers an excellent material for ecologically sustainable style.

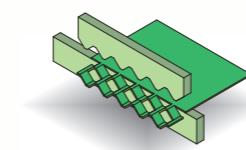


*ULTRA LIMITES



Green energy

70% of the energy required for production comes from photovoltaic systems.



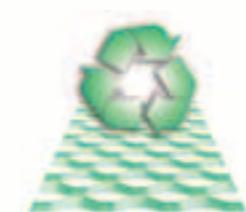
Pollution-free process

"Expanding" is a cold-pressing process that does not require the use of pollutants.



Zero-scrap processing

Expanded metal is produced without any work scrap with the optimized use of raw materials.



Recyclable

At the end of its long working life, expanded metal is subjected to differentiated waste collection for 100% recycling.



100% Made in Italy

Ecologically-sustainable material

Longhi Group expanded metal keeps growing greener and greener! Constant commitment to limiting environmental impact in all processes through the responsible use of resources, differentiated waste collection and recycling, and keeping energy consumption low permits production in equilibrium with the environment.

Corporate responsibility

All production takes place in Italy; personnel are protected by law. Workplaces are monitored, safe, and scrupulously comply with all the regulations in force.



Wellness through natural light

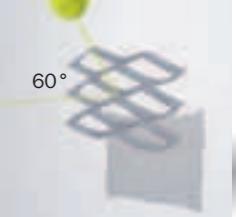
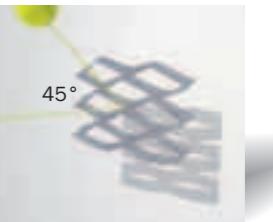
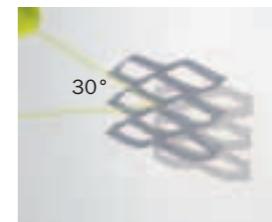
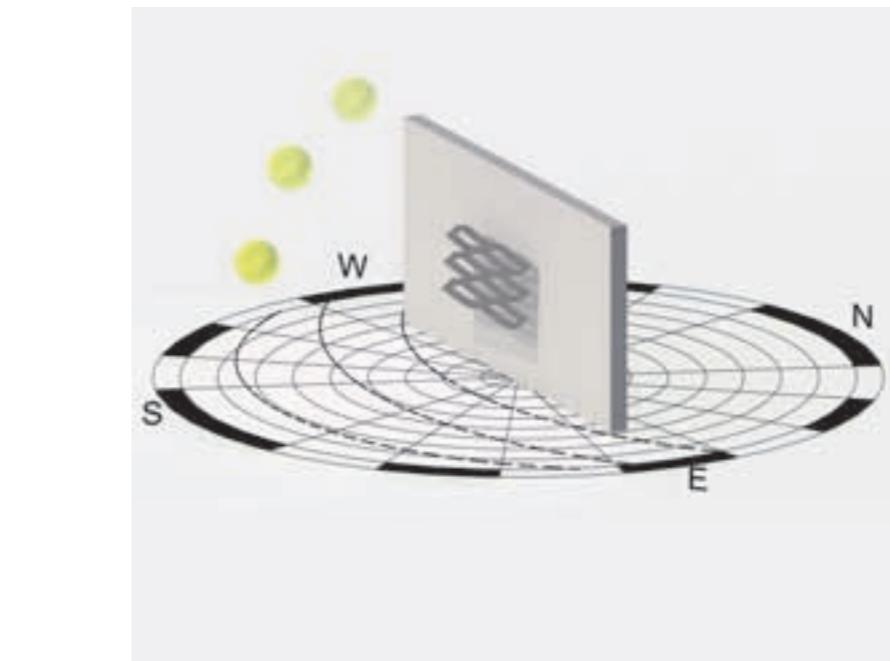
With the comfort of natural light, human productivity increases. In schools, offices, and workplaces in general. Daylight brings another important benefit: reduced need for artificial illumination. Brightness can be adjusted using sliding awnings.

Natural environment and landscape

The transparency of expanded metal provides a view of the landscape and a more comfortable feeling. The natural environment is often sacrificed in the city, and this is the reason behind "vertical green" solutions and the way expanded mesh creates a metal trellis for climbing plants, for example.



(thanks to the kindly granting of the "WALLUP" system)



The study of light through expanded mesh
Sunlight depends on geographical position, the way the façade faces, the season, and the time of day.

Each type of mesh provides its own distinctive shading at every angle.

THE ADVANTAGES OF SOLAR CONTROL

Wellbeing and efficiency

Expanded mesh is a unique material that is both transparent and provides shading at the same time thanks to its particular three-dimensional conformation.

This characteristic permits the creation of innovative screening for the regulation of daylight: the shade provided is greatest when the sun is at its highest, while the frontal opening of the mesh maximizes the amount of daylight and leaves the view open to the world outside. This makes rooms brighter and cooler at the same time.

Designing sustainable, energy-efficient buildings.

By better control of the inflow of the energy through the facing provided for the façade, for example.





The safety objective

When the right techniques are used for fastening to the substructure, expanded metal panels provide guaranteed safety in every type of use and applied. This suspended parapet gives the sensation of solid protection thanks to the sturdiness of the material.

These safe and practical solutions are ideal for:

- protecting people
- isolating dangers
- preventing risks



Load-bearing capacity in compliance with standards

Load-bearing capacities for walkable surfaces are certified to the Technical Construction Standard NTC2008. Adequate protection is also provided for the respective stairs.

Anti-slip grating

Grating guarantees excellent non-slip results documented by the certification tests specified by DIN 51130 Standard and are also anti panic function.



Aesthetic finish and durability

Long experience with architects and architecture has helped Longhi Group develop anodizing, paint treatment, and coating solutions with exceptionally high aesthetic quality and practicality. An infinite range of colours provides creative and decorative possibilities suited to the protection of the materials used against corrosion, such as aluminium or carbon steel.



THE DESIGN REQUISITES

Strength and durability

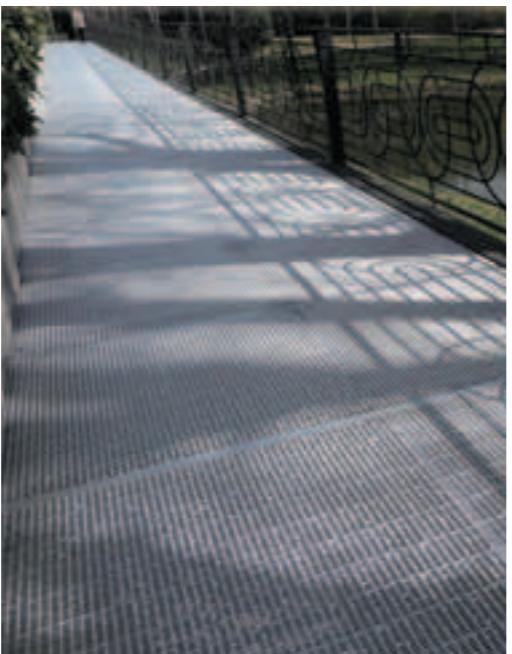
The expanded metal used in construction and architecture is sized to resist the strain typical of such structures, such as the work loads, wind, and snow loads, for example.

(With regard to the general safety criteria specified in the Building Code.)

The open shape of expanded metal also makes it suited to applications that require ventilation and the free passage of air, such as in parking facilities, utility rooms or transit areas.



The wellbeing of human beings and especially their safety is the primary objective of architectural design that complies with all the regulations in the sector.





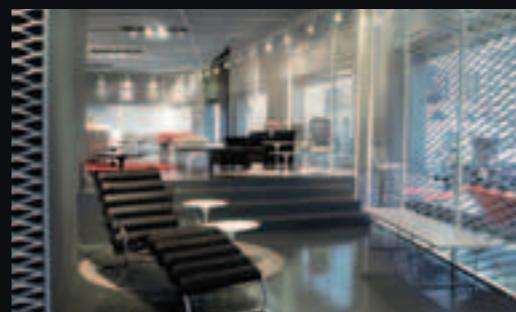
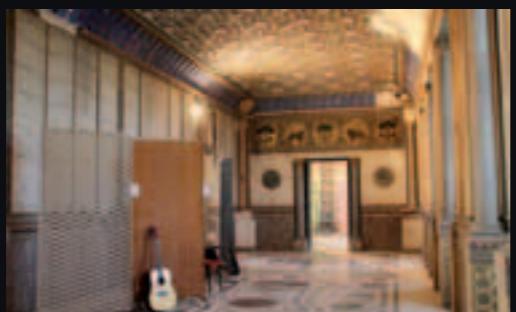
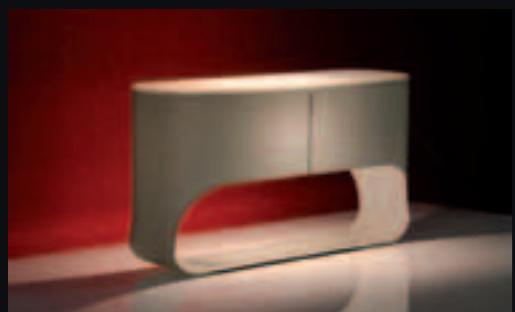
COMMUNICATING WITH MESH

The language of spaces and surfaces, volumes and proportions, colours and transparencies.

“MESH EXPERIENCE”

The versatility of expanded mesh is illustrated in the impressive applications around the world on the pages below.

SET “METAL SHOW”
ELLE DECOR ITALIA MAGAZINE – OCTOBER 2013
Styling: Ravaiolisilenzistudio
Photo: Gionata Xerra, courtesy of Elle Decor Italia
Structure in expanded metal:
DELTASYSTEM INTERNATIONAL



DESIGN AESTHETICS COLOUR LIGHT TRANSPARENCY PERSPECTIVE IN MOVEMENT ARCHITECTURAL LIGHTING CREATIVITY



LOUVRE MUSEUM – ISLAMIC ART DEPARTMENT – PARIS (France)
Design: Studio Bellini, Rudy Ricciotti
Expanded metal cladding: METALLTECH
Photo: © Albert Greenwood, courtesy of the Louvre

© Raffaele Cipolletta, courtesy of Mario Bellini Architects



This fluctuating, undulating semi-transparent surface was developed to permit the complementary coexistence of distinctive forms of Islamic art with the Museum's classical 18th century ambience.



The elements vaunt certified characteristics of materials and surface finishes, and mechanical resistance to the wind and snow loads.

© Metalltech archives



© Louvre Museum



Combination of metal + glass + metal for the creation of a sunscreen with calibrated protection that filters the daylight passing through.

NAI - NEDERLANDS
ARCHITECTUURINSTITUUT
ROTTERDAM (Holland)
Design: JO COENEN & Co
ARCHITECTEN
Expanded metal
cladding: METALLTECH
Photo: © NAI press image
galleries NAI building,
Carel van Hees



Façade in expanded metal with variable aperture mesh. Efficient sunscreen and graduated transparency that permits the adjustment of sunlight striking the glass walls.



HEYDAR ALIYEV INTERNATIONAL AIRPORT ENTRANCE - BAKU (Azerbaijan)
Design of architecture and structures: ARUP - Arch. FREAD DEACON
Constructive design of metal structures: WAAGNER BIRO (Stahlbau)
Expanded metal cladding: METALLTECH
Photo: © Arup



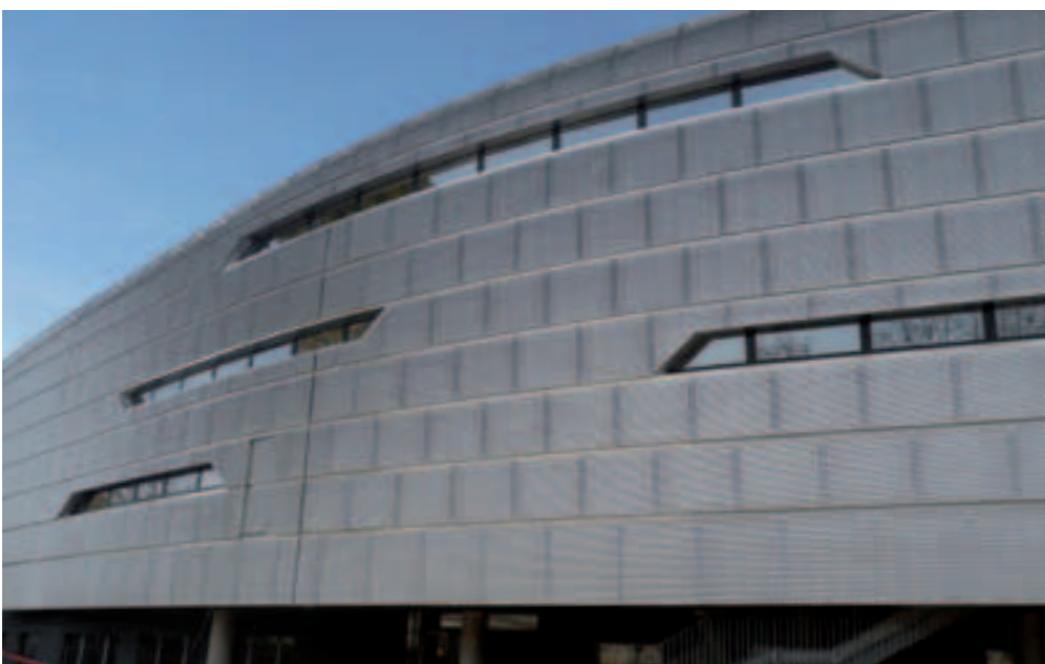
Combination of two meshes of different transparency that permits the reading of the Azerbaijan star. Inside the star, Coliseum mesh texture; outside the star, Academy mesh in pale gold tones.



AZUR ARENA - ANTIBES (France)
Design: FRADIN WECK ARCHITECTURE, AUER + WEBER + ASSOIIERTE
Photo: © Aldo Amoretti



NEW PAPA GIOVANNI XXIII HOSPITAL - BERGAMO (Italy)
Design: Studio Arch. TRAVERSI+TRAVERSI
Expanded metal cladding: METALLTECH
Photo: © Longhigroup archives



© Longhigroup archives



Multi-purpose “Palais des sports” designed for sports competitions, performances and events. At night, the windowed inserts appear as bands of light that light up the façade and symbolize dynamic sports activity.

Facing in expanded mesh ensures the passage of air required for multi-storey parking facilities and visually lightens the impact of the not inconsiderable volume with transparency.



INCUBATORE DELL'ARTE - MILAN (Italy)
Design: Stefano Boeri, Gianandrea Barreca, Giovanni La Varra
Expanded metal cladding: DELTASYSTEM INTERNATIONAL
Photo: © Longhigroup archives



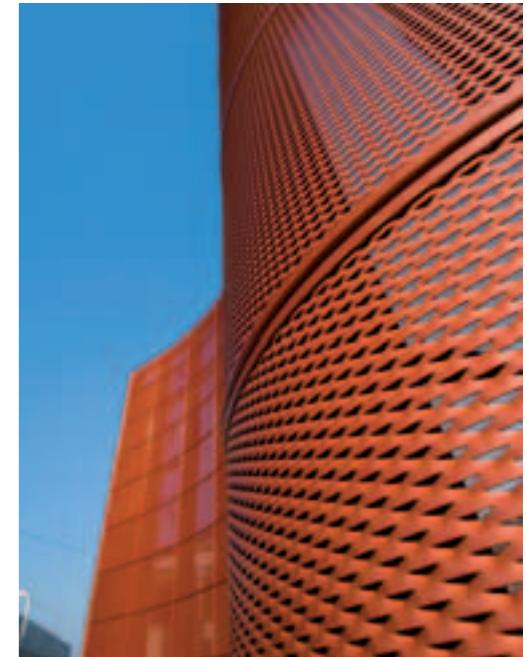
LAFER BRENDOLA COMPANY HEAD OFFICE - VICENZA (Italy)
Design: Arch. Roberto Persello
Photo: © Roberto Persello



Vertical enclosure of the building, horizontal false ceiling, lateral "fins" as sunscreen for the windows to achieve the dual objective of facing and providing shade.

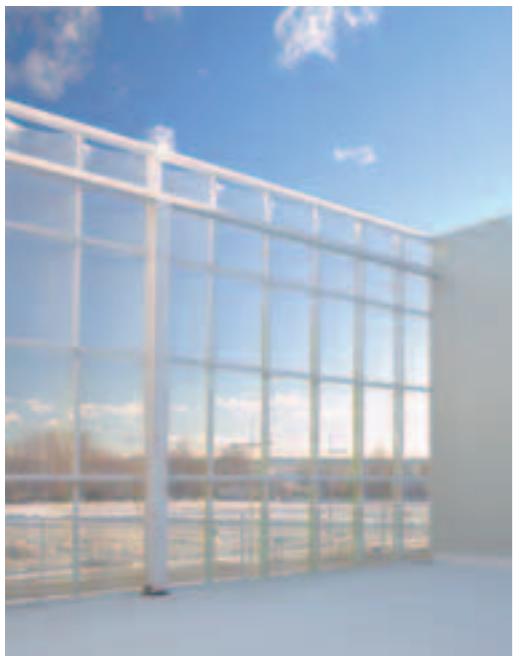


This fluid and dynamic stage setting was created using expanded metal panels in a global restructuring project that highlighted the office block and harmonized the entire façade.





GH GENHELIX BIOPHARMACEUTICAL FACILITIES – LEÓN (Spain)
Design: Esaú Acosta, Mauro Gil-Fournier, Miguel Jaenicke, estudiosic
Photo: © Esaú Acosta



Long, straight semi-circular columns in expanded metal provide the façade with transparency and movement. The letters and numbers are perceived during movement by passengers on the high speed train.



This private home with a façade in expanded metal is a very distinctive building in the neighborhood.



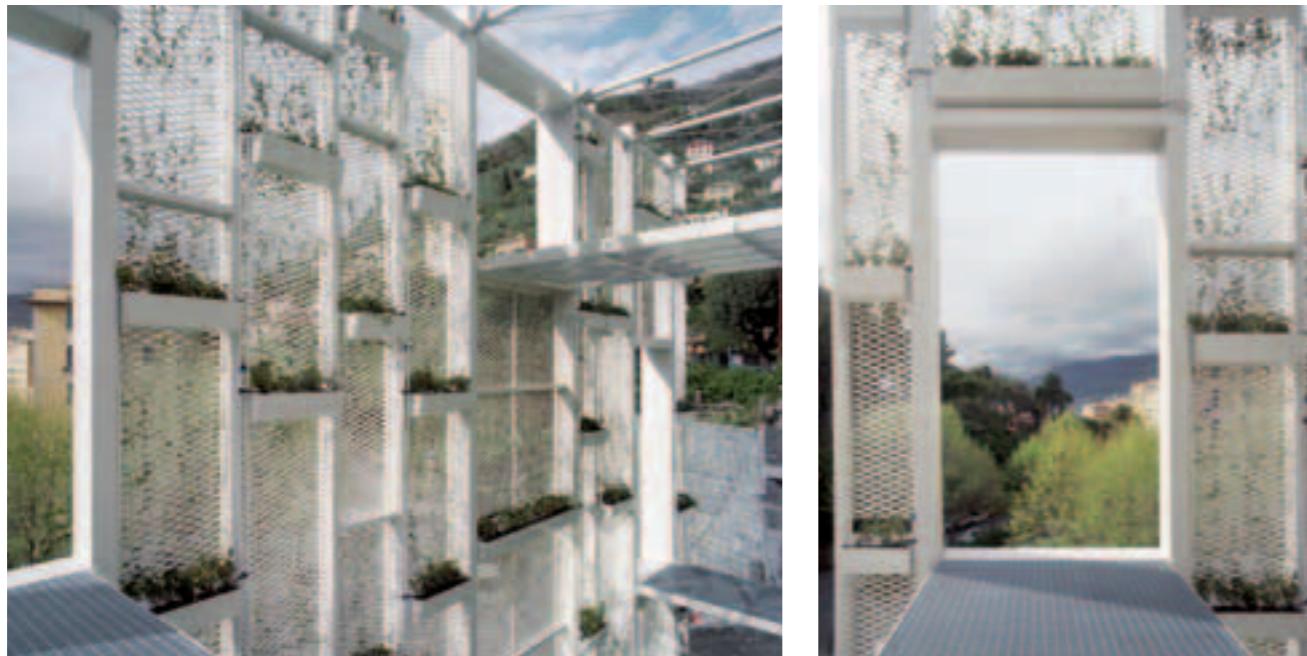
RESIDENZA RÖSSLIGUT - AARAU (SWITZERLAND)
Design: Schneider & Schneider, Aarau
Photo: © Erich Niederberger



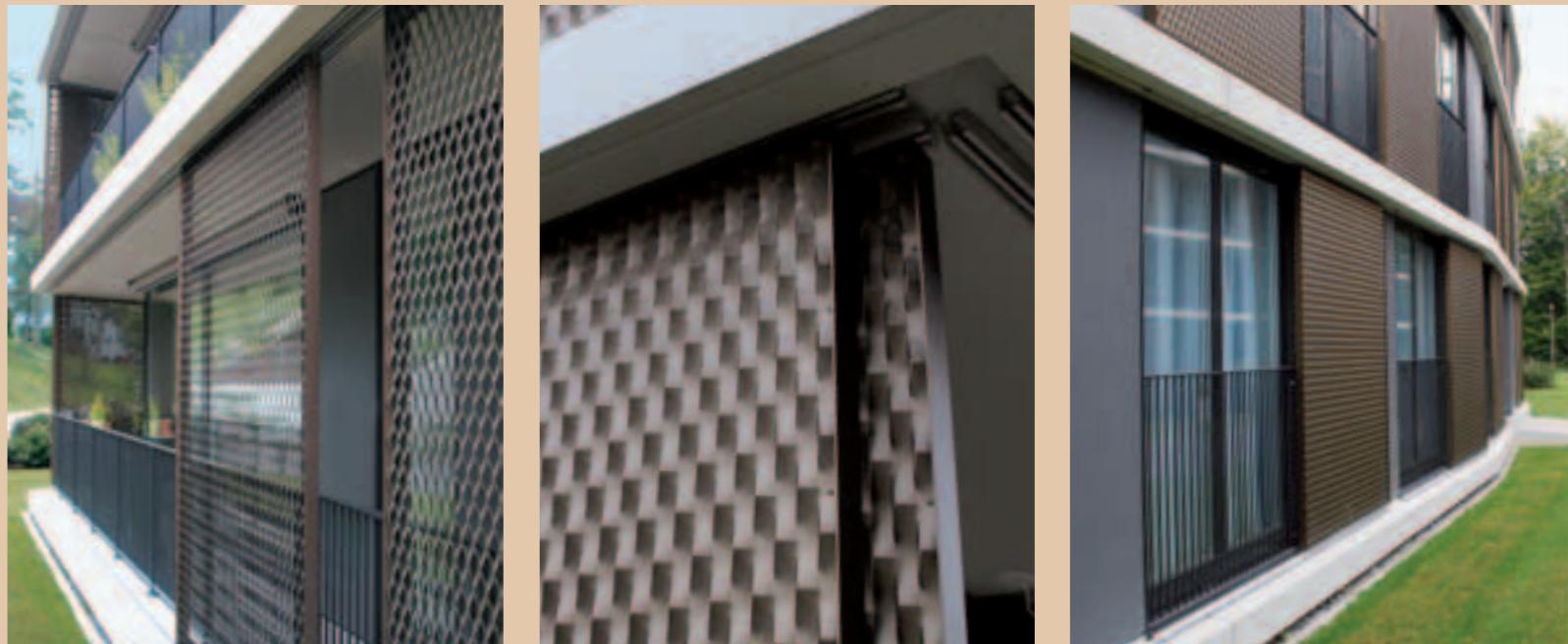
SEA ARTS HOTEL CAMOGLI - IMPERIA (Italy)
Design: Studio Gosplan
Expanded metal cladding: DELTASYSTEM INTERNATIONAL
Photo: © Anna Positano



WOHNÜBERBAUUNG ROTSEEPARK - LUZERNE (Switzerland)
Design: Rigert + Bisang Architekten
Photo: © André Huber



This “green façade” provided with flower boxes on different levels positioned in front of the entrance but at a slight distance from it gives greater personality to the main façade. The building’s glass walls reflect the “green façade” and multiply it through a mirror effect in a play of reflection and transparency.



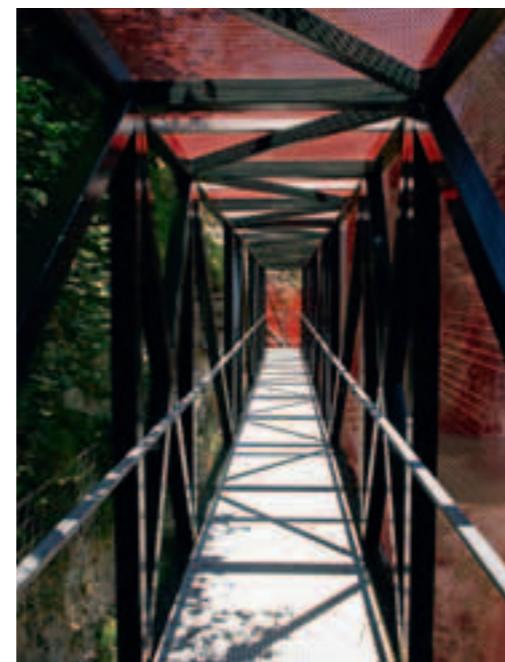
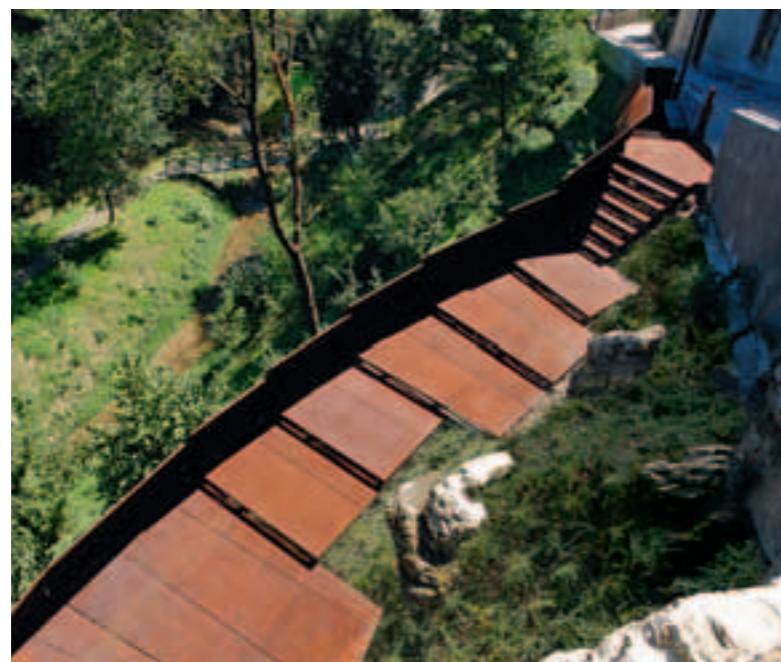
The sliding sunscreen installed as a part of a parapet can be positioned as required and guarantee visual comfort and optimum thermal performance.



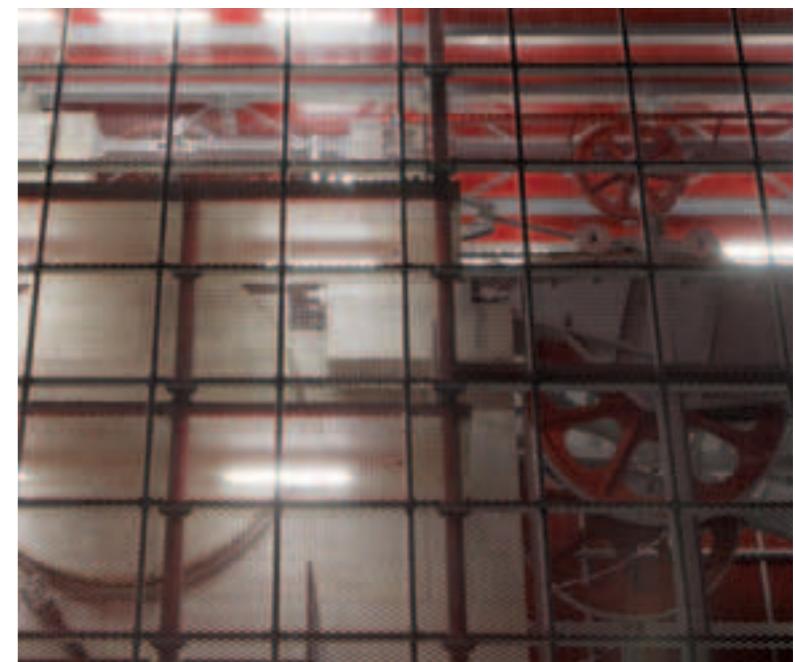
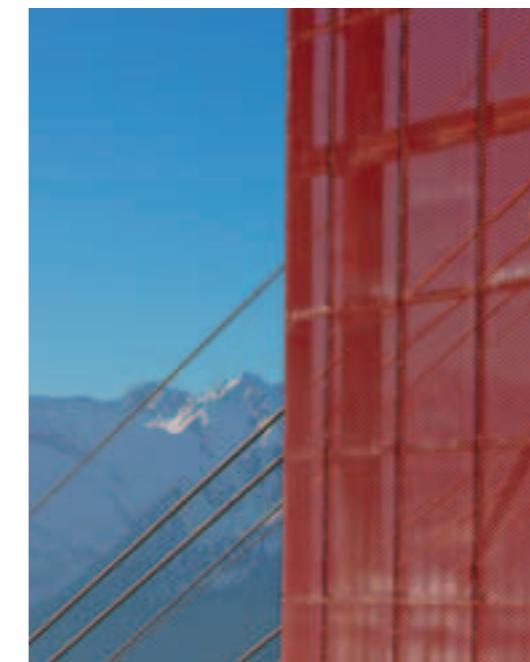
WALKWAY OVER STREAM IN PARCO DEL GIGANTE - BERGAMO (Italy)
Design: Arch. Gualtiero Oberti
Photo: © Arch. Gualtiero Oberti



IVIGNA MERANO 2000 CABLE CAR STATIONS - BOLZANO (Italy)
Design: Arch. Roland Baldi
Photo: © Meran 2000 – Frieder Bickle

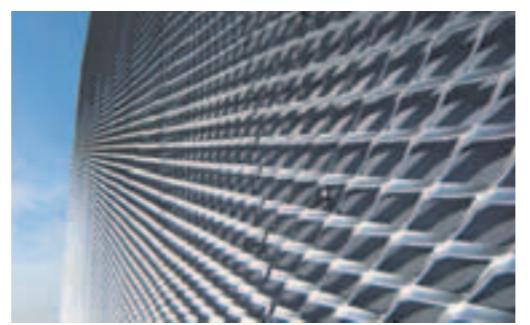


A technical and contemporary pathway perfectly immersed in the wild, the bridge over the Bragazzo Stream in Luzzana symbolizes the union of opposites in the achievement of safety.



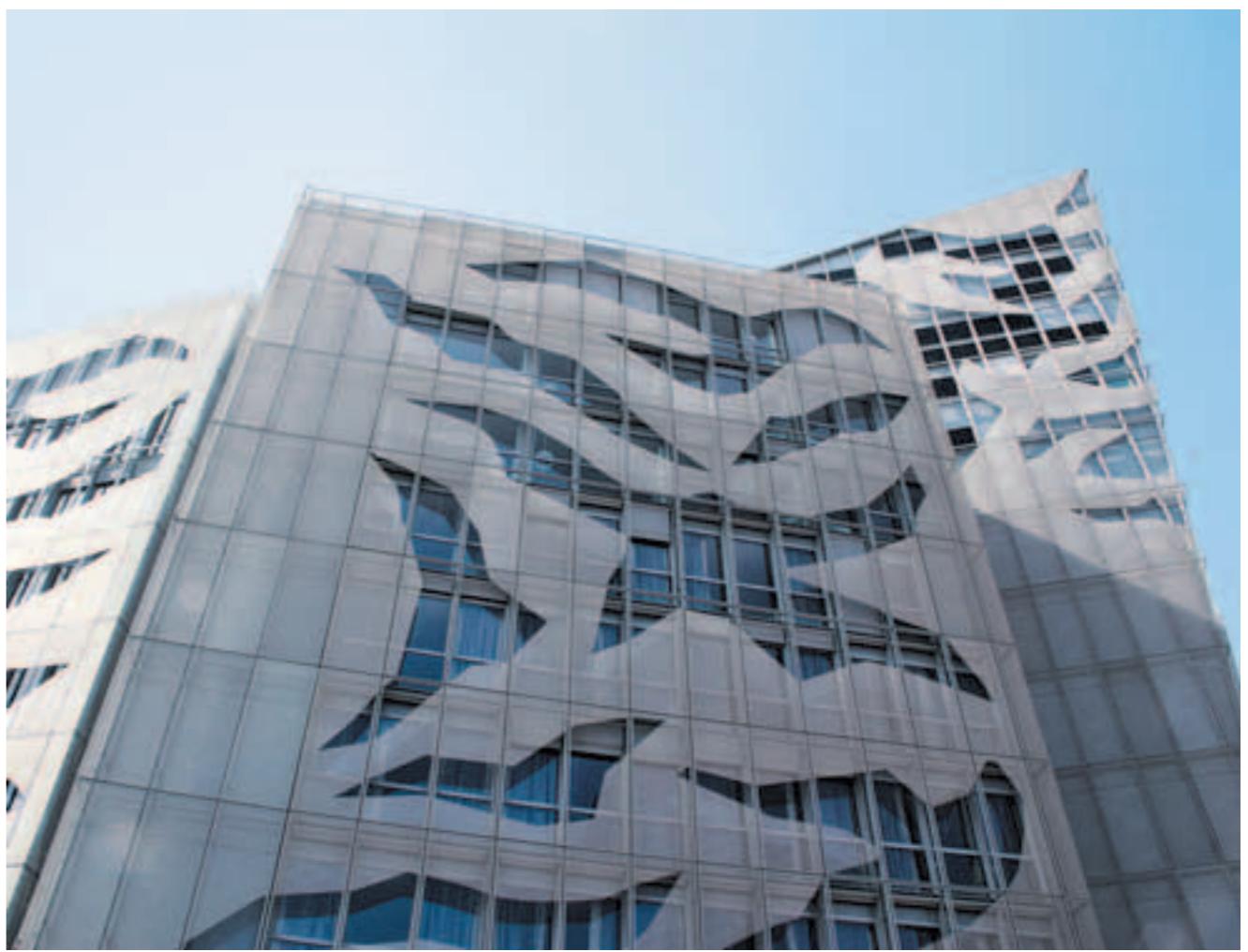
The station enclosure and its utility rooms faced in red lacquered expanded metal ensure ventilation in the rooms while providing protection against the weather and adequate illumination for the boarding platforms at the same time.

NUUK CENTER
GREENLAND
(Denmark)
Design:
Arch. MT Høgaard
Expanded metal
cladding: METALLTECH
Photo:
© Longhigroup archives



Its sloping lines and matte white façades recall the snow, icebergs, and the surface of the water in Nuuk Fjord.

VERONA FORUM
VERONA (Italy)
Design:
Arch. Mario Bellini
Expanded metal
cladding: METALLTECH
Photo:
© Studio Diecidodici



Inspiration drawn from the world of crystals with bird- and cloud-shaped “rips”.

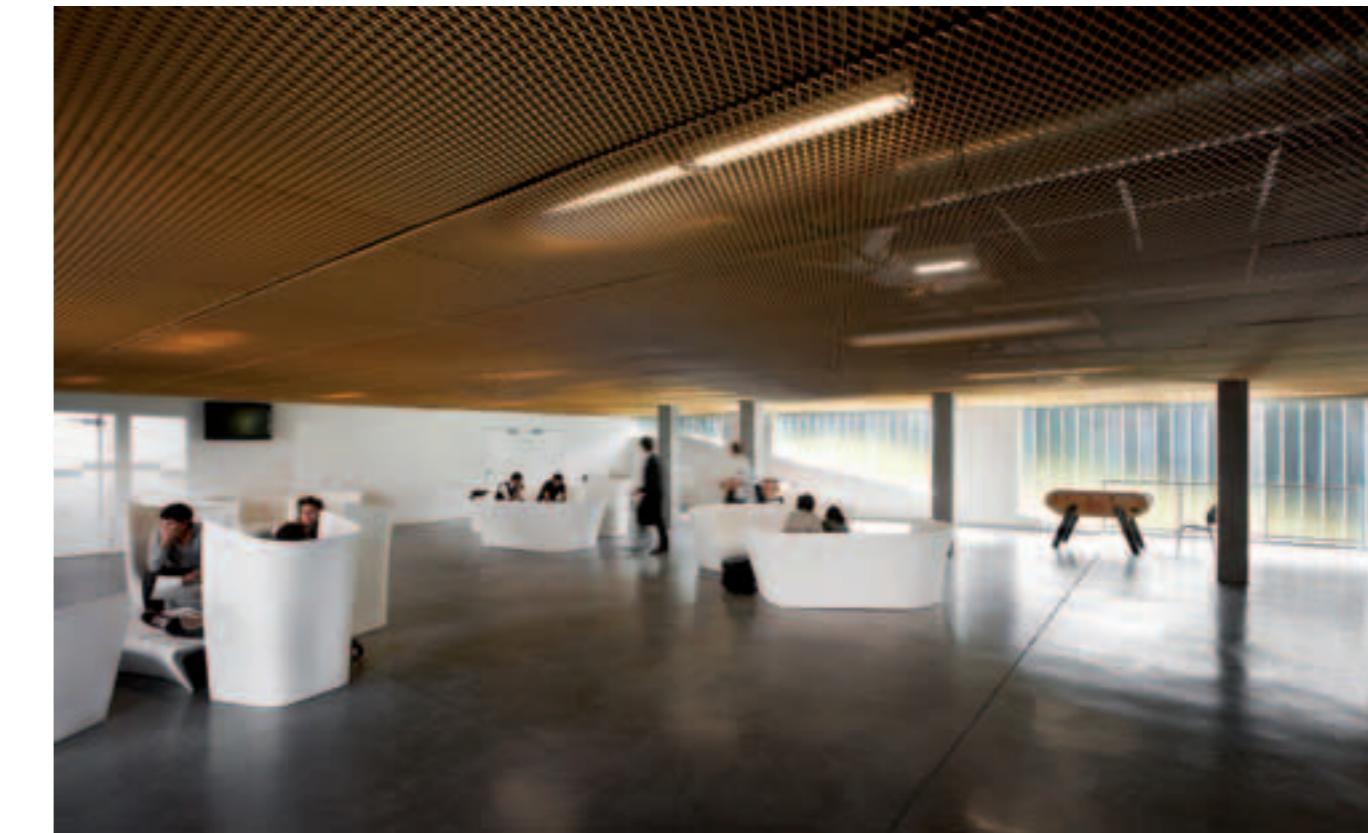
PERFORMING ARTS
CENTER
FOLKESTONE (England)
Design:
Alison Brooks Architects
Photo:
© Longhigroup archives



The shape of a fluted shell typical of the largest mollusk found along the Folkestone coast and a symbol of the sea's abundance was chosen as the main theme of the building's architecture. The exterior, lit up at night, may also be interpreted as a sculpted shield, as a drop-curtain or as a sequence of rippling waves.



EDHEC BUSINESS SCHOOL - LILLE (France)
Design: Zig-Zag Architecture
Photo: © Julien Lanoo



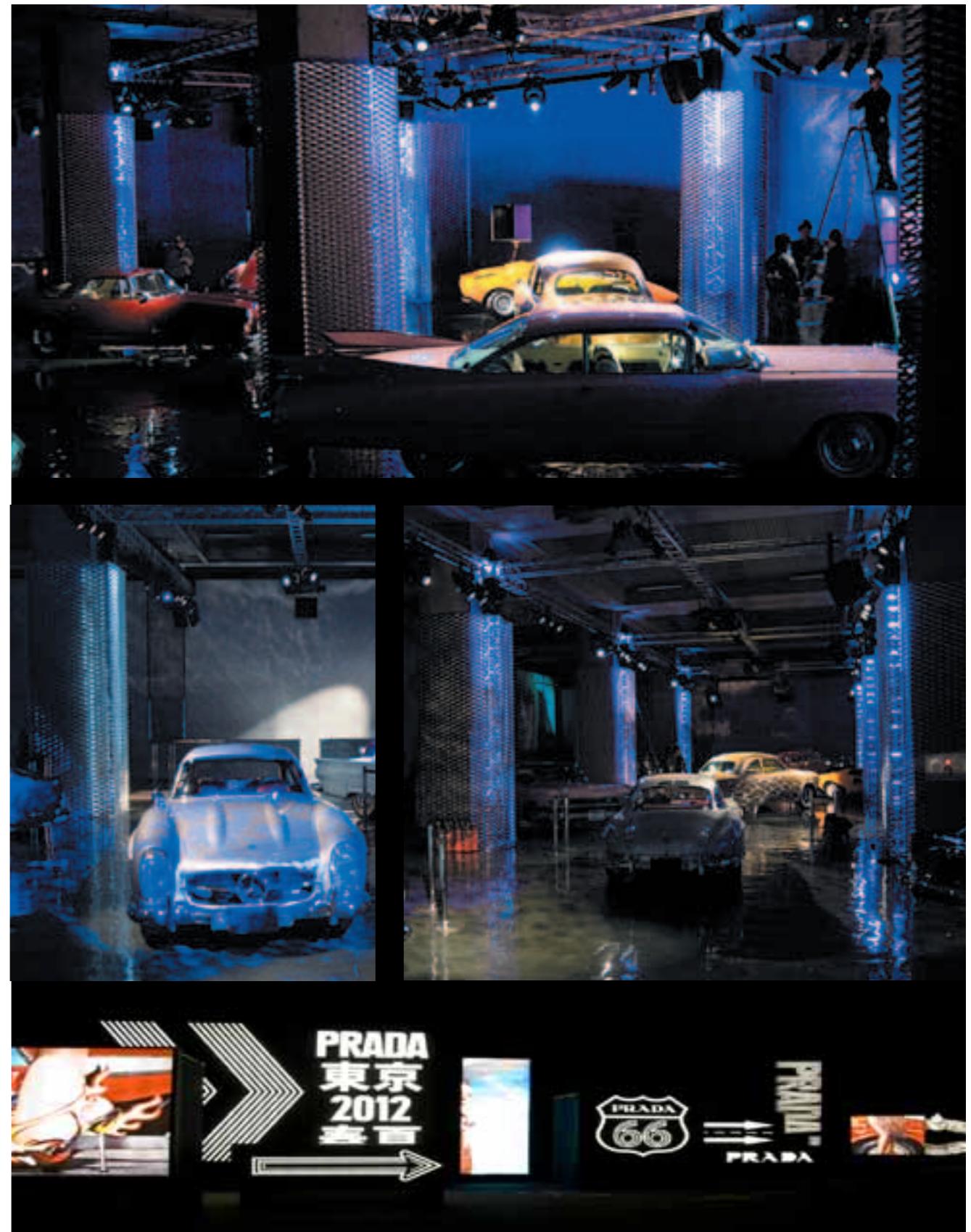
Façade as enclosure at the Croix-Roubaix University campus with large, gold-colored panels positioned at alternating inclination in order to provide movement and luminous reflection to the surface.

H&M STORE - HAMBURG (Germany)
Design: Patricia Urquiola
Expanded metal cladding: DELTASYSTEM INTERNATIONAL
Photo: © Longhigroup archives

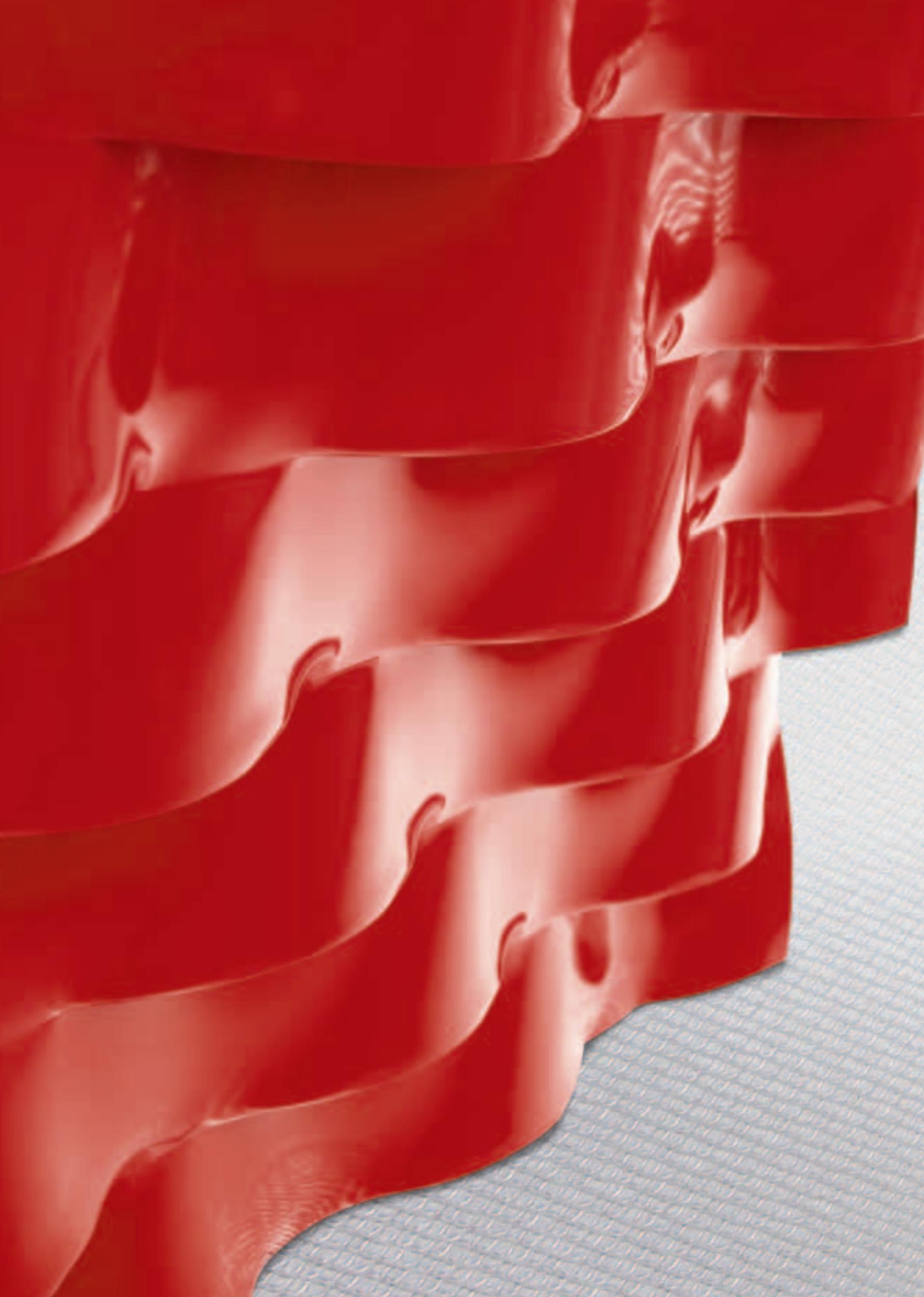


A complete expanded metal look for the restructuring of the H&M Store in Hamburg.
Display window in light white mesh with logo in clear sight, projecting false ceiling that
houses the lighting fixtures, shop-in-shop set-ups and backlit columns.

PRADA FASHION SHOW – TOKYO (Japan)
Design: Prada Engineering
Expanded metal cladding: DELTASYSTEM INTERNATIONAL
Photo: courtesy of Prada



Architectural lighting in expanded metal for a PRADA fashion event in Tokyo outfitted
with vintage cars.



ALL MESHES IN
REAL-SIZE

 **Fils**

line
pro tech

 **Italtim**

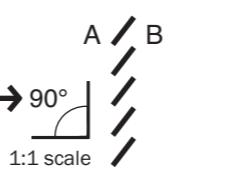
line
stiltech

SIDE A

**Fils 21****E 45 x 15 (13,4) - 5 x t**

| TYPE | SW | SW NOMINAL | SW ACTUAL | w | t

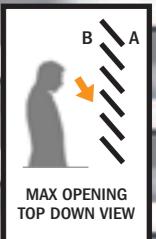
pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 45 x 15 (13,4) - 5 x 1,5	8,80	3,00	LW 1000 x SW 2000	7 (~) ♦	33,3 (~)
E 45 x 15 (13,4) - 5 x 2,0	11,60	4,00	LW 1250 x SW 2500		
E 45 x 15 (13,4) - 5 x 3,0	17,50	6,00	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 2000 Max		

◆ Framing profiles: see page 192

SIDE B

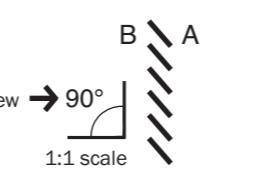


Fils 21

E 45 x 15 (13,4) - 5 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

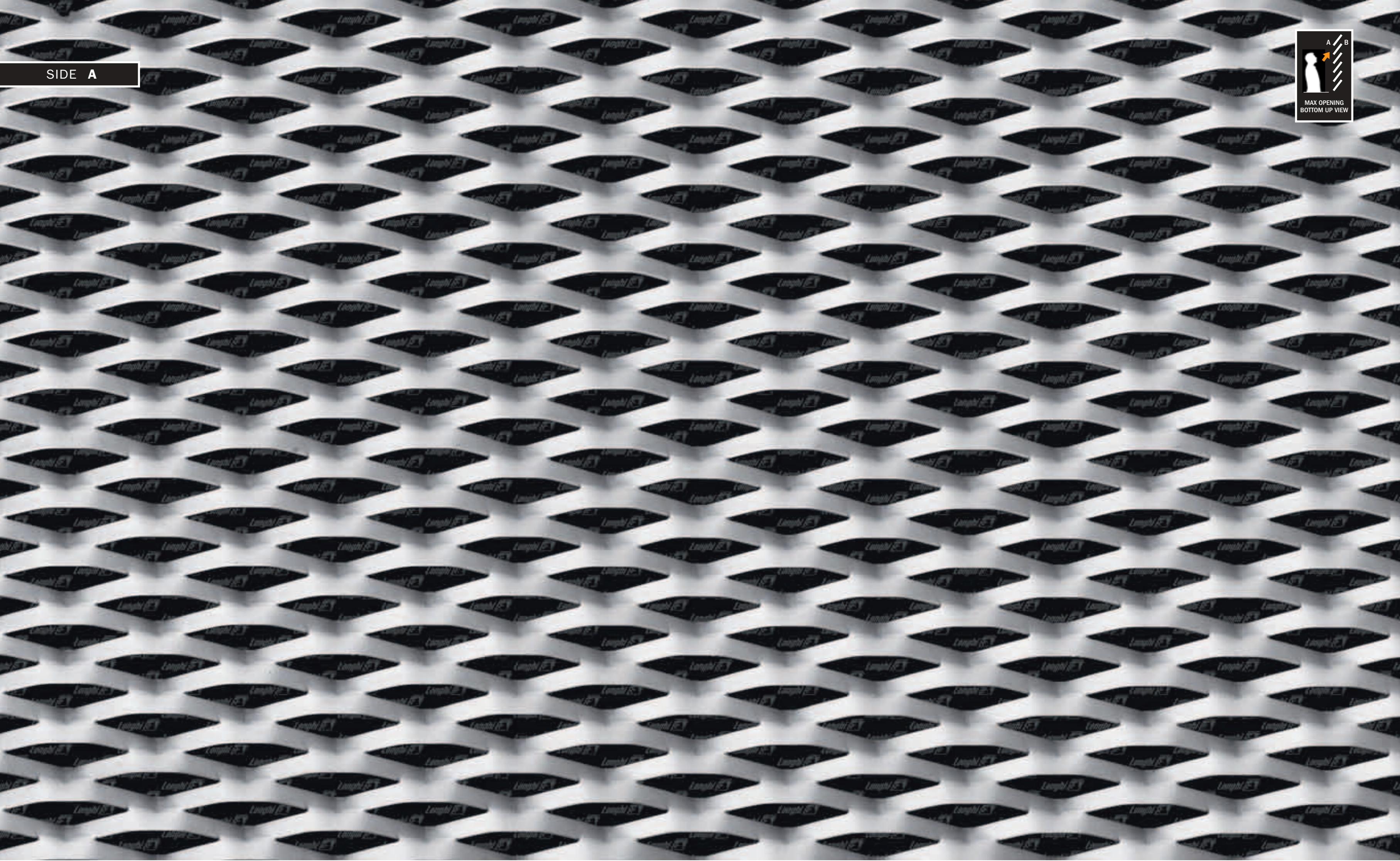
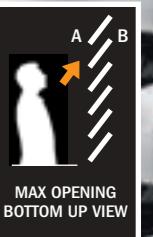
pro tech



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E 45 x 15 (13,4) - 5 x 1,5	8,80	3,00	LW 1000 x SW 2000	7 (~) ♦	33,3 (~)
E 45 x 15 (13,4) - 5 x 2,0	11,60	4,00	LW 1250 x SW 2500		
E 45 x 15 (13,4) - 5 x 3,0	17,50	6,00	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 2000 Max		

◆ Framing profiles: see page 192

SIDE A



Fils 5

R 62,5 x 20 (20) - 7,5 x t

| TYPE | LW

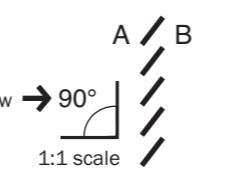
| SW NOMINAL

| SW ACTUAL

| w

| t

pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 62,5 x 20 (20) - 7,5 x 1,5	9,00	3,00	LW 1000 x SW 2000	10 (~) ♦	36,2 (~)
R 62,5 x 20 (20) - 7,5 x 2,0	12,00	4,00	LW 1250 x SW 2500		
R 62,5 x 20 (20) - 7,5 x 3,0	18,00	6,00	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 2000 Max		

◆ Framing profiles: see page 192

SIDE B



Fils 5

R 62,5 x 20 (20) - 7,5 x t

| TYPE | LW

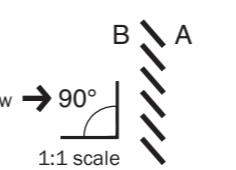
| SW NOMINAL |

| SW ACTUAL |

| w |

| t |

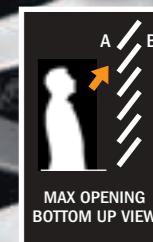
pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 62,5 x 20 (20) - 7,5 x 1,5	9,00	3,00	LW 1000 x SW 2000	10 (~) ♦	36,2 (~)
R 62,5 x 20 (20) - 7,5 x 2,0	12,00	4,00	LW 1250 x SW 2500		
R 62,5 x 20 (20) - 7,5 x 3,0	18,00	6,00	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 2000 Max		

◆ Framing profiles: see page 192

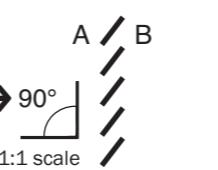
SIDE A

**Airport****R 62,5 x 20 (25,5) - 9,1 x t**

| TYPE | LW

| SW NOMINAL | SW ACTUAL

| w | t



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 62,5 x 20 (25,5) - 9,1 x 1,5	8,20	2,70	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 2000 Max	11 (~) ♦	42 (~)
R 62,5 x 20 (25,5) - 9,1 x 2,0	11,00	3,60			

◆ Framing profiles: see page 192

SIDE B



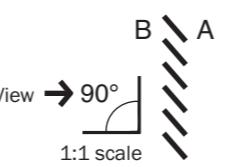
MAX OPENING
TOP DOWN VIEW

Airport

R 62,5 x 20 (25,5) - 9,1 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 62,5 x 20 (25,5) - 9,1 x 1,5	8,20	2,70	LW 1000 x SW 2000	11 (~) ♦	42 (~)
R 62,5 x 20 (25,5) - 9,1 x 2,0	11,00	3,60	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 2000 Max		

◆ Framing profiles: see page 192

SIDE A



Privacy

R 62,5 x 20 (29) - 14 x t

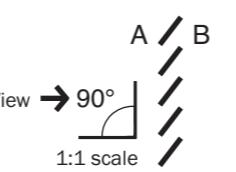
| TYPE | LW

| SW NOMINAL | SW ACTUAL

| w |

| t |

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 62,5 x 20 (29) - 14 x 1,5	11,70	3,90	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1500 Max	8 (~) ♦	5,3 (~)
R 62,5 x 20 (29) - 14 x 2,0	15,60	5,20			

◆ Framing profiles: see page 192

SIDE B

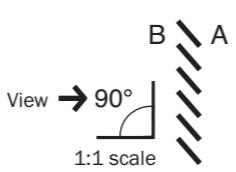


Privacy

R 62,5 x 20 (29) - 14 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

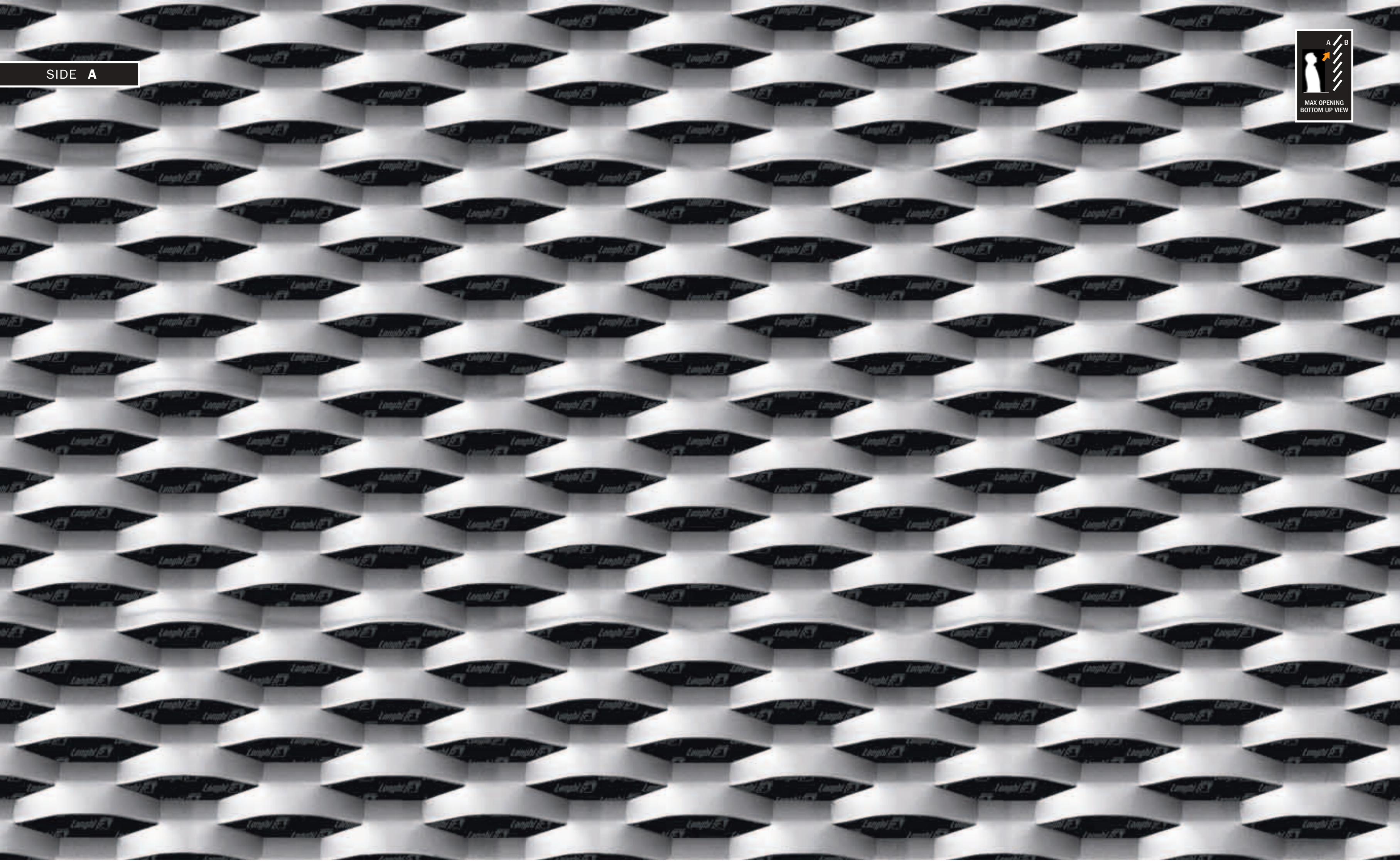
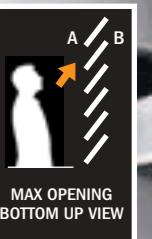
pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 62,5 x 20 (29) - 14 x 1,5	11,70	3,90	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1500 Max	8 (~) ♦	5,3 (~)
R 62,5 x 20 (29) - 14 x 2,0	15,60	5,20			

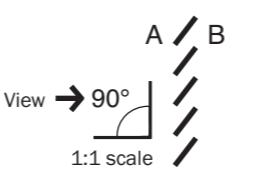
◆ Framing profiles: see page 192

SIDE A

**Esedra**

E 70 x 26 (26) - 10 x t
 | TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

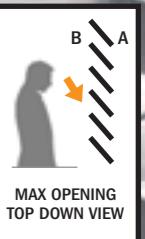
pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 70 x 26 (26) - 10 x 1,5	9,00	3,10	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1800 Max	11 (~) ♦	29 (~)
E 70 x 26 (26) - 10 x 2,0	12,00	4,20			

◆ Framing profiles: see page 192

SIDE B



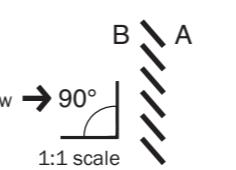
Esedra

 **Fils**

E 70 x 26 (26) - 10 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

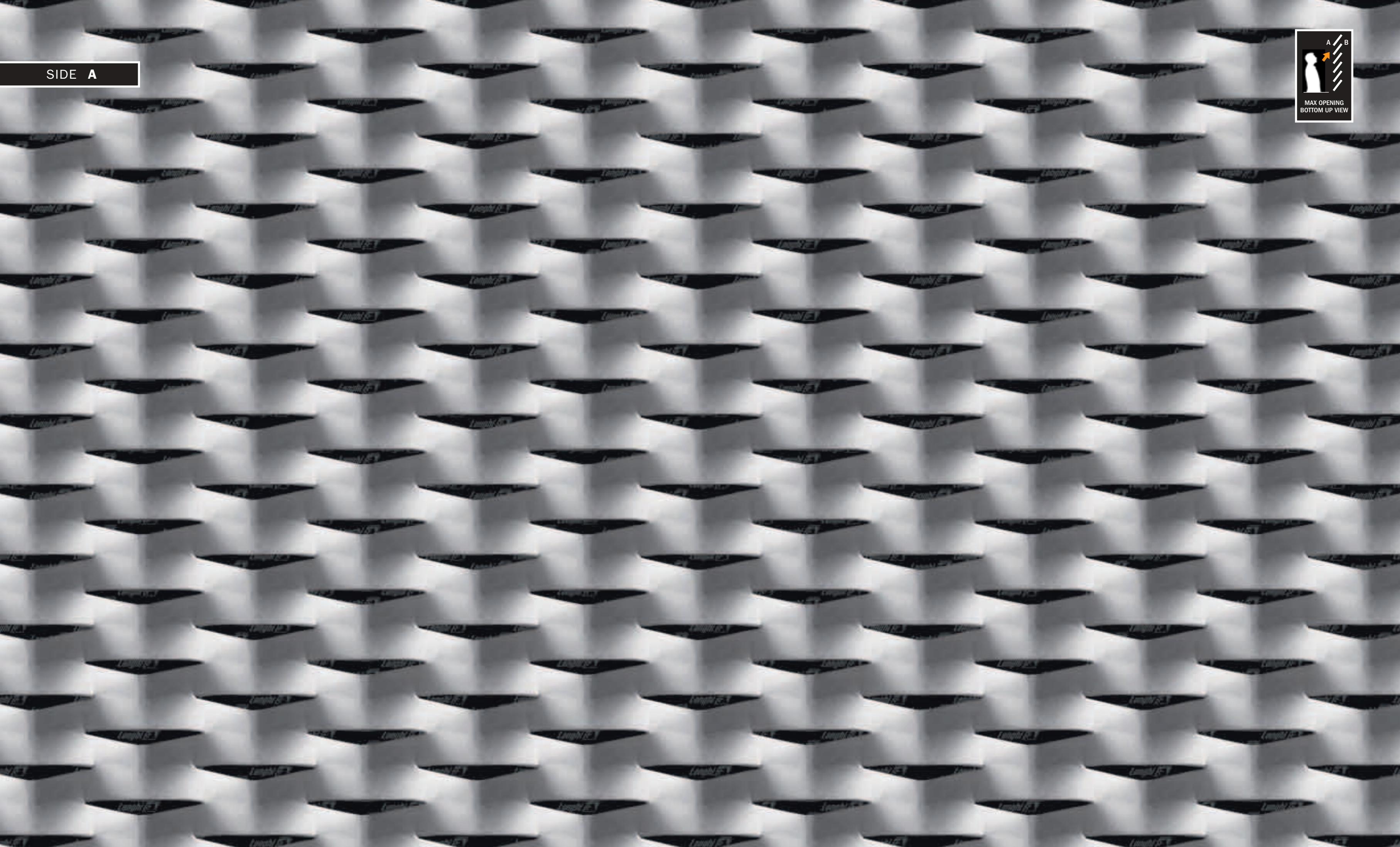
pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 70 x 26 (26) - 10 x 1,5	9,00	3,10	LW 1000 x SW 2000	11 (~) ♦	29 (~)
E 70 x 26 (26) - 10 x 2,0	12,00	4,20	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1800 Max		

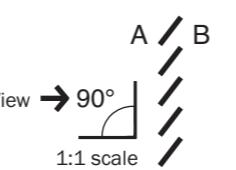
◆ Framing profiles: see page 192

SIDE A

**Idea**

R 76 x 31 (24) - 11 x t
 TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 76 x 31 (24) - 11 x 1,5	10,60	3,60	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1600 Max	11 (~) ♦	13,3 (~)
R 76 x 31 (24) - 11 x 2,0	14,10	4,70			

◆ Framing profiles: see page 192

SIDE B



B
A

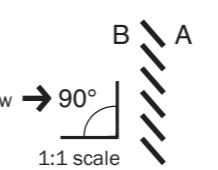
MAX OPENING
TOP DOWN VIEW

Idea

R 76 x 31 (24) - 11 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

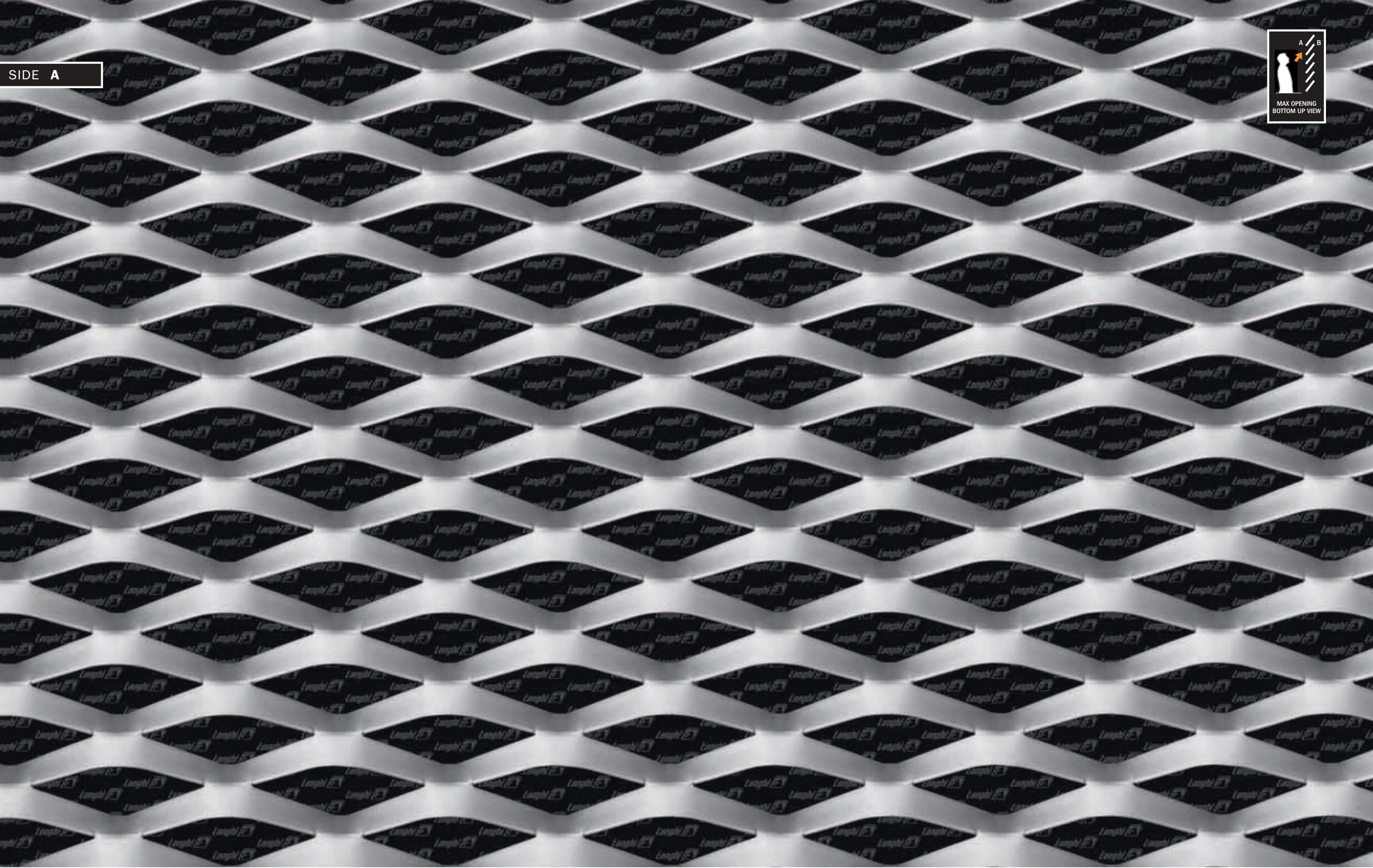
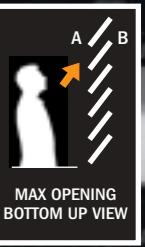
pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 76 x 31 (24) - 11 x 1,5	10,60	3,60	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1600 Max	11 (~) ♦	13,3 (~)
R 76 x 31 (24) - 11 x 2,0	14,10	4,70			

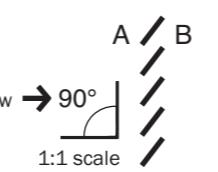
◆ Framing profiles: see page 192

SIDE A

**Gate**

R 76 x 31 (35) - 11 x t
 TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

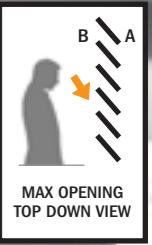
pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 76 x 31 (35) - 11 x 1,5	7,80	2,60	LW 1000 x SW 2000		
R 76 x 31 (35) - 11 x 2,0	10,20	3,40	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 2300 Max	14 (~) ♦	42 (~)

◆ Framing profiles: see page 192

SIDE B

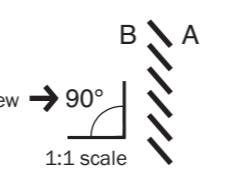


Gate

R 76 x 31 (35) - 11 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 76 x 31 (35) - 11 x 1,5	7,80	2,60	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 2300 Max	14 (~) ♦	42 (~)
R 76 x 31 (35) - 11 x 2,0	10,20	3,40			

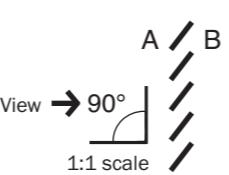
◆ Framing profiles: see page 192

SIDE A

**Reserve****R 90 x 30 (38) - 18 x t**

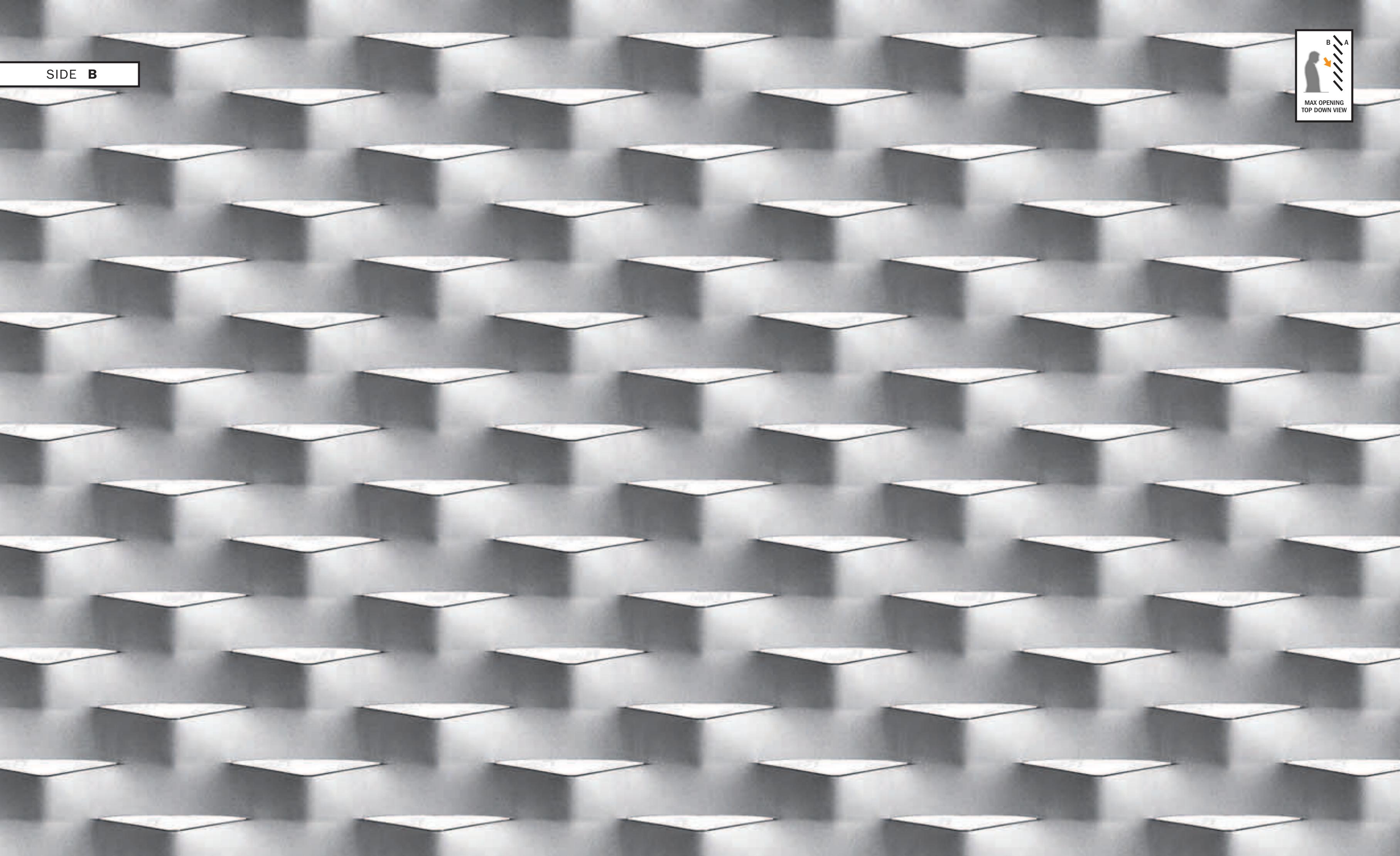
| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 90 x 30 (38) - 18 x 1,5	11,00	3,60	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1500 Max	13 (~) ♦	10 (~)
R 90 x 30 (38) - 18 x 2,0	14,60	4,80			

◆ Framing profiles: see page 192



SIDE B

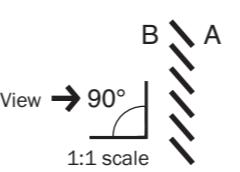


Reserve

R 90 x 30 (38) - 18 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

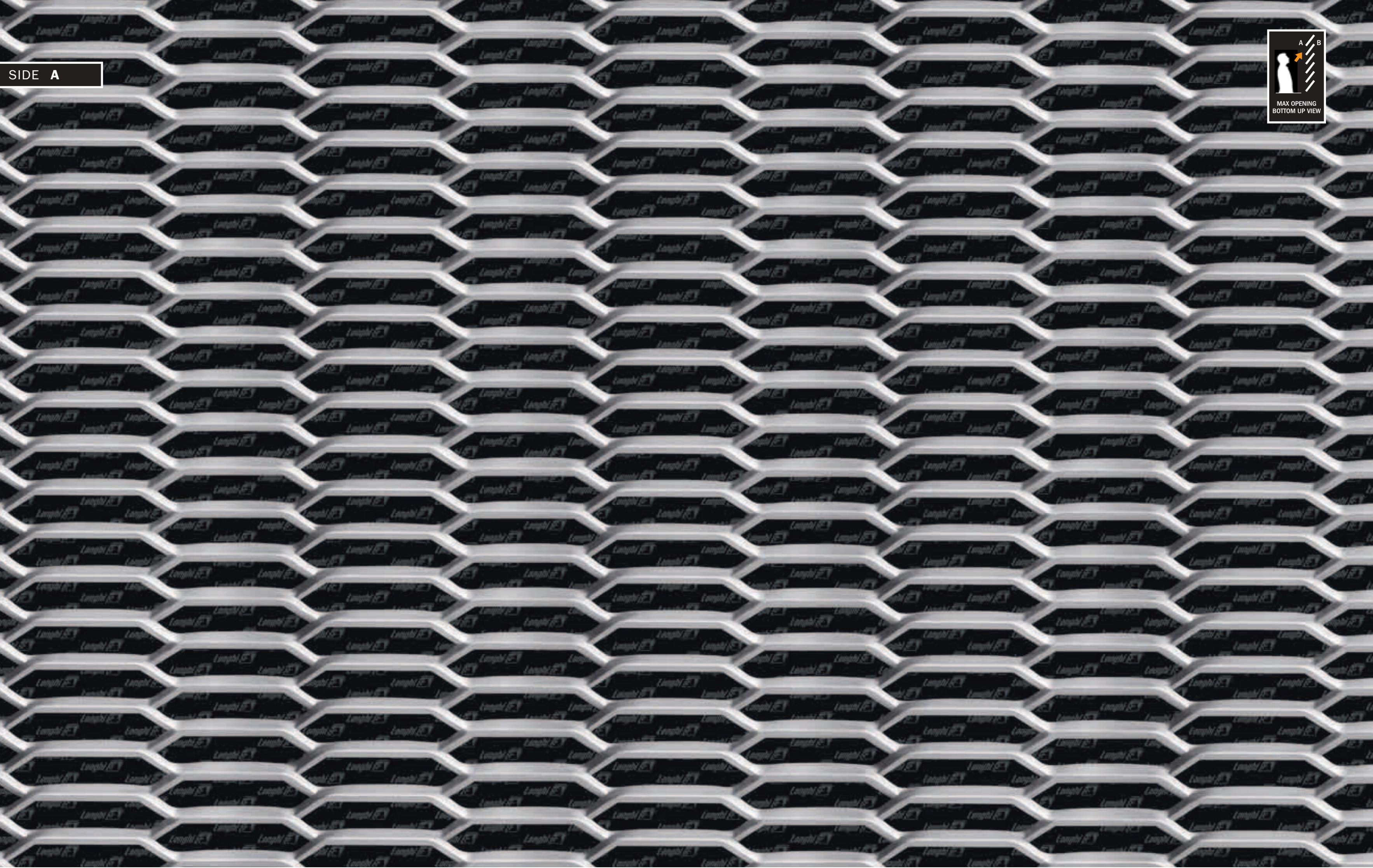
pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 90 x 30 (38) - 18 x 1,5	11,00	3,60	LW 1000 x SW 2000	13 (~) ♦	10 (~)
R 90 x 30 (38) - 18 x 2,0	14,60	4,80	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1500 Max		

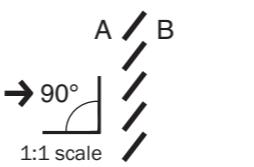
◆ Framing profiles: see page 192

SIDE A

**Greca****E 100 x 40 (15) - 4 x t**

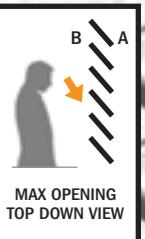
| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 100 x 40 (15) - 4 x 2,0	8,30	2,90	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 2500 Max	7 (~) ♦	52 (~)
E 100 x 40 (15) - 4 x 3,0	12,50	4,30			

SIDE B



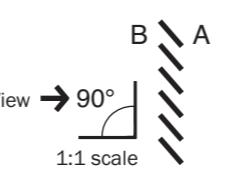
Greca

 **Fils**

E 100 x 40 (15) - 4 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

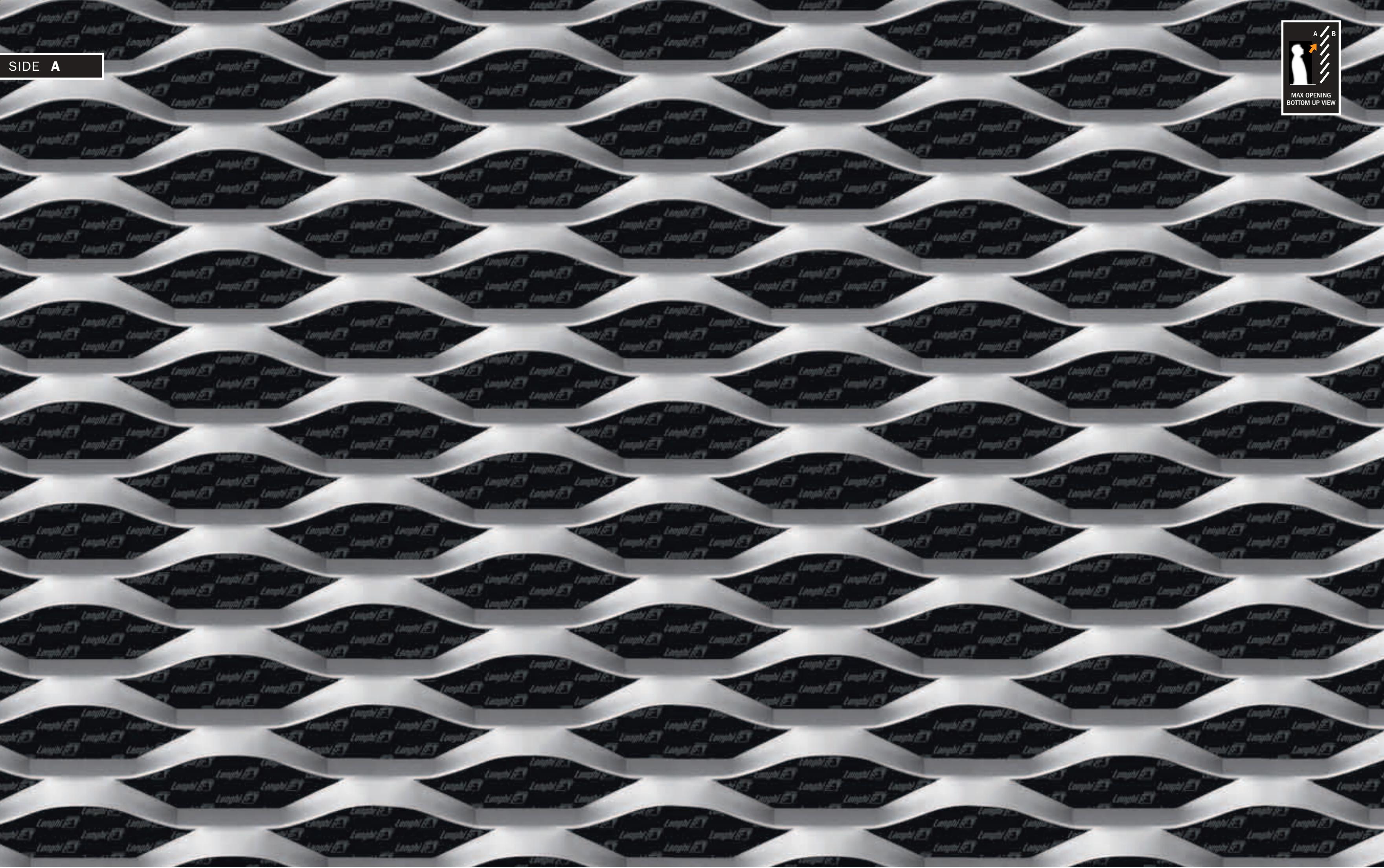
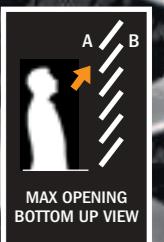
pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 100 x 40 (15) - 4 x 2,0	8,30	2,90	LW 1000 x SW 2000	7 (~) ♦	52 (~)
E 100 x 40 (15) - 4 x 3,0	12,50	4,30	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 2500 Max		

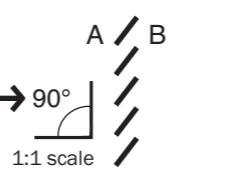
◆ Framing profiles: see page 192

SIDE A

**Grafica****E 100 x 40 (34) - 10 x t**

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech

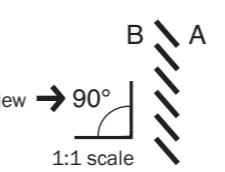


Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 100 x 40 (34) - 10 x 1,5	6,90	2,30	LW 1000 x SW 2000		
E 100 x 40 (34) - 10 x 2,0	9,30	3,10	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 2500 Max	15 (~) ♦	51,5 (~)

SIDE B

**Grafica****Fils****E 100 x 40 (34) - 10 x t**

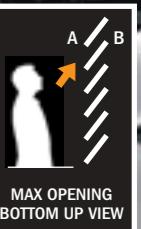
| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 100 x 40 (34) - 10 x 1,5	6,90	2,30	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 2500 Max	15 (~) ♦	51,5 (~)
E 100 x 40 (34) - 10 x 2,0	9,30	3,10			

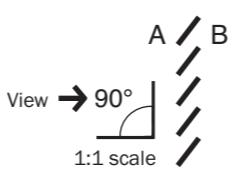
◆ Framing profiles: see page 192

SIDE A

MAX OPENING
BOTTOM UP VIEW**Esperia****E 100 x 40 (34) - 15 x t**

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 100 x 40 (34) - 15 x 1,5	10,30	3,40	LW 1000 x SW 2000		
E 100 x 40 (34) - 15 x 2,0	13,70	4,50	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1700 Max	13 (~) ♦	23,3 (~)

◆ Framing profiles: see page 192

SIDE B

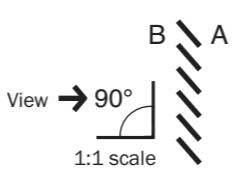


Esperia

E 100 x 40 (34) - 15 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 100 x 40 (34) - 15 x 1,5	10,30	3,40	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1700 Max	13 (~) ♦	23,3 (~)
E 100 x 40 (34) - 15 x 2,0	13,70	4,50			

◆ Framing profiles: see page 192

SIDE A

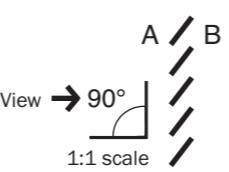


Ambasciata

R 110 x 40 (52) - 24 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

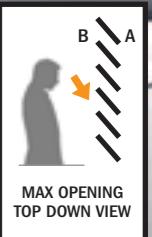
pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 110 x 40 (52) - 24 x 1,5	10,60	3,60	LW 1000 x SW 2000		
R 110 x 40 (52) - 24 x 2,0	14,10	4,70	LW 1250 x SW 2500		
R 110 x 40 (52) - 24 x 3,0	21,10	7,00	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1600 Max	18 (~) ♦	16 (~)

◆ Framing profiles: see page 192

SIDE B



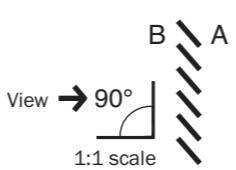
Ambasciata



R 110 x 40 (52) - 24 x t

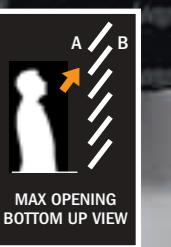
| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech

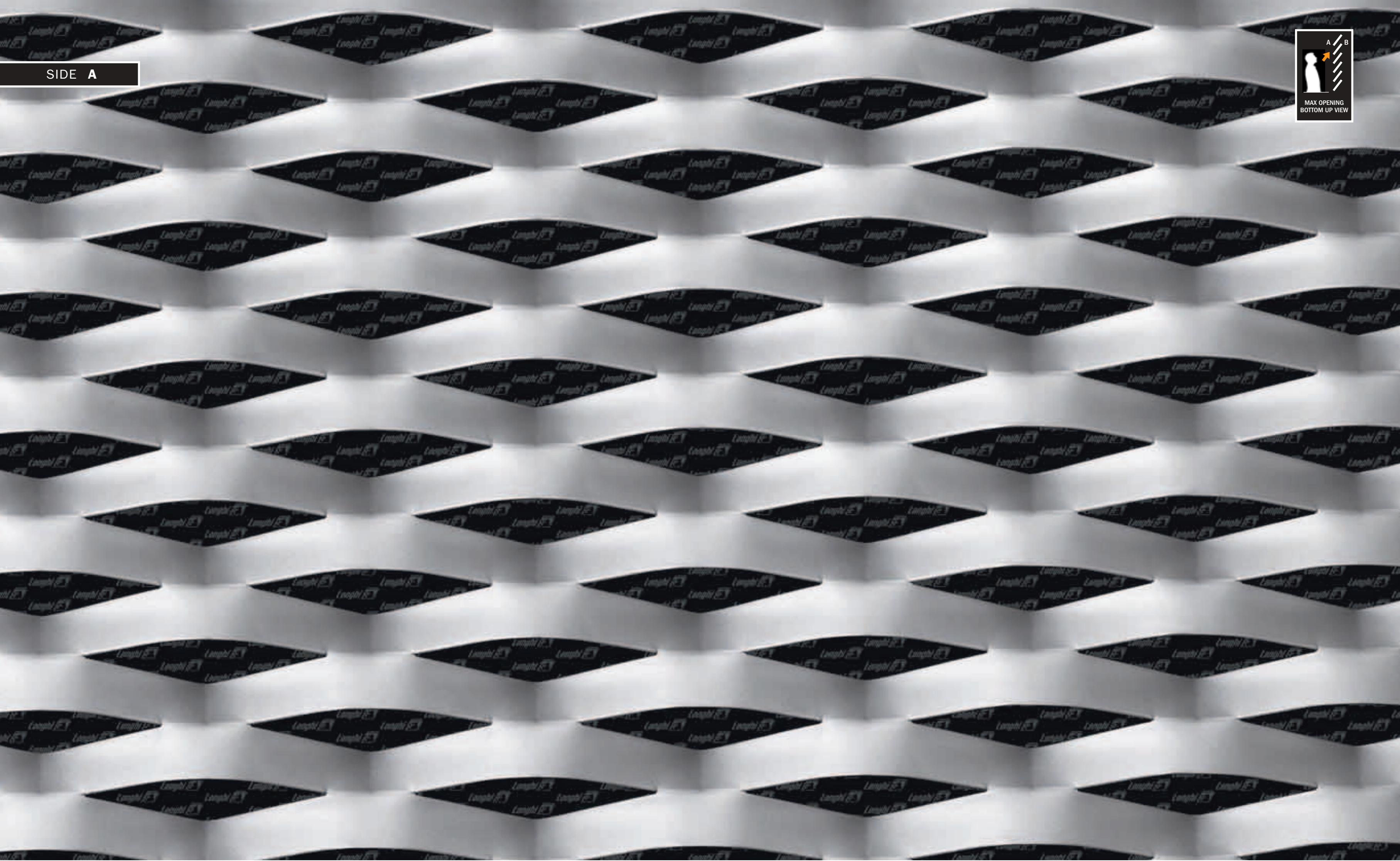


Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 110 x 40 (52) - 24 x 1,5	10,60	3,60	LW 1000 x SW 2000		
R 110 x 40 (52) - 24 x 2,0	14,10	4,70	LW 1250 x SW 2500		
R 110 x 40 (52) - 24 x 3,0	21,10	7,00	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1600 Max	18 (~) ♦	16 (~)

◆ Framing profiles: see page 192



SIDE A

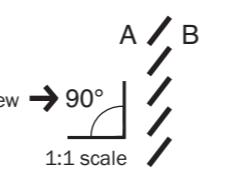


Academy

R 115 x 40 (48) - 20 x t

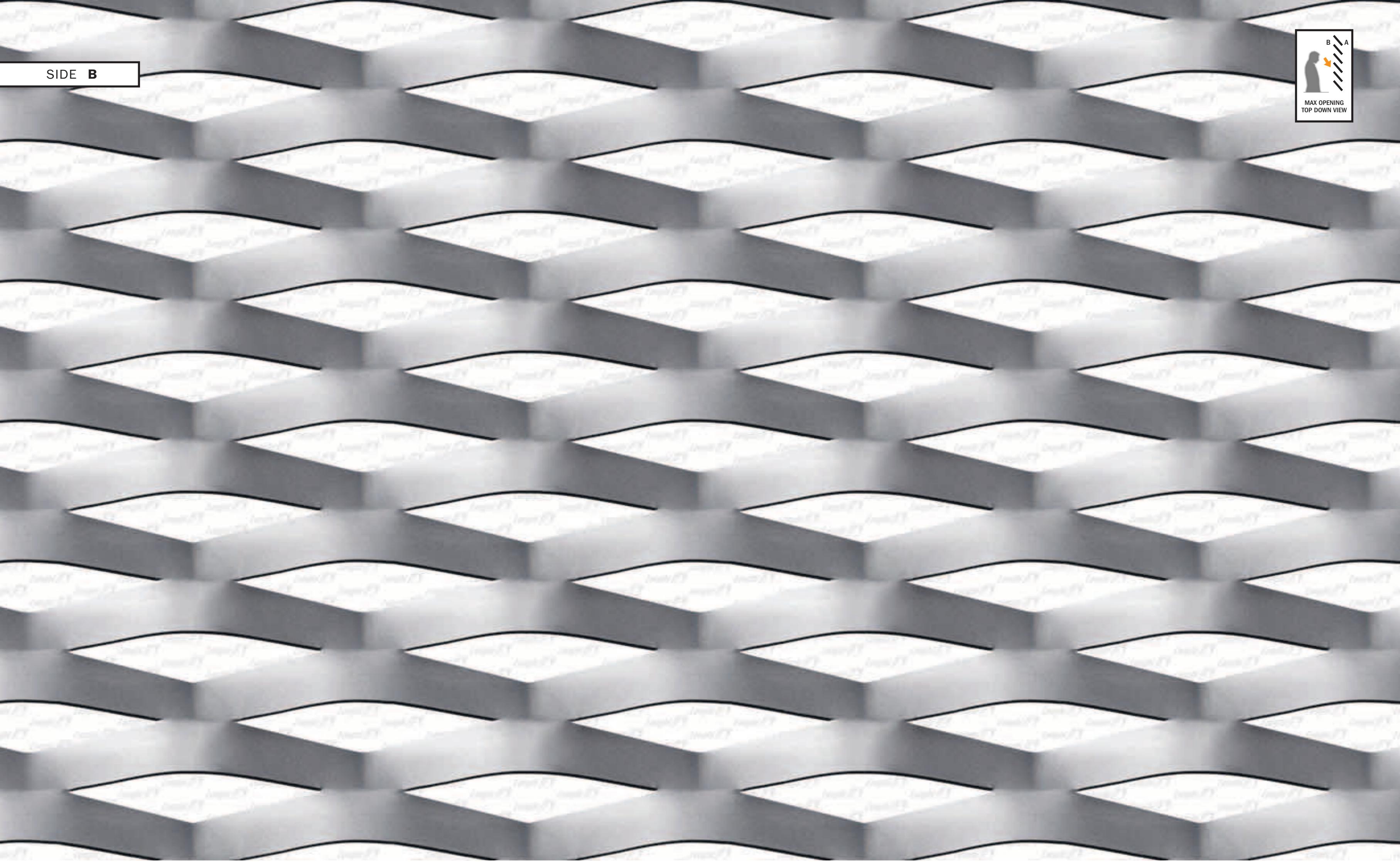
| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 115 x 40 (48) - 20 x 1,5	9,70	3,20	LW 1000 x SW 2000	21 (~) ♦	26 (~)
R 115 x 40 (48) - 20 x 2,0	12,80	4,20	LW 1250 x SW 2500		
R 115 x 40 (48) - 20 x 3,0	19,30	6,40	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1800 Max		

◆ Framing profiles: see page 192



Academy

R 115 x 40 (48) - 20 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech

B A
View → 90°
1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 115 x 40 (48) - 20 x 1,5	9,70	3,20	LW 1000 x SW 2000	21 (~) ♦	26 (~)
R 115 x 40 (48) - 20 x 2,0	12,80	4,20	LW 1250 x SW 2500		
R 115 x 40 (48) - 20 x 3,0	19,30	6,40	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1800 Max		

◆ Framing profiles: see page 192

SIDE A

**Lucerna****Fils****E 150 x 56 (56) - 21,5 x t**

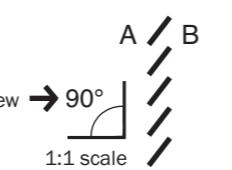
| TYPE | LW

| SW NOMINAL

| SW ACTUAL

| w

| t

pro tech

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 150 x 56 (56) - 21,5 x 1,5	9,30	3,10	LW 1000 x SW 2000	21 (~) ♦	29,8 (~)
E 150 x 56 (56) - 21,5 x 2,0	12,40	4,20	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1800 Max		

◆ Framing profiles: see page 192

SIDE B

**Lucerna****Fils****E 150 x 56 (56) - 21,5 x t**

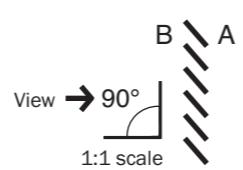
TYPE | LW

SW NOMINAL

SW ACTUAL

w

t

pro tech

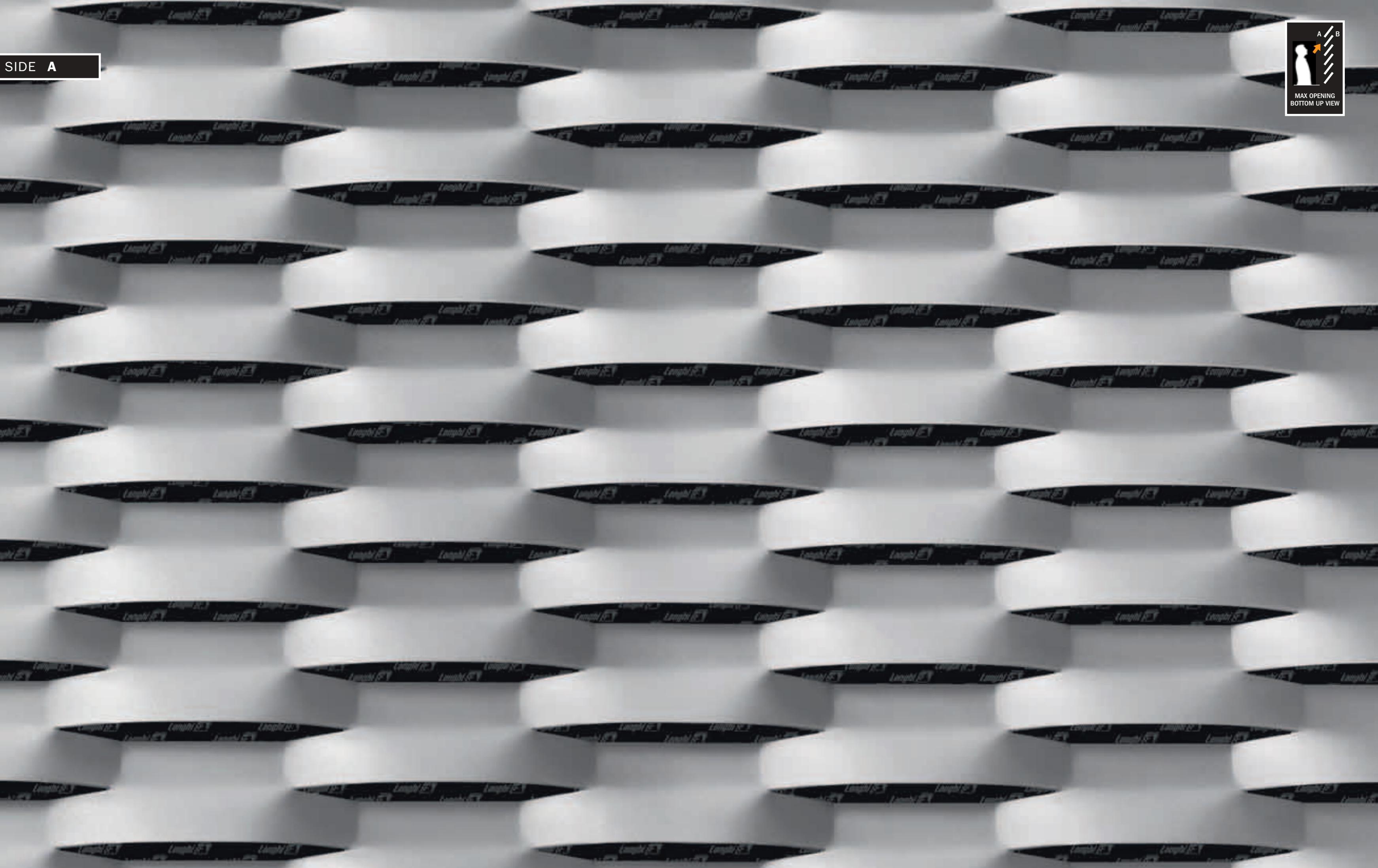
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 150 x 56 (56) - 21,5 x 1,5	9,30	3,10	LW 1000 x SW 2000	21 (~) ♦	29,8 (~)
E 150 x 56 (56) - 21,5 x 2,0	12,40	4,20	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1800 Max		

◆ Framing profiles: see page 192



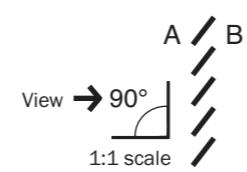
SIDE A

A / B

MAX OPENING
BOTTOM UP VIEW**College****E 160 x 40 (40) - 18 x t**

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

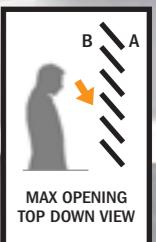
pro tech/



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 160 x 40 (40) - 18 x 1,5	10,80	3,60	LW 1000 x SW 2000		
E 160 x 40 (40) - 18 x 2,0	14,40	4,80	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1600 Max	16 (~) ♦	15,4 (~)

♦ Framing profiles: see page 192

SIDE B



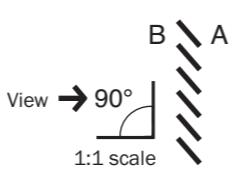
College

FILS

E 160 x 40 (40) - 18 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech

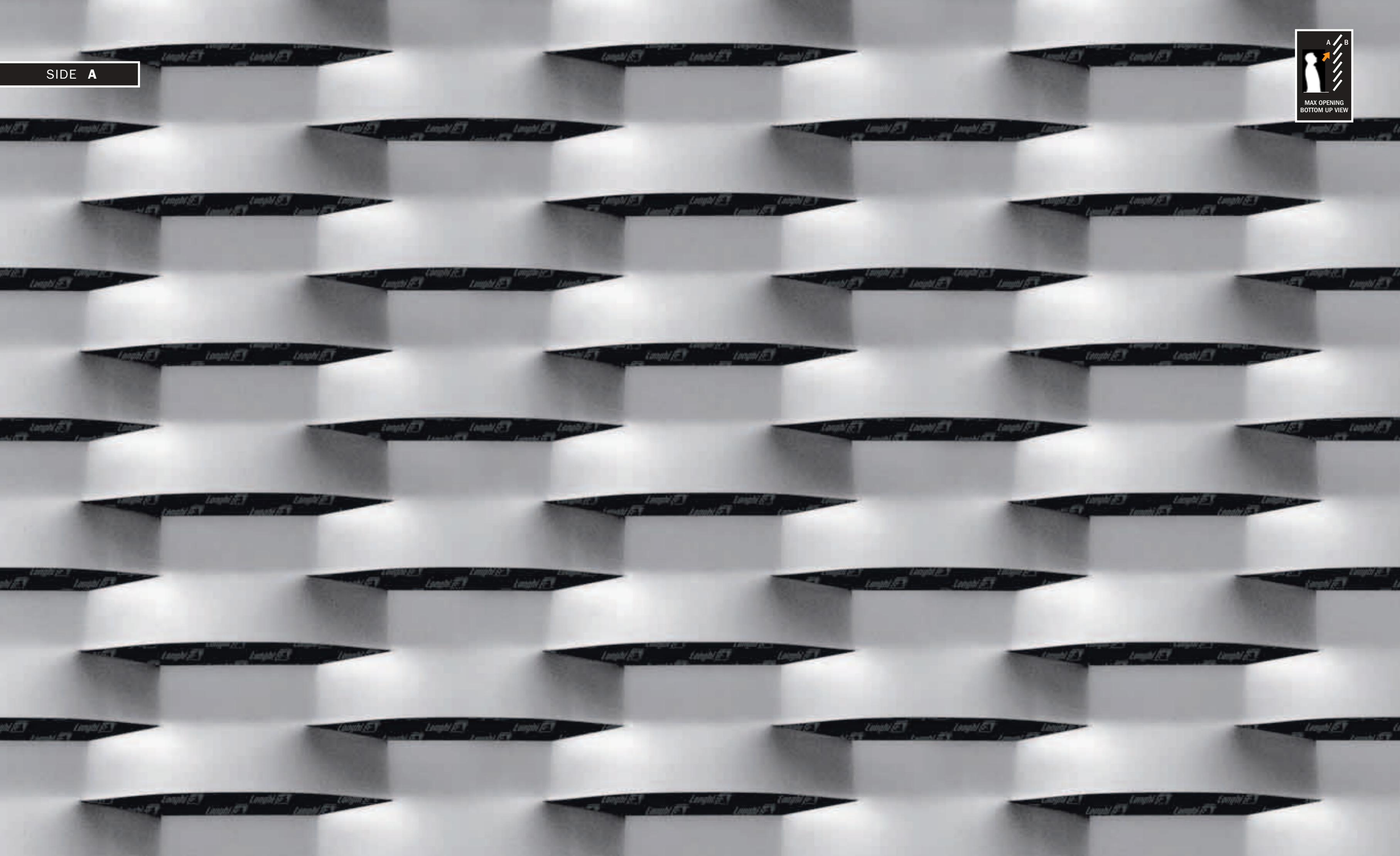


Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 160 x 40 (40) - 18 x 1,5	10,80	3,60	LW 1000 x SW 2000	16 (~) ♦	15,4 (~)
E 160 x 40 (40) - 18 x 2,0	14,40	4,80	LW 1250 x SW 2500		
			LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1600 Max		

◆ Framing profiles: see page 192

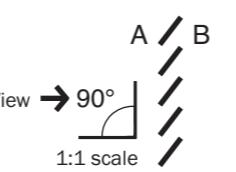


SIDE A

**Omega****E 160 x 40 (52) - 24 x t**

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech/



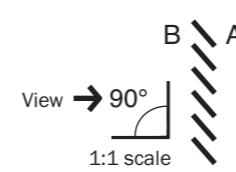
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 160 x 40 (52) - 24 x 1,5	10,80	3,60	LW 1000 x SW 2000		
E 160 x 40 (52) - 24 x 2,0	14,40	4,80	LW 1250 x SW 2500		
E 160 x 40 (52) - 24 x 3,0	21,60	7,20	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1600 Max	16 (~) ♦	15 (~)

◆ Framing profiles: see page 192

SIDE B

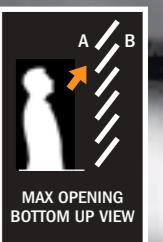
**Omega****E 160 x 40 (52) - 24 x t**

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

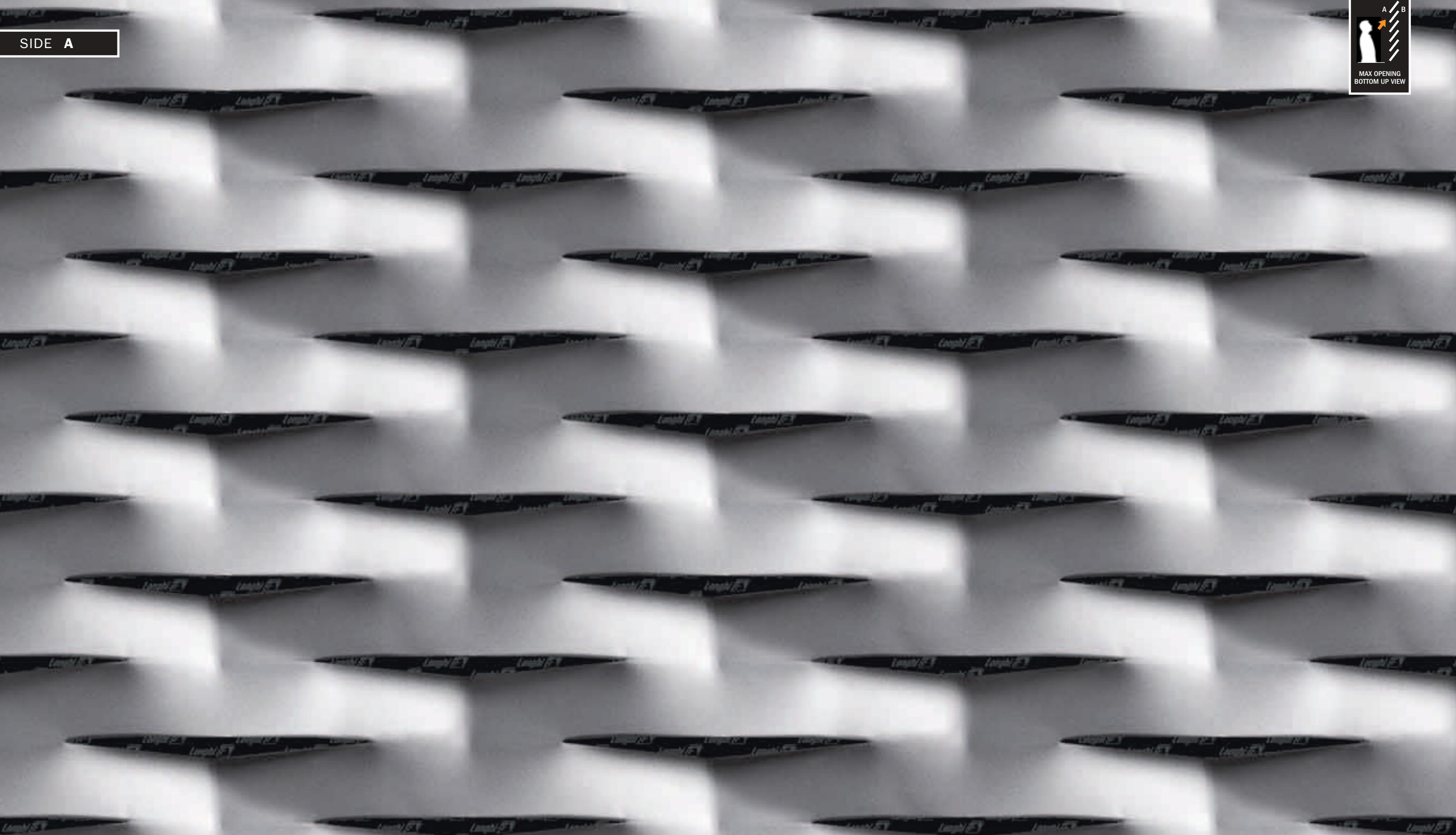
pro tech

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 160 x 40 (52) - 24 x 1,5	10,80	3,60	LW 1000 x SW 2000	16 (~) ♦	15 (~)
E 160 x 40 (52) - 24 x 2,0	14,40	4,80	LW 1250 x SW 2500		
E 160 x 40 (52) - 24 x 3,0	21,60	7,20	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1600 Max		

◆ Framing profiles: see page 192



SIDE A

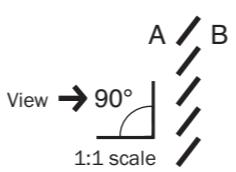
MAX OPENING
BOTTOM UP VIEW

Sierra

R 160 x 40 (52) - 24 x t

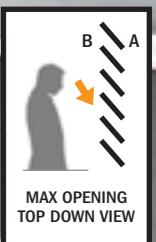
| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 160 x 40 (52) - 24 x 1,5	10,60	3,60	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1600 Max	18 (~) ♦	10,2 (~)
R 160 x 40 (52) - 24 x 2,0	14,10	4,70			

SIDE B



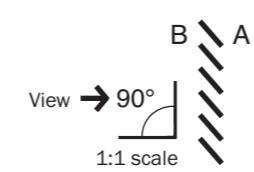
Sierra

Fils

R 160 x 40 (52) - 24 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

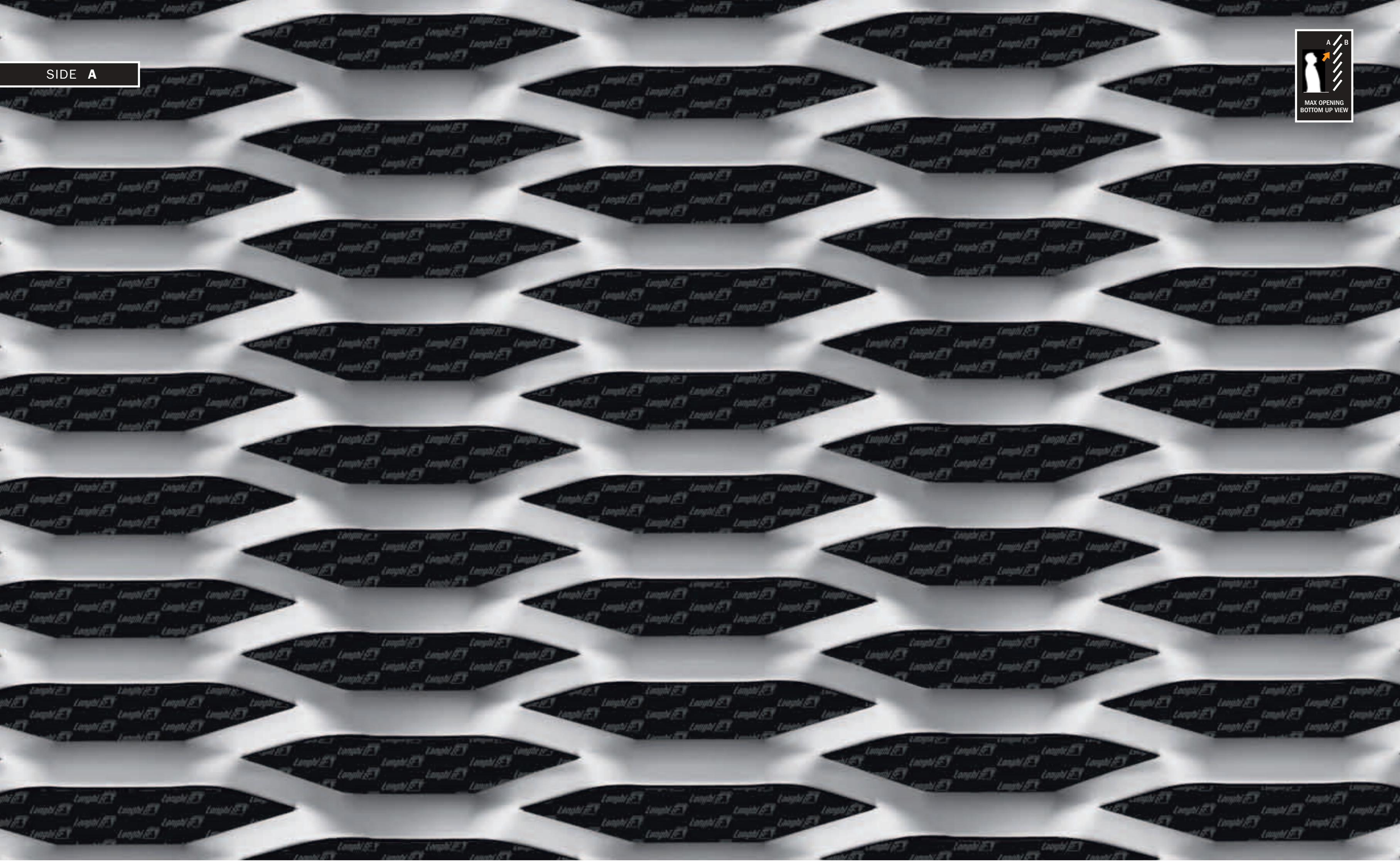
pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 160 x 40 (52) - 24 x 1,5	10,60	3,60	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1600 Max	18 (~) ♦	10,2 (~)
R 160 x 40 (52) - 24 x 2,0	14,10	4,70			



SIDE A

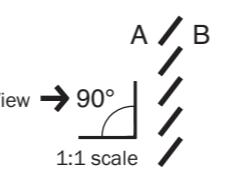


Prisma

E 200 x 65 (35) - 15 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

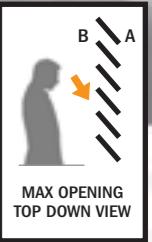
pro tech



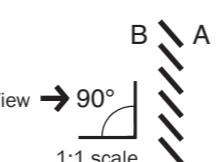
View → 90°
1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 200 x 65 (35) - 15 x 1,5	10,10	/	LW 1000 x SW 2000	17 (~) ♦	20,5 (~)
E 200 x 65 (35) - 15 x 2,0	13,50	4,60	LW 1250 x SW 2500		
E 200 x 65 (35) - 15 x 3,0	/	6,90	LW 1500 x SW 3000 LW 2000 - 2500 x SW 1700 Max		

◆ Framing profiles: see page 192



SIDE B

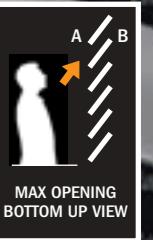
**Prisma****E 200 x 65 (35) - 15 x t**

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech/

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 200 x 65 (35) - 15 x 1,5	10,10	/	LW 1000 x SW 2000	17 (~) ♦	20,5 (~)
E 200 x 65 (35) - 15 x 2,0	13,50	4,60	LW 1250 x SW 2500		
E 200 x 65 (35) - 15 x 3,0	/	6,90	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 1700 Max		

◆ Framing profiles: see page 192



SIDE A

Fils

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Stadium**E 200 x 65 (70) - 20,6 x t**

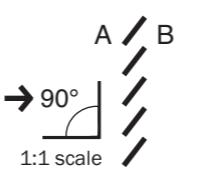
| TYPE | LW

| SW NOMINAL

| SW ACTUAL

| w

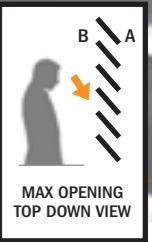
| t

pro tech

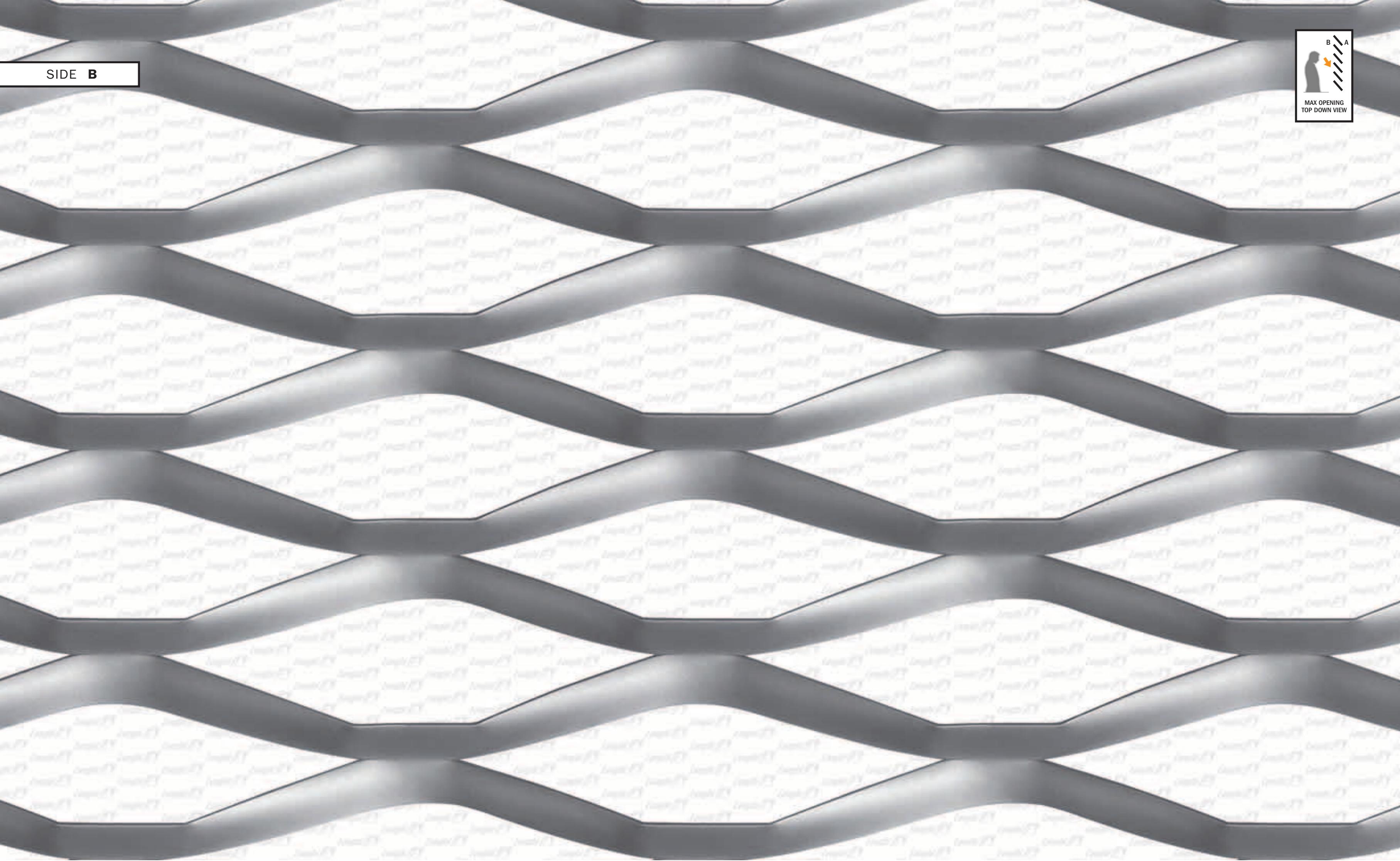
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 200 x 65 (70) - 20,6 x 1,5	7,20	2,40	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 2500 Max	28 (~) ♦	56 (~)
E 200 x 65 (70) - 20,6 x 2,0	9,30	3,10			
E 200 x 65 (70) - 20,6 x 3,0	14,00	4,60			

◆ Framing profiles: see page 192

105



SIDE B



Stadium

E 200 x 65 (70) - 20,6 x t

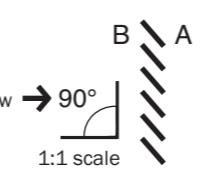
| TYPE | LW

| SW NOMINAL

| SW ACTUAL

| w

| t

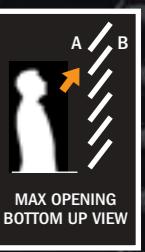
pro tech

View → 90°
1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 200 x 65 (70) - 20,6 x 1,5	7,20	2,40	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 2500 Max	28 (~) ♦	56 (~)
E 200 x 65 (70) - 20,6 x 2,0	9,30	3,10			
E 200 x 65 (70) - 20,6 x 3,0	14,00	4,60			

◆ Framing profiles: see page 192

SIDE A

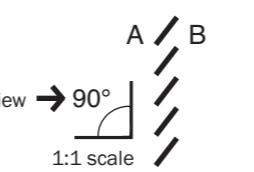


Coliseum

R 200 x 75 (80) - 24 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

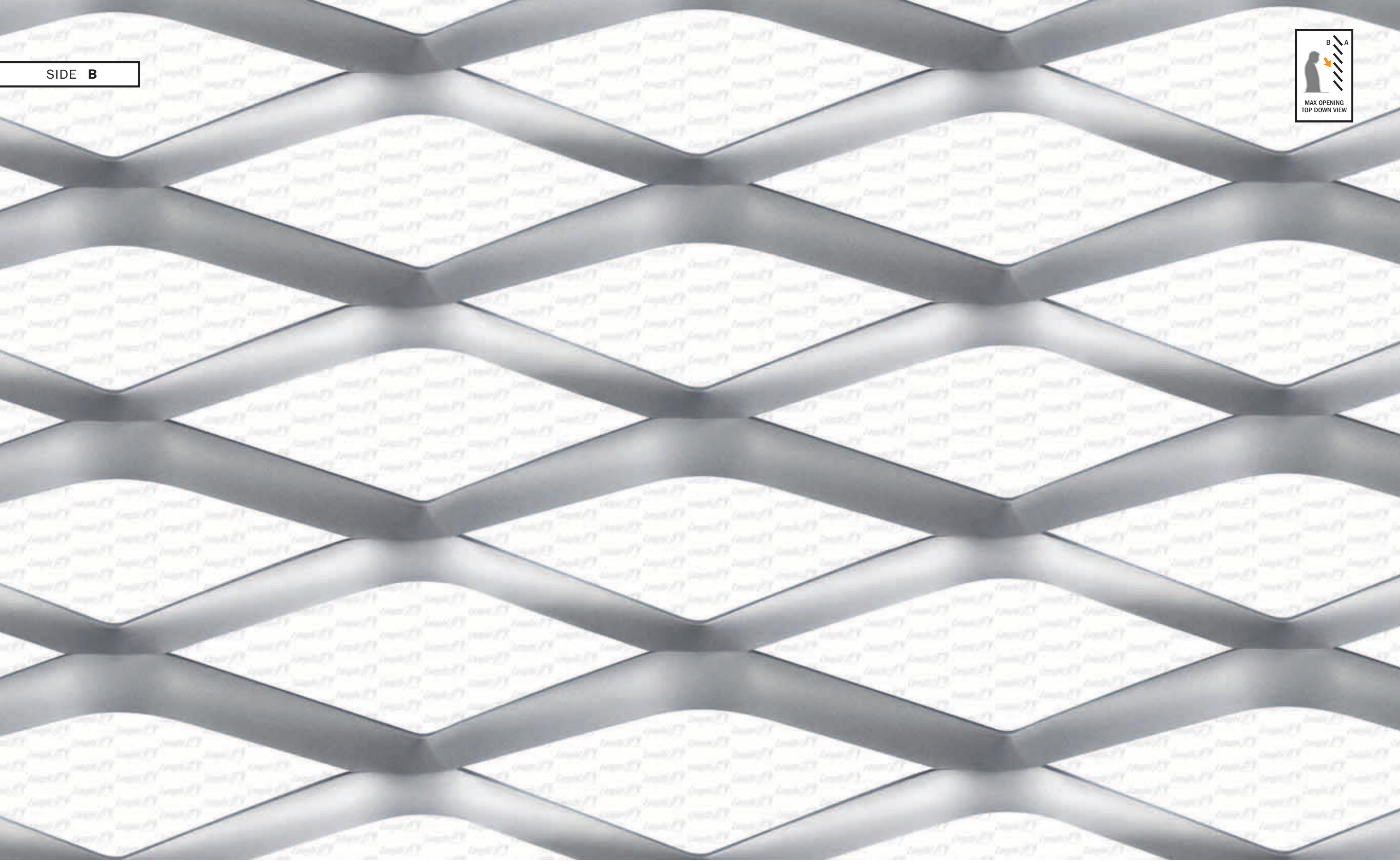
pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 200 x 75 (80) - 24 x 1,5	7,10	2,40	LW 1000 x SW 2000		
R 200 x 75 (80) - 24 x 2,0	9,40	3,20	LW 1250 x SW 2500		
R 200 x 75 (80) - 24 x 3,0	14,10	4,70	LW 1500 x SW 3000 LW 2000 - 2500 x SW 2500 Max	32 (~) ♦	52,3 (~)



SIDE B

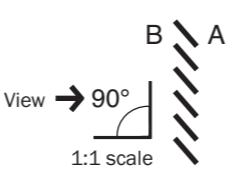


Coliseum

R 200 x 75 (80) - 24 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

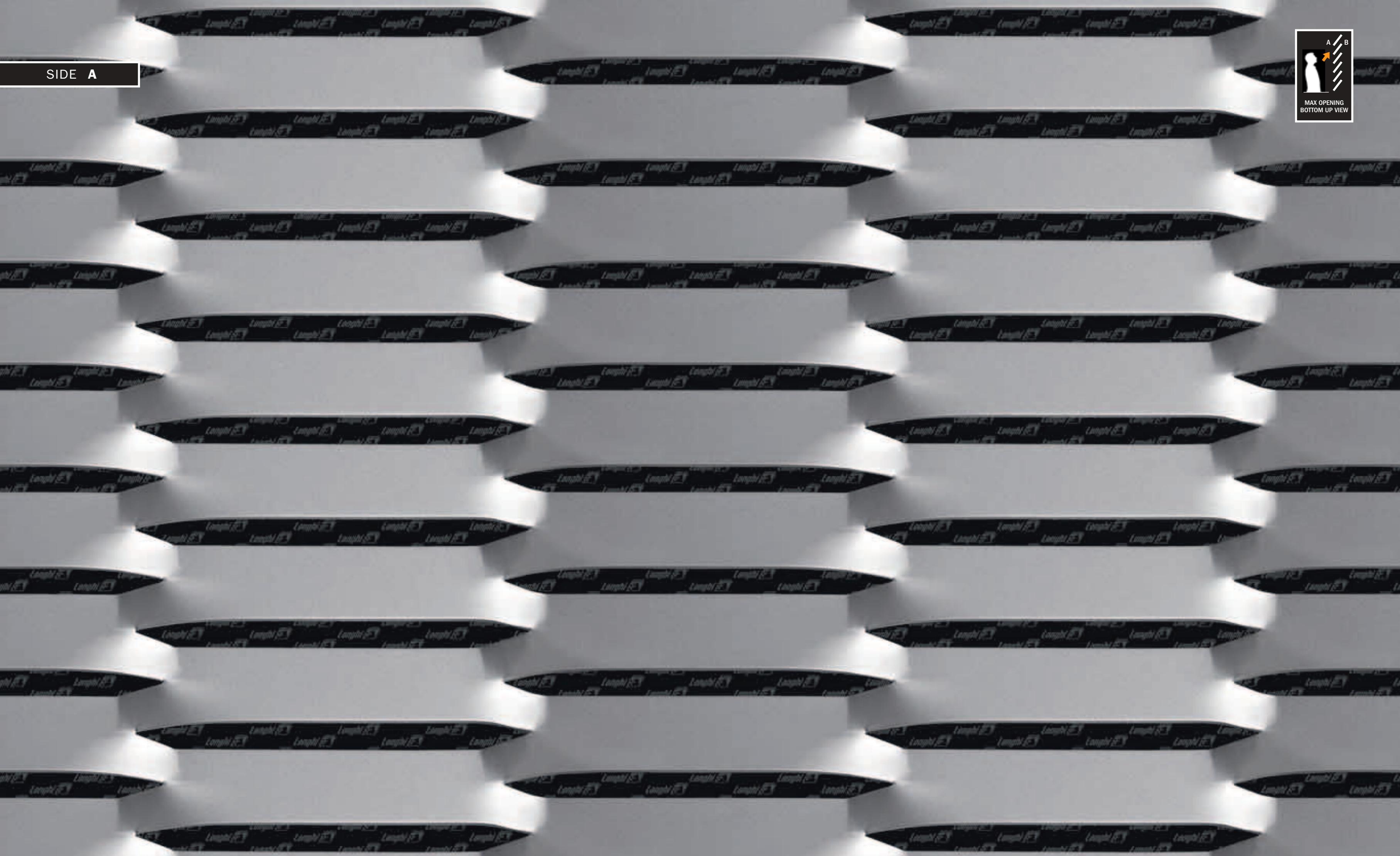
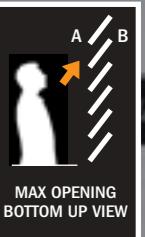
pro tech



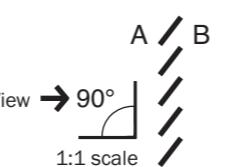
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 200 x 75 (80) - 24 x 1,5	7,10	2,40	LW 1000 x SW 2000	32 (~) ♦	52,3 (~)
R 200 x 75 (80) - 24 x 2,0	9,40	3,20	LW 1250 x SW 2500		
R 200 x 75 (80) - 24 x 3,0	14,10	4,70	LW 1500 x SW 3000		
			LW 2000 - 2500 x SW 2500 Max		

◆ Framing profiles: see page 192

SIDE A

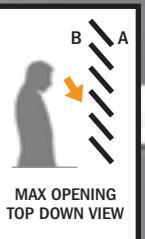
**Phoenix****E 250 x 35 (35) - 15 x t**

| TYPE | LW | SW NOMINALE | SW ACTUAL | w | t

Fils**pro tech**

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 250 x 35 (35) - 15 x 1,5	10,10	3,50	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1600 Max	18 (~) ♦	25 (~)
E 250 x 35 (35) - 15 x 2,0	13,50	4,70			
E 250 x 35 (35) - 15 x 3,0	20,20	7,00			

SIDE B



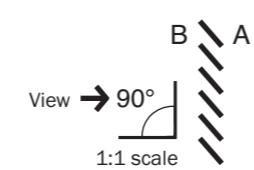
Phoenix

Fils

E 250 x 35 (35) - 15 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

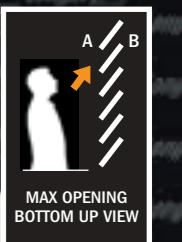
pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 250 x 35 (35) - 15 x 1,5	10,10	3,50	LW 1000 x SW 2000 LW 1250 x SW 2500 LW 1500 x SW 3000 LW 2000 - 2500 x SW 1600 Max	18 (~) ♦	25 (~)
E 250 x 35 (35) - 15 x 2,0	13,50	4,70			
E 250 x 35 (35) - 15 x 3,0	20,20	7,00			

◆ Framing profiles: see page 192

SIDE A



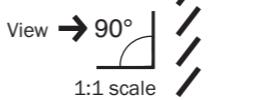
Delta

R 250 x 90 (96) - 25 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

pro tech

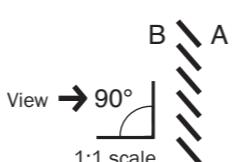
A / B



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 250 x 90 (96) - 25 x 1,5	6,30	2,10	LW 1000 x SW 2000	37 (~) ♦	59 (~)
R 250 x 90 (96) - 25 x 2,0	8,40	2,80	LW 1250 x SW 2500		
R 250 x 90 (96) - 25 x 3,0	12,60	4,20	LW 1500 x SW 3000		



SIDE B



Delta

R 250 x 90 (96) - 25 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

Fils

pro tech

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 250 x 90 (96) - 25 x 1,5	6,30	2,10	LW 1000 x SW 2000	37 (~) ♦	59 (~)
R 250 x 90 (96) - 25 x 2,0	8,40	2,80	LW 1250 x SW 2500		
R 250 x 90 (96) - 25 x 3,0	12,60	4,20	LW 1500 x SW 3000		



SIDE A

Estesa

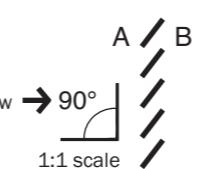
Fils

120

R 270 x 100 (100) - 30 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

pro tech



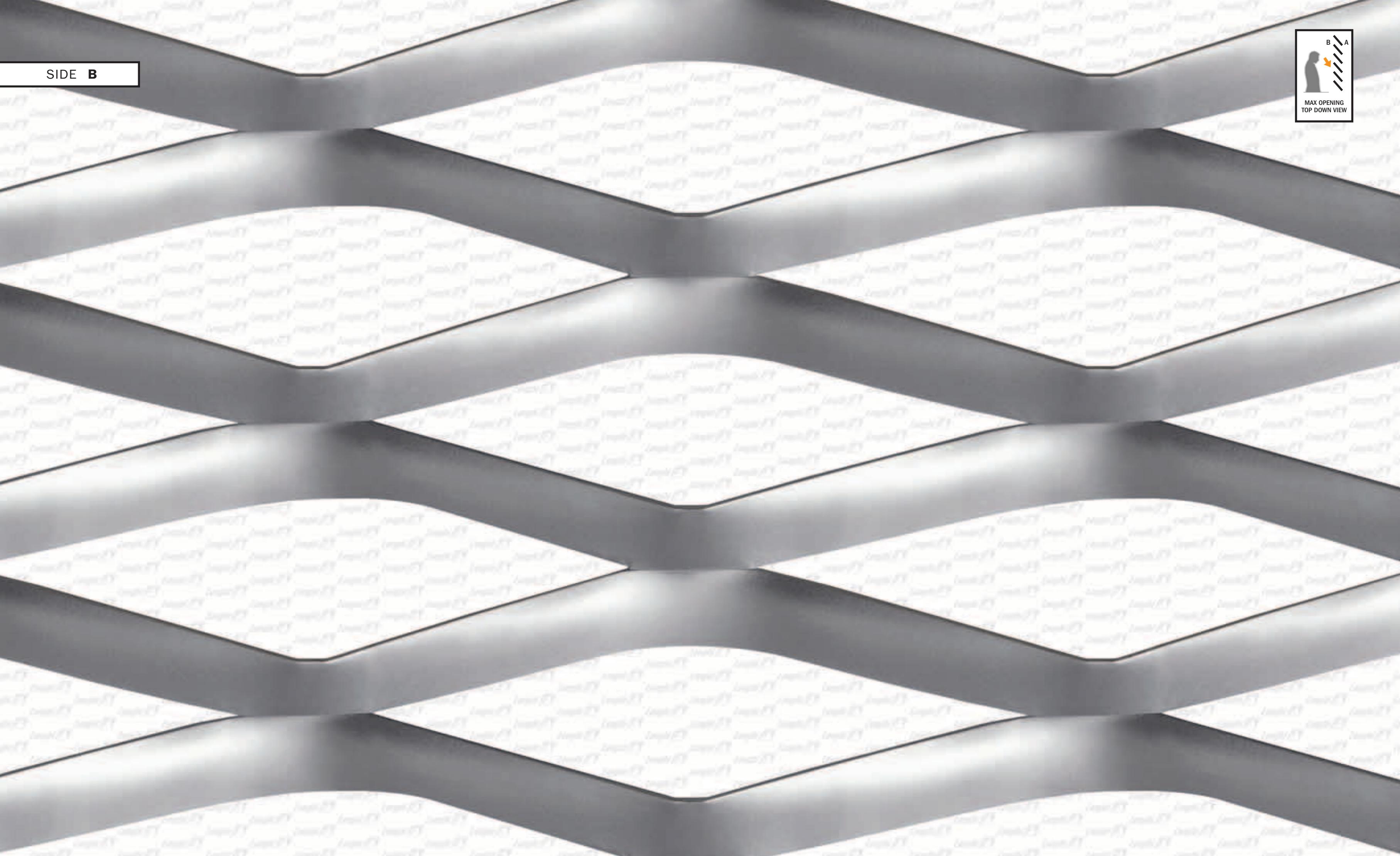
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 270 x 100 (100) - 30 x 1,5	7,50	2,50	LW 1000 x SW 2000	49 (~) ♦	52,8 (~)
R 270 x 100 (100) - 30 x 2,0	10,00	3,40	LW 1250 x SW 2500		
R 270 x 100 (100) - 30 x 3,0	15,00	5,00	LW 1500 x SW 3000		

◆ Framing profiles: see page 192

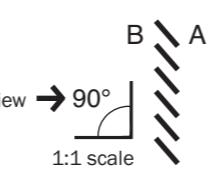
121



SIDE B

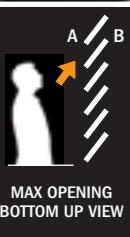
**Estesa****R 270 x 100 (100) - 30 x t**

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

Fils**pro tech**

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 270 x 100 (100) - 30 x 1,5	7,50	2,50	LW 1000 x SW 2000	49 (~) ♦	52,8 (~)
R 270 x 100 (100) - 30 x 2,0	10,00	3,40	LW 1250 x SW 2500		
R 270 x 100 (100) - 30 x 3,0	15,00	5,00	LW 1500 x SW 3000		

SIDE A

**Vela 300****E 300 x 100 (100) - 28 x t**

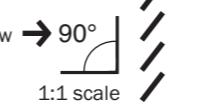
TYPE LW

SW NOMINAL

SW ACTUAL

w

t



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 300 x 100 (100) - 28 x 1,5	6,60	2,30	LW 2100 x SW 2500 Max	42 (~) ♦	54,5 (~)
E 300 x 100 (100) - 28 x 2,0	8,80	3,20			
E 300 x 100 (100) - 28 x 3,0	/	4,60			

SIDE B



Vela 300

E 300 x 100 (100) - 28 x t

TYPE

LW

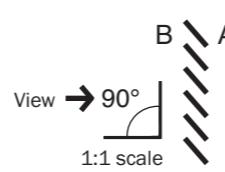
SW NOMINAL

SW ACTUAL

w

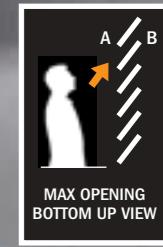
t

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 300 x 100 (100) - 28 x 1,5	6,60	2,30	LW 2100 x SW 2500 Max	42 (~) ♦	54,5 (~)
E 300 x 100 (100) - 28 x 2,0	8,80	3,20			
E 300 x 100 (100) - 28 x 3,0	/	4,60			

SIDE A

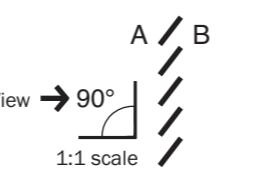


Meridiana

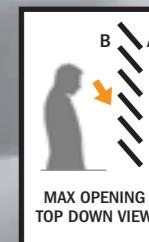
E 350 x 120 (120) - 33 x t

| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t |

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 350 x 120 (120) - 33 x 2,0	8,60	3,00	LW 1500 x SW 3000 c.a. LW 2100 x SW 2500 c.a.	52 (~) ♦	59 (~)
E 350 x 120 (120) - 33 x 3,0	12,90	4,50			



SIDE B

Fils

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Meridiana

E 350 x 120 (120) - 33 x t

TYPE | LW

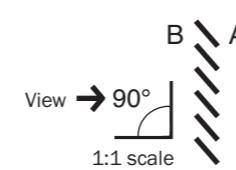
SW NOMINAL

SW ACTUAL

|_w

|_t

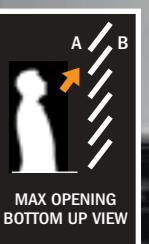
pro tech



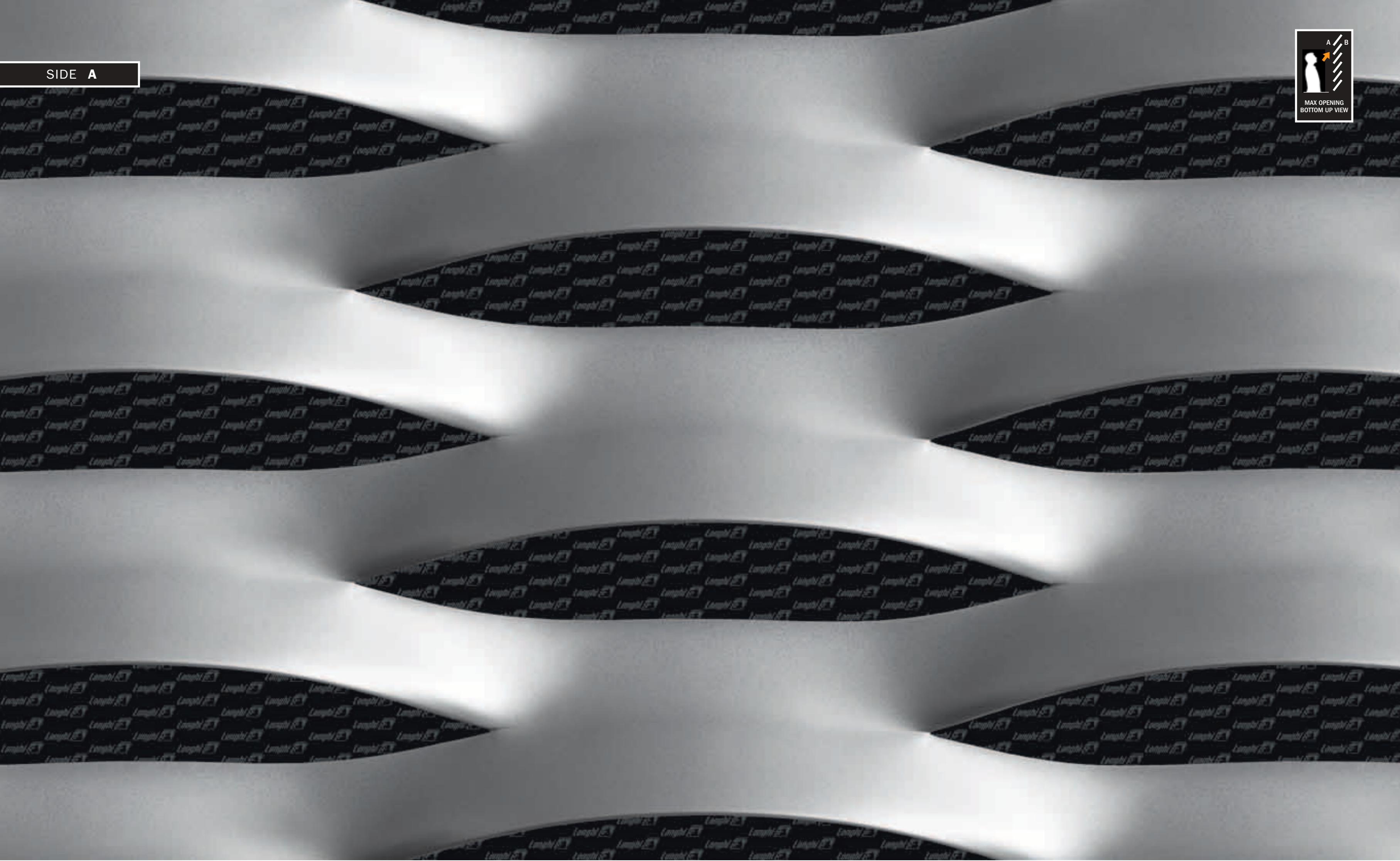
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 350 x 120 (120) - 33 x 2,0	8,60	3,00	LW 1500 x SW 3000 c.a.	52 (~) ♦	59 (~)
E 350 x 120 (120) - 33 x 3,0	12,90	4,50	LW 2100 x SW 2500 c.a.		

◆ Framing profiles: see page 192

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SIDE A

**Luna 400****T 400 x 150 (100) - 40 x t**

| TYPE | LW

| SW NOMINAL

| SW ACTUAL

| w

| t

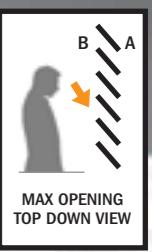
pro tech

A / B

View → 90°
1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
T 400 x 150 (100) - 40 x 2,0	12,50	4,30			
T 400 x 150 (100) - 40 x 3,0	18,70	6,50			
	LW 1250 x SW 2500			41 (~) ♦	27,5 (~)

♦ Framing profiles: see page 192



SIDE B

Fils

134

Luna 400

T 400 x 150 (100) - 40 x t

| TYPE | LW

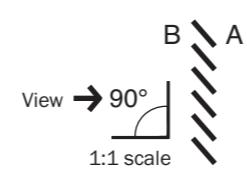
| SW NOMINAL

| SW ACTUAL

| w

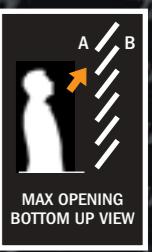
| t

pro tech



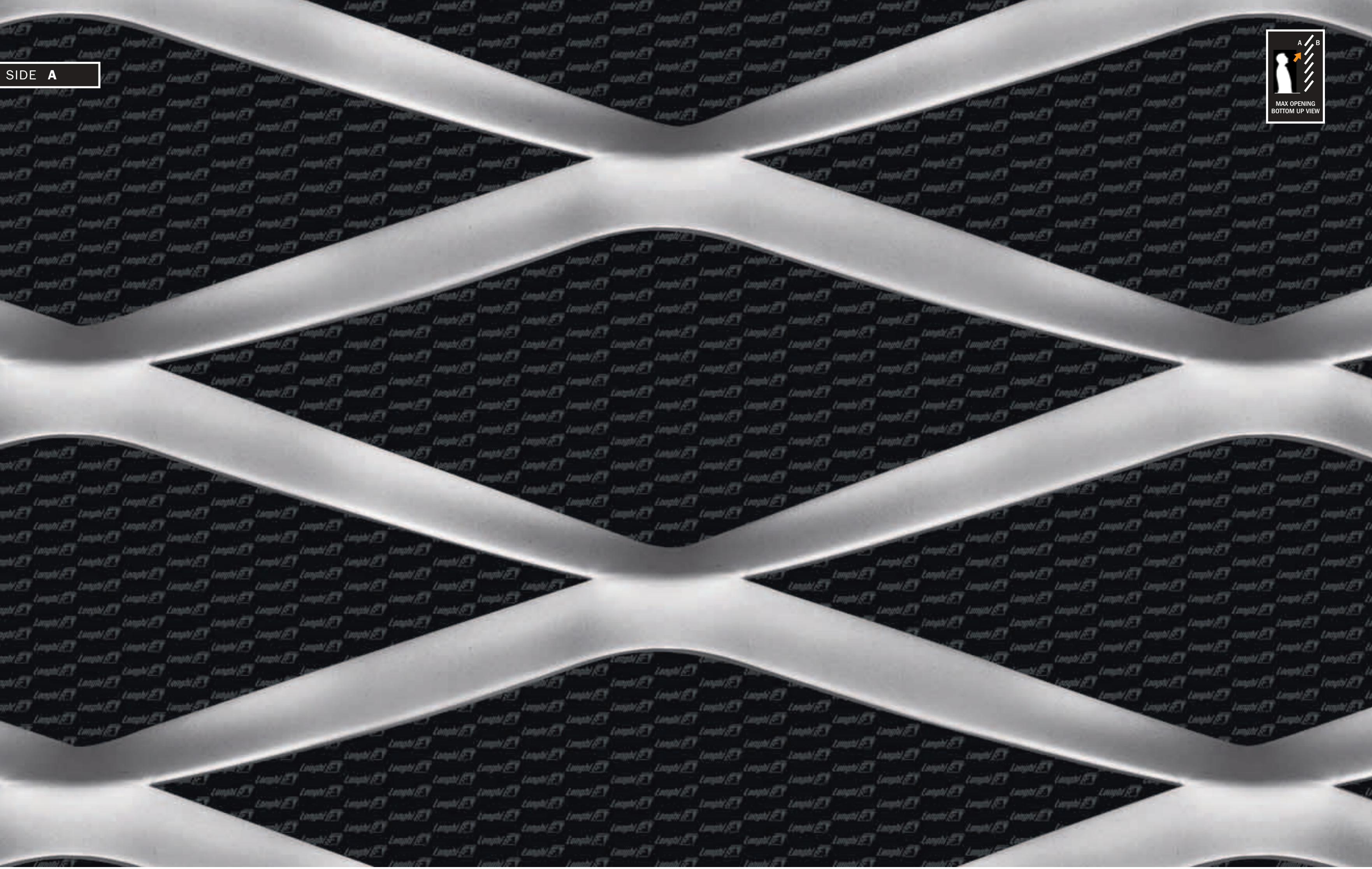
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
T 400 x 150 (100) - 40 x 2,0	12,50	4,30	LW 1250 x SW 2500	41 (~) ♦	27,5 (~)
T 400 x 150 (100) - 40 x 3,0	18,70	6,50			
				◆ Framing profiles: see page 192	

135



SIDE A

MAX OPENING
BOTTOM UP VIEW



Italy

R 400 x 140 (140) - 33 x t

| TYPE | LW

| SW NOMINAL

| SW ACTUAL

| w

| t

A / B

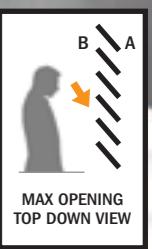
View → 90°
1:1 scale

Fils

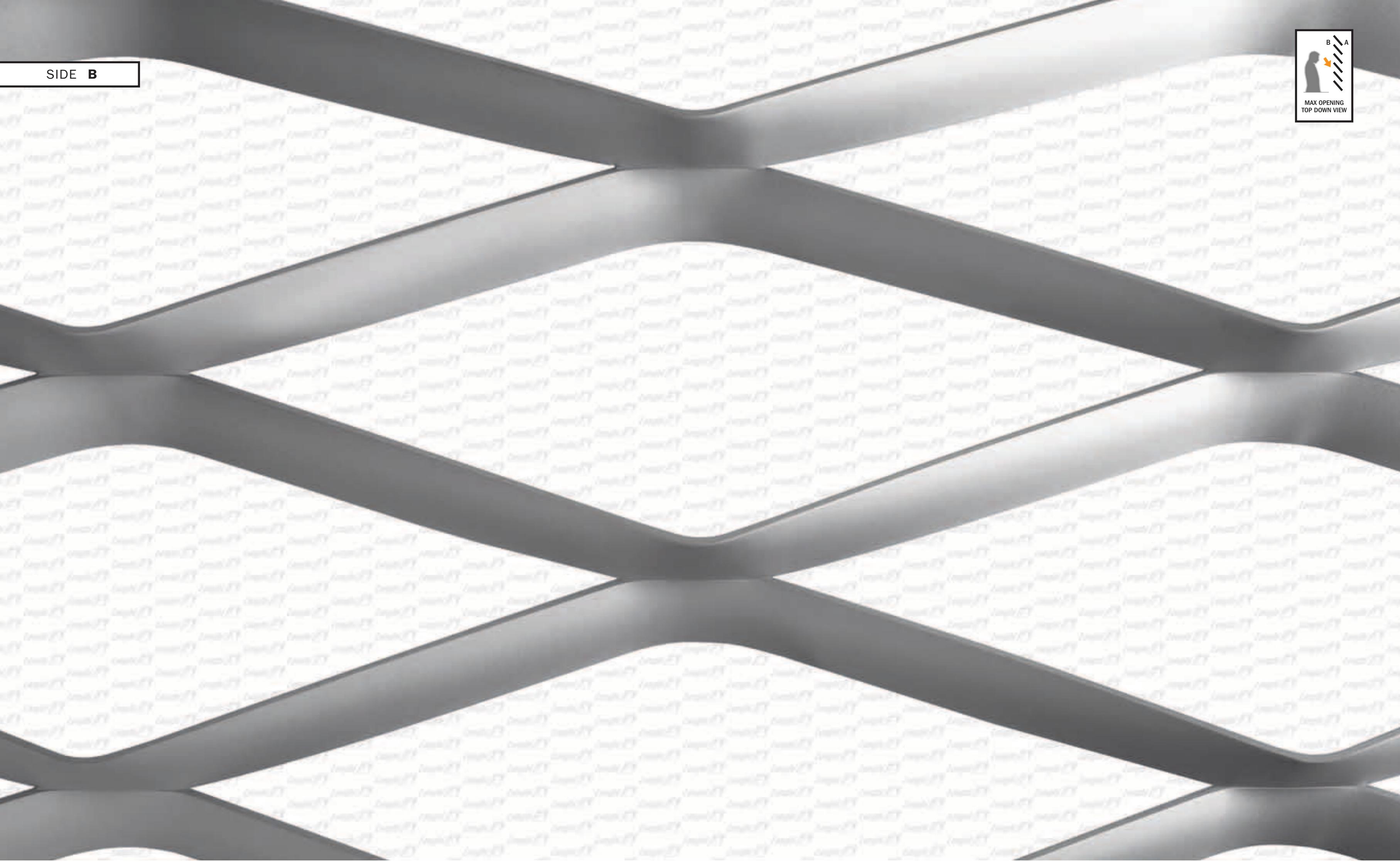
pro tech

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 400 x 140 (140) - 33 x 2,0	7,20	2,60	LW 1250 x SW 3000 c.a.	53 (~) ♦	63 (~)
R 400 x 140 (140) - 33 x 3,0	11,00	3,80	LW 2200 x SW 2500 c.a.		

◆ Framing profiles: see page 192



SIDE B

**Italy****R 400 x 140 (140) - 33 x t**

| TYPE | LW

| SW NOMINAL

| SW ACTUAL

| w | t

B A

View → 90°
1:1 scale

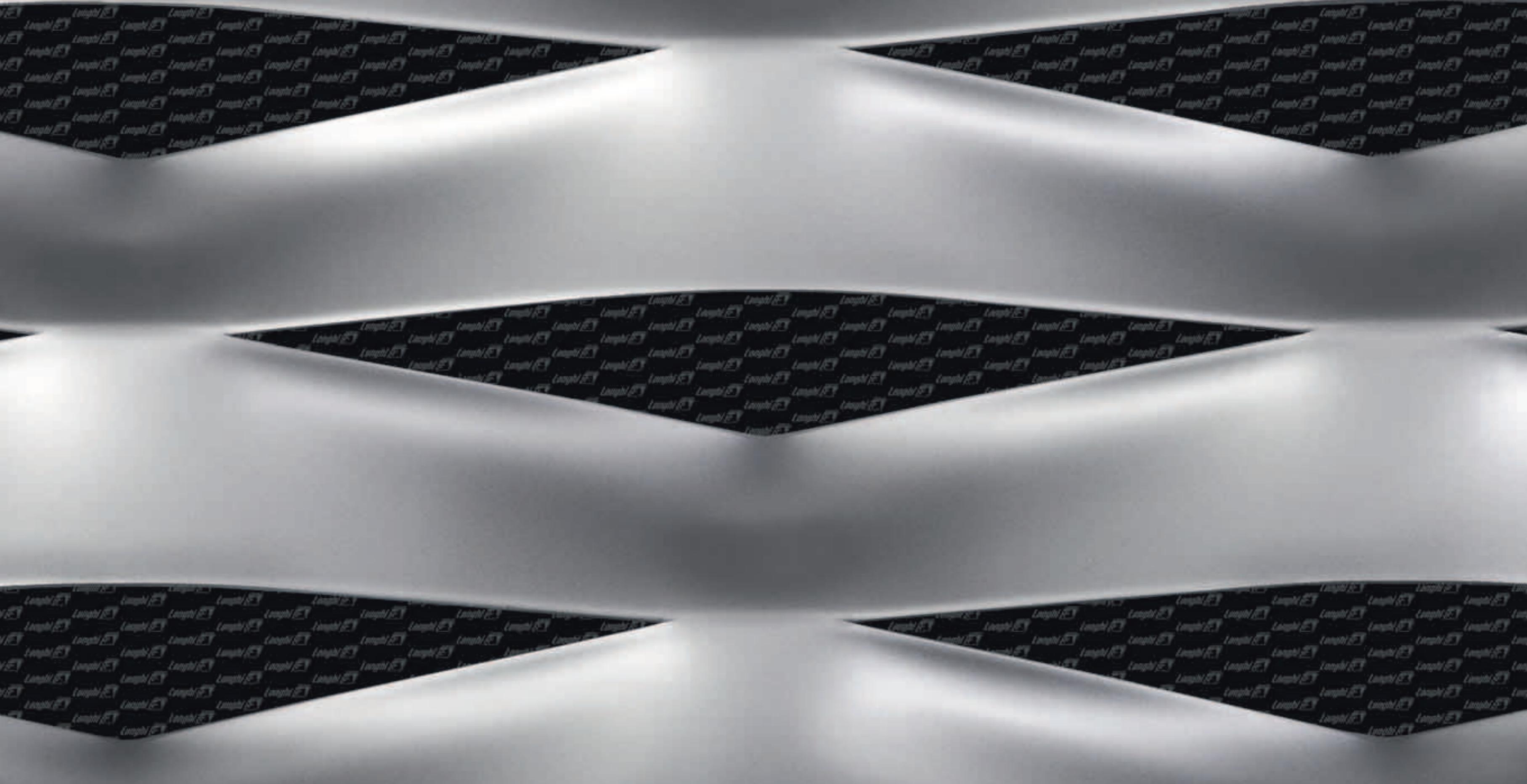
Fils**pro tech**

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 400 x 140 (140) - 33 x 2,0	7,20	2,60	LW 1250 x SW 3000 c.a.	53 (~) ♦	63 (~)
R 400 x 140 (140) - 33 x 3,0	11,00	3,80	LW 2200 x SW 2500 c.a.		

◆ Framing profiles: see page 192



SIDE A

**EF 400****R 400 x 140 (180) - 80 x t**

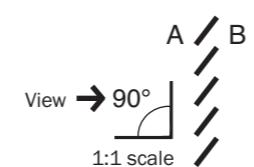
| TYPE | LW

| SW NOMINAL

| SW ACTUAL

| w

| t

Fils**pro tech**

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 400 x 140 (180) - 80 x 1,5	10,50	/	LW 1250 x SW 2500	72 (~) ♦	22 (~)
R 400 x 140 (180) - 80 x 2,0	14,00	4,80			
R 400 x 140 (180) - 80 x 3,0	/	7,20			



SIDE B

 Fils

142

EF 400

R 400 x 140 (180) - 80 x t

| TYPE | LW

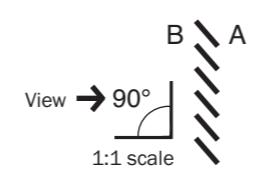
| SW NOMINAL |

| SW ACTUAL |

| w |

| t |

pro tech

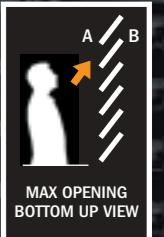


Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 400 x 140 (180) - 80 x 1,5	10,50	/	LW 1250 x SW 2500	72 (~) ♦	22 (~)
R 400 x 140 (180) - 80 x 2,0	14,00	4,80			
R 400 x 140 (180) - 80 x 3,0	/	7,20			

◆ Framing profiles: see page 192

143

SIDE A



EF 400/1

R 400 x 140 (230) - 100 x t

| TYPE | LW

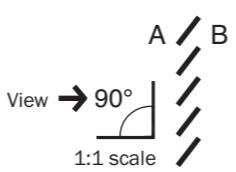
| SW NOMINAL |

| SW ACTUAL |

| w |

| t |

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 400 x 140 (230) - 100 x 1,5	10,30	/	LW 1250 x SW 2500	76 (~) ♦	17 (~)
R 400 x 140 (230) - 100 x 2,0	13,70	4,70			
R 400 x 140 (230) - 100 x 3,0	/	7,10			

SIDE B

**EF 400/1****Fils****R 400 x 140 (230) - 100 x t**

TYPE

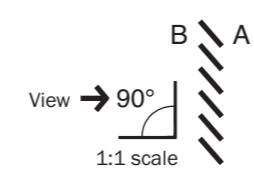
LW

SW NOMINAL

SW ACTUAL

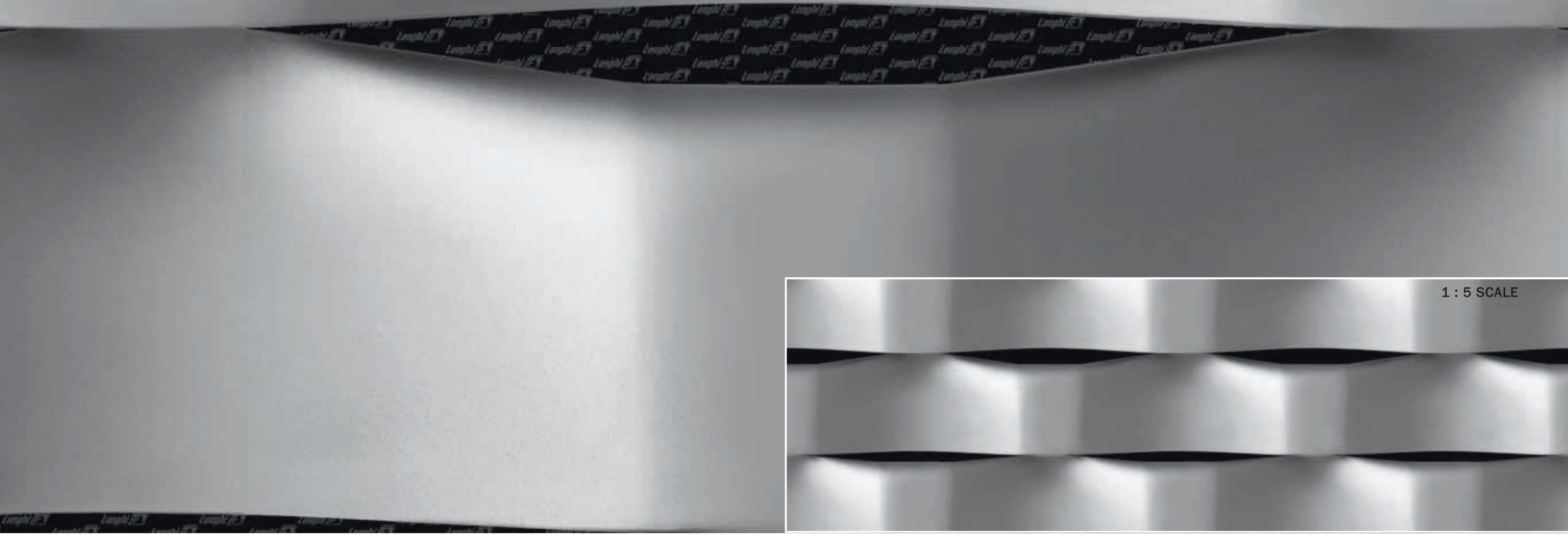
w

t



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 400 x 140 (230) - 100 x 1,5	10,30	/	LW 1250 x SW 2500	76 (~) ♦	17 (~)
R 400 x 140 (230) - 100 x 2,0	13,70	4,70			
R 400 x 140 (230) - 100 x 3,0	/	7,10			

SIDE A



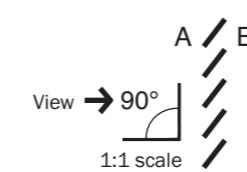
1 : 5 SCALE

Opera 400

E 400 x 140 (305) - 150 x t
| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t



pro tech



Type - LW x SW (SW actual) - w x t (mm)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 400 x 140 (305) - 150 x 2,0	5,40	LW 1250 x SW 2500	60 (~) ♦	5,5 (~)
E 400 x 140 (305) - 150 x 3,0	8,00			

SIDE B

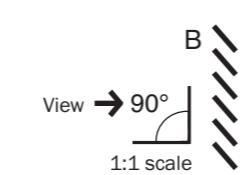


Opera 400

 Fils

E 400 x 140 (305) - 150 x t
| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

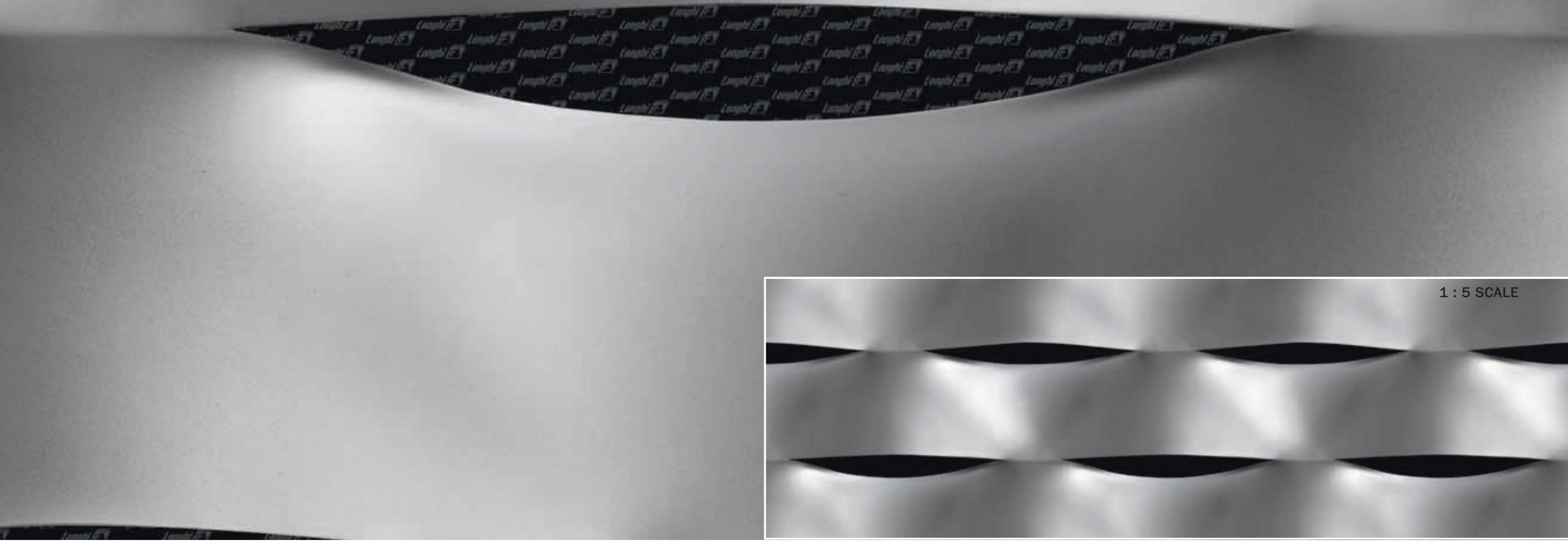
pro tech



Type - LW x SW (SW actual) - w x t (mm)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 400 x 140 (305) - 150 x 2,0	5,40	LW 1250 x SW 2500	60 (~) ♦	5,5 (~)
E 400 x 140 (305) - 150 x 3,0	8,00			

◆ Framing profiles: see page 192

SIDE A

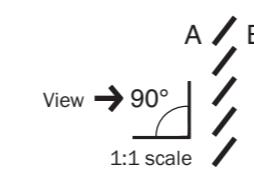


Ellisse 400

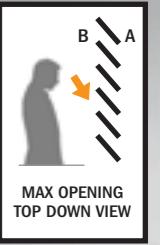
T 400 x 140 (320) - 150 x t
| TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

 Fils

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
T 400 x 140 (320) - 150 x 2,0	5,10	LW 1250 x SW 2500	75 (~) ♦	6,5 (~)
T 400 x 140 (320) - 150 x 3,0	7,60			



SIDE B

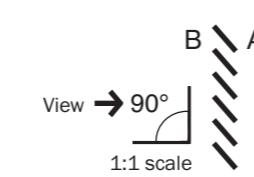
 Fils

154

Ellisse 400

T 400 x 140 (320) - 150 x t
 TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

pro tech



Type - LW x SW (SW actual) - w x t (mm)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
T 400 x 140 (320) - 150 x 2,0	5,10	LW 1250 x SW 2500	75 (~) ♦	6,5 (~)
T 400 x 140 (320) - 150 x 3,0	7,60			

◆ Framing profiles: see page 192

155



1 : 5 SCALE

SIDE A



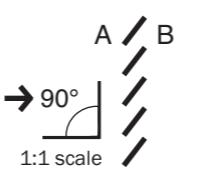
MAX OPENING
BOTTOM UP VIEW

RB 45

R 28 x 14 - 5 x t

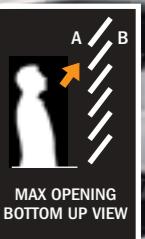
| TYPE | LW | SW | w | t

stiltech



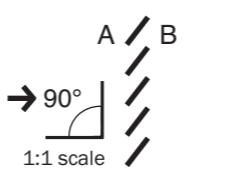
Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 28 x 14 - 5 x 1,5	8,40	3,00	LW 1000 x SW 2000	7 (-) ♦	33 (-)
R 28 x 14 - 5 x 2,0	11,30	3,90	LW 1250 x SW 2500		
			LW 1500 x SW 3000		

SIDE A

**RB 65****R 62 x 23 - 8 x t**

| TYPE | LW | SW | w | t

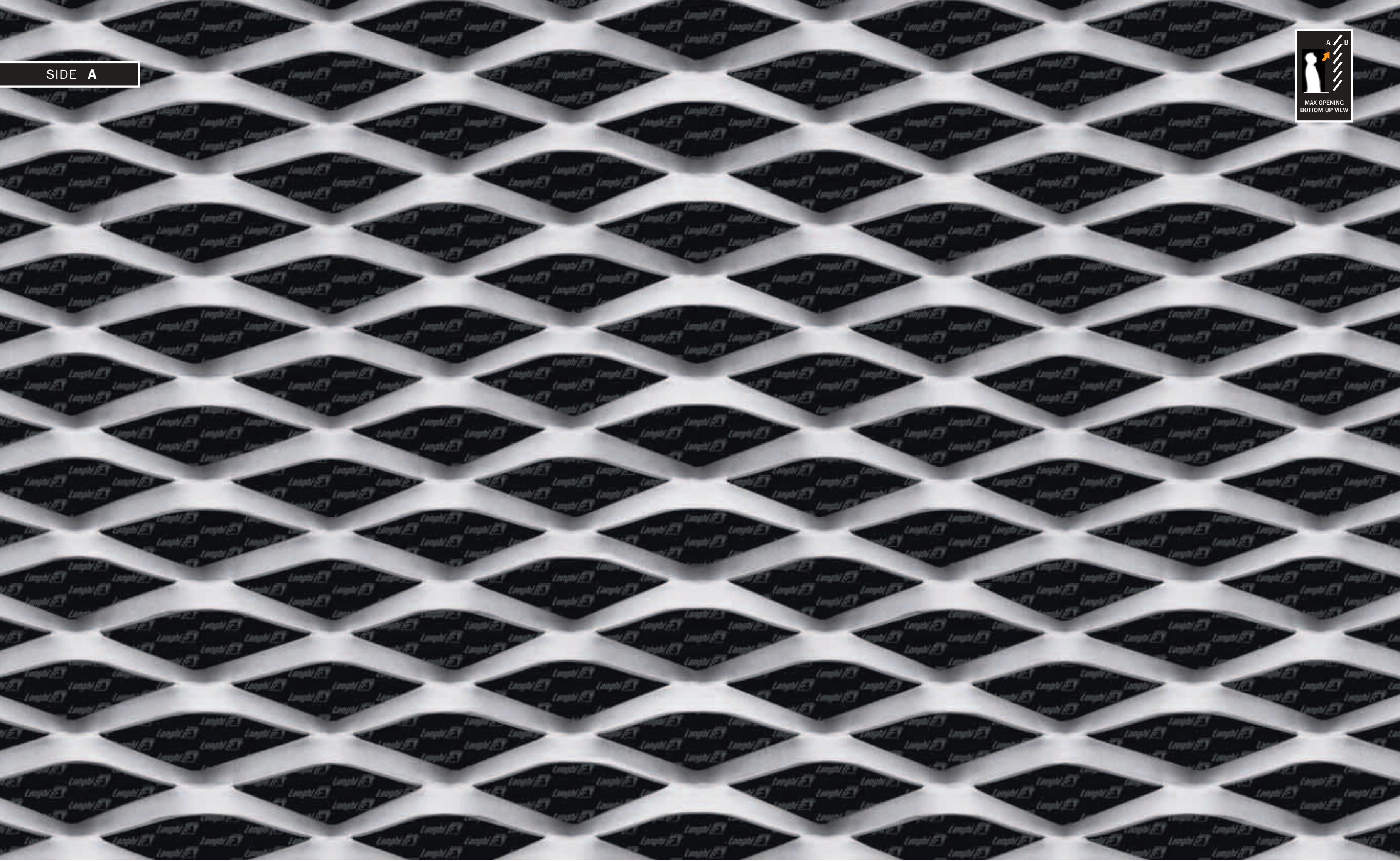
stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 62 x 23 - 8 x 0,6	3,35	1,15	LW 1000 x SW 2000	10 (~) ♦	36 (~)
R 62 x 23 - 8 x 1,0	5,60	1,90	LW 1250 x SW 2500		
R 62 x 23 - 8 x 1,5	8,20	2,80	LW 1500 x SW 3000		



SIDE A

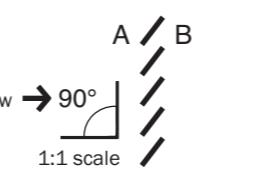


RB 75

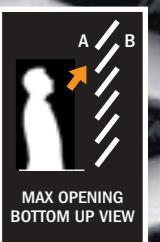
R 85 x 35 - 11 x t
 | TYPE | LW | SW | w | t

Italsim

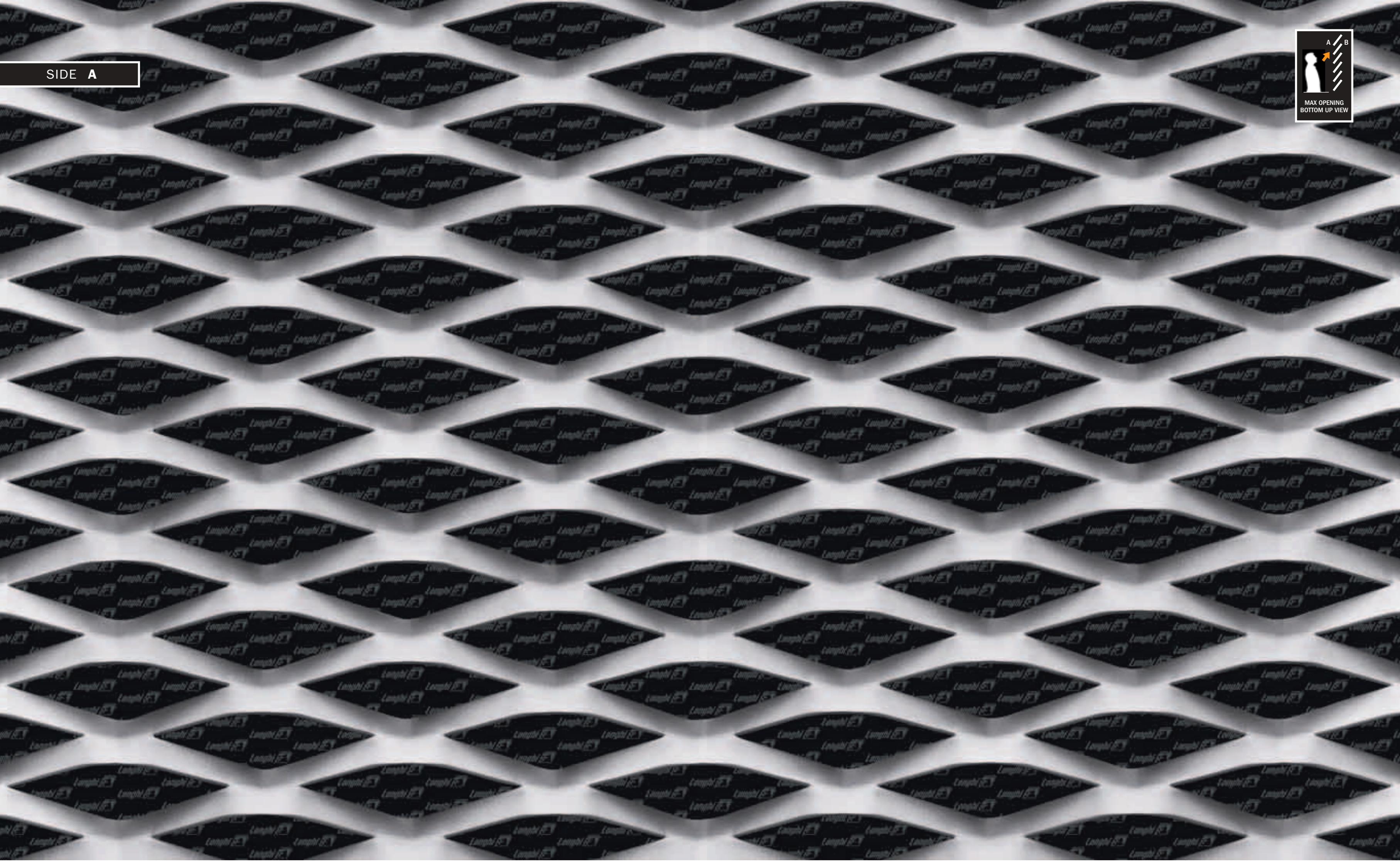
stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 85 x 35 - 11 x 1,5	7,40	2,55	LW 1000 x SW 2000	14 (~) ♦	48 (~)
R 85 x 35 - 11 x 2,0	9,87	3,40	LW 1250 x SW 2500 LW 1500 x SW 3000		



SIDE A

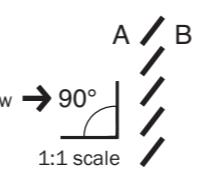


RB 85

R 100 x 35 - 11 x t

| TYPE | LW | SW | w | t

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 100 x 35 - 11 x 1,5	7,55	2,70	LW 1000 x SW 2000 on request LW 1250 x SW 2500 on request LW 1500 x SW 3000 on request	15 (~) ♦	45 (~)
R 100 x 35 - 11 x 2,0	10,10	3,50			

SIDE A



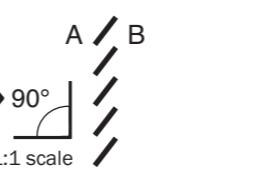
TAU 40

T 20 - 3,25 x t - Ø10

| TYPE | LW | w | t | inscribed diameter hole

 Italsim

stiltech



Type - LW - w x t - Ø (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
T 20 - 3,25 x 1,5 - Ø10	5,40	1,95	LW 1000 x SW 2000	5 (~) ♦	57 (~)
T 20 - 3,25 x 2,0 - Ø10	7,10	2,50	LW 1250 x SW 2500		
			LW 1500 x SW 3000		

◆ Framing profiles: see page 193

SIDE A



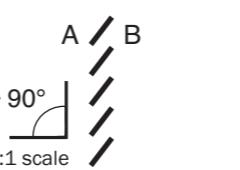
TAU 60

T 30 - 6 x t - Ø15

| TYPE | LW | w | t | inscribed diameter hole

 **Italsim**

stiltech



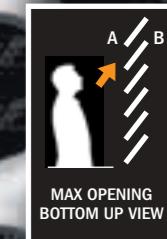
Type - LW - w x t - Ø (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)
T 30 - 6 x 2,0 - Ø15	8,40	2,80	MS/t 2 LW 1000 x SW 2000 AL/t 2/3 LW 1000 x SW 2000
T 30 - 6 x 3,0 - Ø15	11,50	3,65	MS/t 2 LW 1250 x SW 2500 AL/t 2/3 LW 1250 x SW 2500
			MS/t 3 LW 1000 x SW 2000 AL/t 2/3 LW 1500 x SW 3000

Sheet thickness (mm) measured at the centre	% front open area
6 (~) ♦	51 (~)

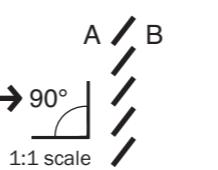
MS = Mild Steel - AL = Aluminium

♦ Framing profiles: see page 193

SIDE A

**TAU 70****T 40 - 6,5 x t - Ø20**

| TYPE | LW | w | t | inscribed diameter hole

Italsim**stiltech**

Type - LW - w x t - Ø (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
T 40 - 6,5 x 1,5 - Ø20	6,20	/	MS/t 1,5/2 LW 1000 x SW 2000 MS/t 1,5/2 LW 1250 x SW 2500	AL/t 2/3 LW 1000 x SW 2000 AL/t 2/3 LW 1250 x SW 2500 AL/t 2/3 LW 1500 x SW 3000	10 (~) ♦
T 40 - 6,5 x 2,0 - Ø20	8,30	2,55			
T 40 - 6,5 x 3,0 - Ø20	/	3,80			

MS = Mild Steel - AL = Aluminium

♦ Framing profiles: see page 193

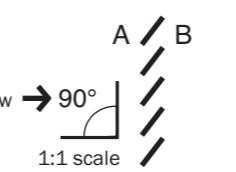
SIDE A



KD 400

Q 16 x 11 - 3 x t
| TYPE | LW | SW | w | t

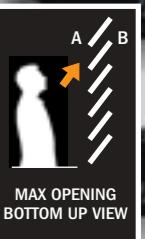
stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
Q 16 x 11 - 3 x 1,5	6,40	2,25	LW 1000 x SW 2000	4 (~) ♦	46 (~)
Q 16 x 11 - 3 x 2,0	8,60	3,00	LW 1250 x SW 2500 LW 1500 x SW 3000		

◆ Framing profiles: see page 193

SIDE A

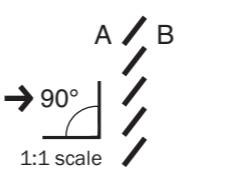


Exa 05

E 50 x 23 - 8 x t

| TYPE | LW | SW | w | t

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)
E 50 x 23 - 8 x 1,5	8,20	2,85	LW 1000 x SW 2000 on request
E 50 x 23 - 8 x 2,0	10,95	3,75	LW 1250 x SW 2500 on request

Sheet thickness (mm) measured at the centre	% front open area
10 (~) ♦	43 (~)

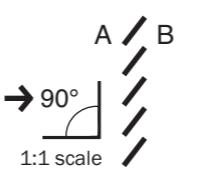
◆ Framing profiles: see page 193

SIDE A

**Exa 12****E 80 x 30 - 9 x t**

| TYPE | LW | SW | w | t

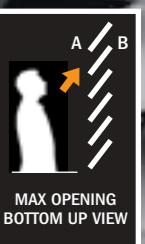
stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 80 x 30 - 9 x 1,5	7,10	2,50	LW 1000 x SW 2000	12 (~) ♦	54 (~)
E 80 x 30 - 9 x 2,0	9,50	3,30	LW 1250 x SW 2500		
			LW 1500 x SW 3000		

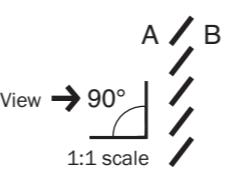
◆ Framing profiles: see page 193

SIDE A

**Exa 16****E 80 x 30 - 13 x t**

| TYPE | LW | SW | w | t

stiltech



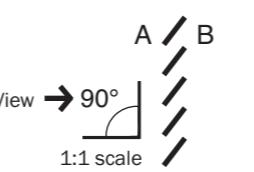
Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 80 x 30 - 13 x 1,5	10,20	3,60	LW 1000 x SW 2000	11 (~) ♦	15 (~)
E 80 x 30 - 13 x 2,0	13,70	4,70	LW 1250 x SW 2500		
			LW 1500 x SW 3000		

◆ Framing profiles: see page 193

SIDE A

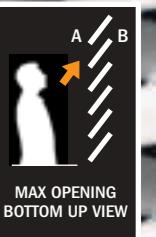
**Deco 91**
E 45 x 8 - 3,5 x t
 | TYPE | LW | SW | w | t

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
E 45 x 8 - 3,5 x 1,0	6,80	2,40	LW 1000 x SW 2000	4 (~) ♦	23 (~)
E 45 x 8 - 3,5 x 1,5	10,00	3,30	LW 1250 x SW 2500 LW 1500 x SW 3000		

SIDE A



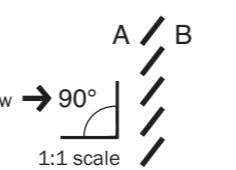
Terrace

Italfim

R 43 x 18 - 8 x t

| TYPE | LW | SW | w | t

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 43 x 18 - 8 x 1,5	10,50	3,60	MS/t 1,5 LW 1000 x SW 2000 MS/t 1,5 LW 1250 x SW 2500 MS/t 1,5 LW 1500 x SW 3000 MS/t 2 LW 1000 x SW 2000	LW 1250 x SW 2500 AL/t 1,5/2 LW 1000 x SW 2000 AL/t 1,5/2 LW 1250 x SW 2500 AL/t 1,5/2 LW 1500 x SW 3000	
R 43 x 18 - 8 x 2,0	14,00	4,60			

MS = Mild Steel - AL = Aluminium

◆ Framing profiles: see page 193

SIDE A



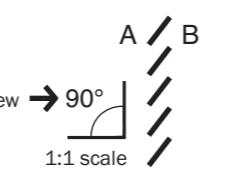
Village

Italsim

R 43 x 23 - 10 x t

| TYPE | LW | SW | w | t

stiltech

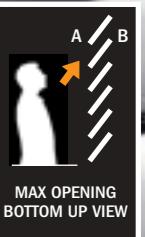


Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 43 x 23 - 10 x 1,5	10,30	3,50	MS/t 1,5 LW 1000 x SW 2000 MS/t 1,5 LW 1250 x SW 2500 MS/t 1,5 LW 1500 x SW 3000 MS/t 2 LW 1000 x SW 2000	8 (~) ♦	15 (~)
R 43 x 23 - 10 x 2,0	13,70	4,70	AL/t 1,5/2 LW 1000 x SW 2000 AL/t 1,5/2 LW 1250 x SW 2500 AL/t 1,5/2 LW 1500 x SW 3000		

MS = Mild Steel - AL = Aluminium

◆ Framing profiles: see page 193

SIDE A



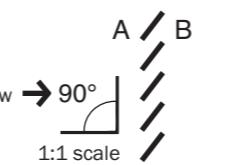
MAX OPENING
BOTTOM UP VIEW

Office

R 62 x 22 - 10 x t

| TYPE | LW | SW | w | t

stiltech



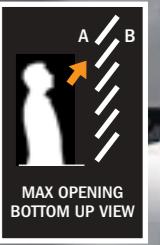
1:1 scale

Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)
R 62 x 22 - 10 x 1,5	10,50	3,60	MS/t 1,5/2 LW 1000 x SW 2000 AL/t 1,5/2 LW 1000 x SW 2000
R 62 x 22 - 10 x 2,0	14,10	4,90	MS/t 1,5/2 LW 1250 x SW 2500 AL/t 1,5/2 LW 1250 x SW 2500 AL/t 1,5/2 LW 1500 x SW 3000

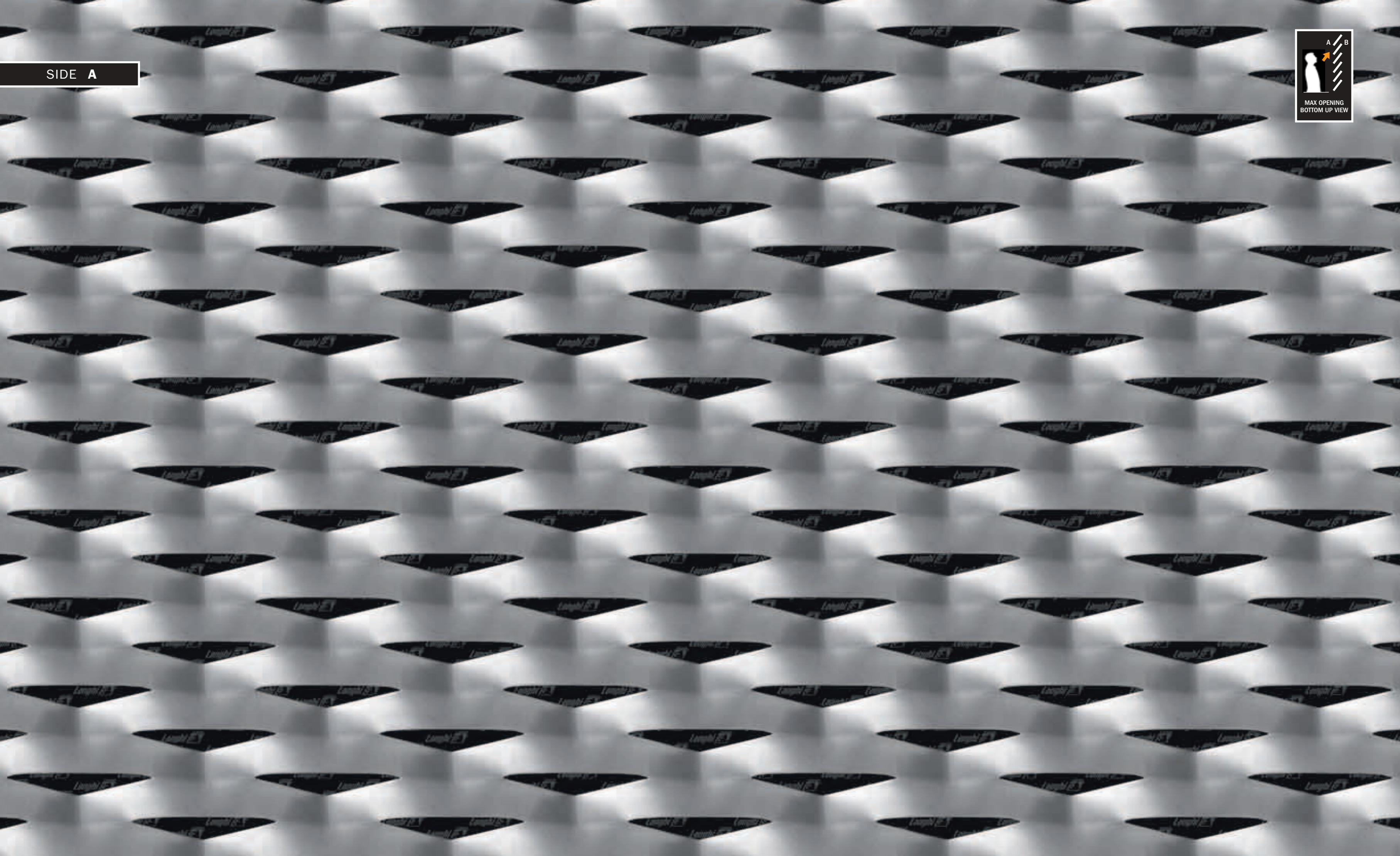
Sheet thickness (mm) measured at the centre	% front open area
9 (~) ♦	12 (~)

MS = Mild Steel - AL = Aluminium

♦ Framing profiles: see page 193



SIDE A

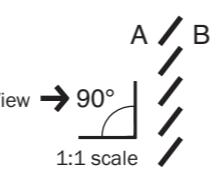


Palace

R 85 x 30 - 13 x t

| TYPE | LW | SW | w | t

stiltech

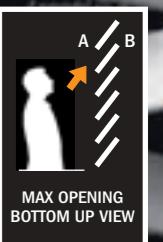


Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)
R 85 x 30 - 13 x 1,5	10,50	3,60	MS/t 1,5 LW 1000 x LW 2000 MS/t 2 LW 1250 x LW 2500 MS/t 1,5 LW 1250 x LW 2500 AL/t 1,5/2 LW 1000 x LW 2000
R 85 x 30 - 13 x 2,0	14,10	4,80	MS/t 1,5 LW 1500 x LW 3000 AL/t 1,5/2 LW 1250 x LW 2500 MS/t 2 LW 1000 x LW 2000 AL/t 1,5/2 LW 1500 x LW 3000

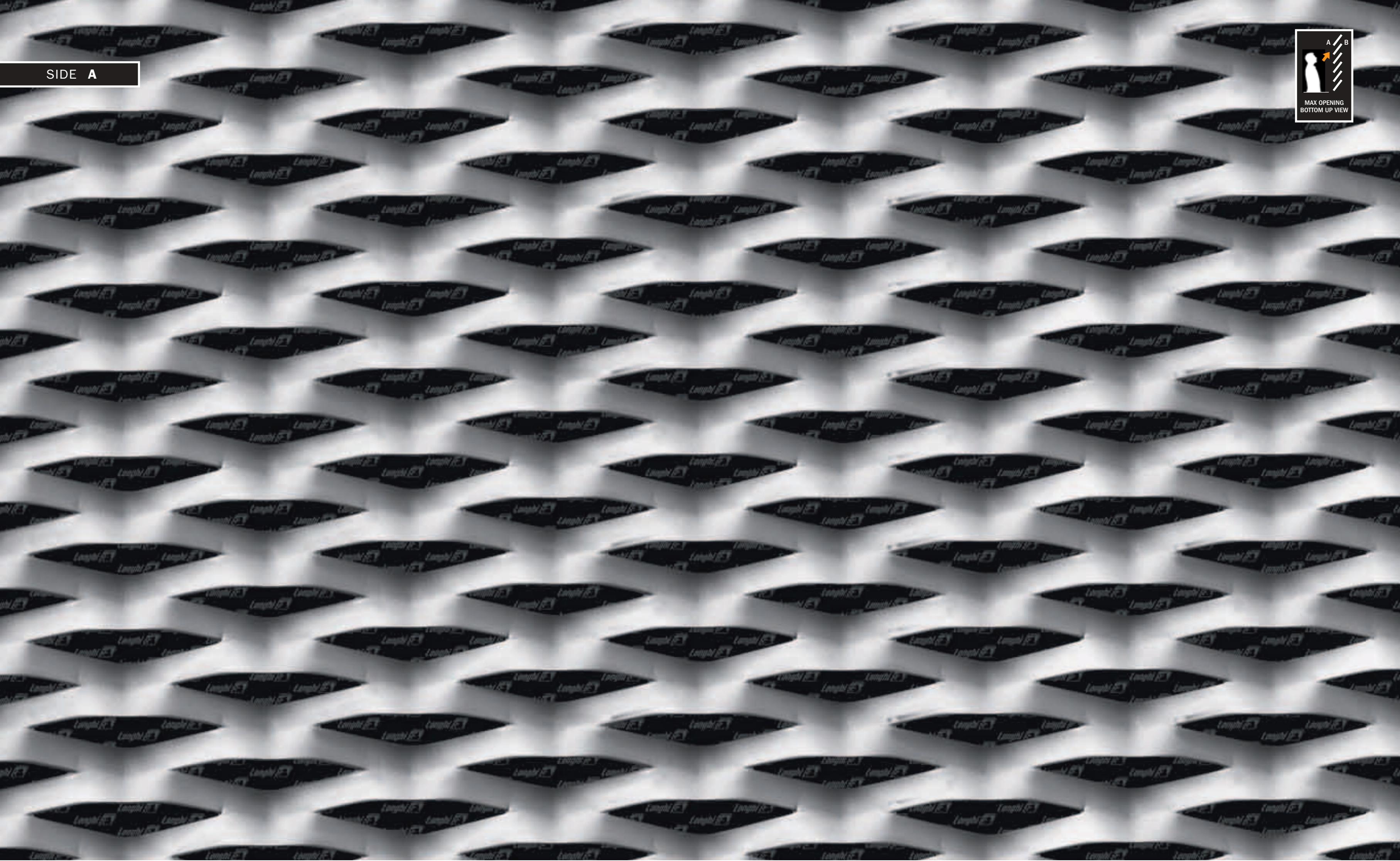
Sheet thickness (mm) measured at the centre	% front open area
11 (~) ♦	18 (~)

MS = Mild Steel - AL = Aluminium

♦ Framing profiles: see page 193



SIDE A

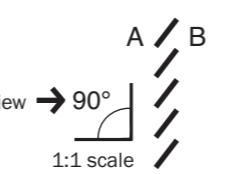


Country

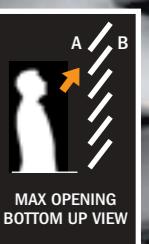
R 100 x 30 - 11 x t

| TYPE | LW | SW | w | t

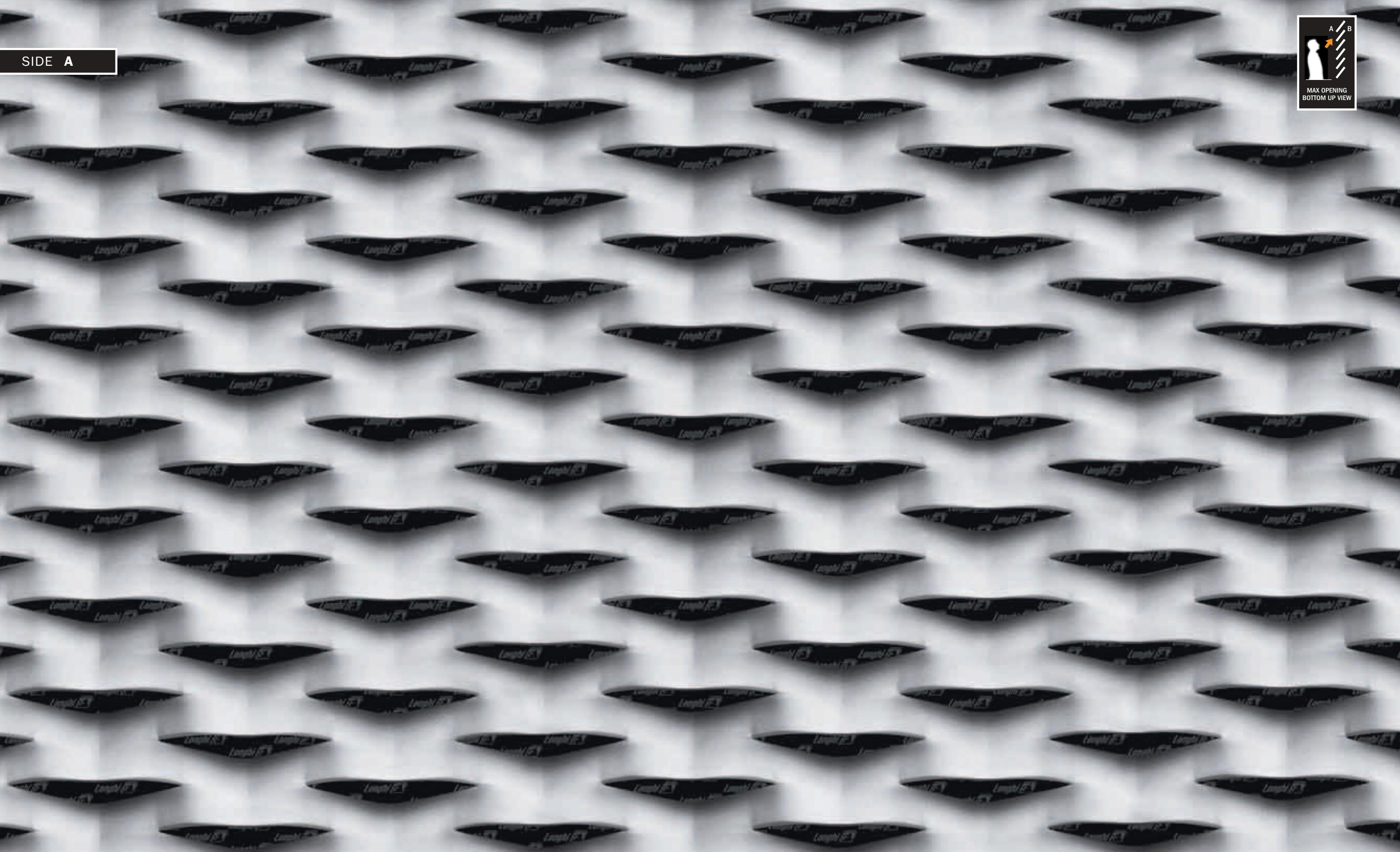
stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m ²)	Aluminium (kg/m ²)	Available sheet size (mm)	Sheet thickness (mm) measured at the centre	% front open area
R 100 x 30 - 11 x 1,5	8,80	3,00	LW 1000 x SW 2000	14 (~) ♦	30 (~)
R 100 x 30 - 11 x 2,0	11,75	4,00	LW 1250 x SW 2500		
			LW 1500 x SW 3000		



SIDE A

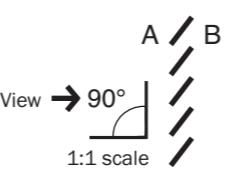


Urban

R 100 x 30 - 13 x t

| TYPE | LW | SW | w | t

stiltech



Type - LW x SW - w x t (mm)

R 100 x 30 - 13 x 1,5
R 100 x 30 - 13 x 2,0

Mild steel (kg/m²)

10,40
13,40

Aluminium (kg/m²)

3,55
4,70

Available sheet size (mm)

LW 1000 x SW 2000
LW 1250 x SW 2500
LW 1500 x SW 3000

Sheet thickness (mm)
measured at the centre

13 (~) ♦
17 (~)

% front open area

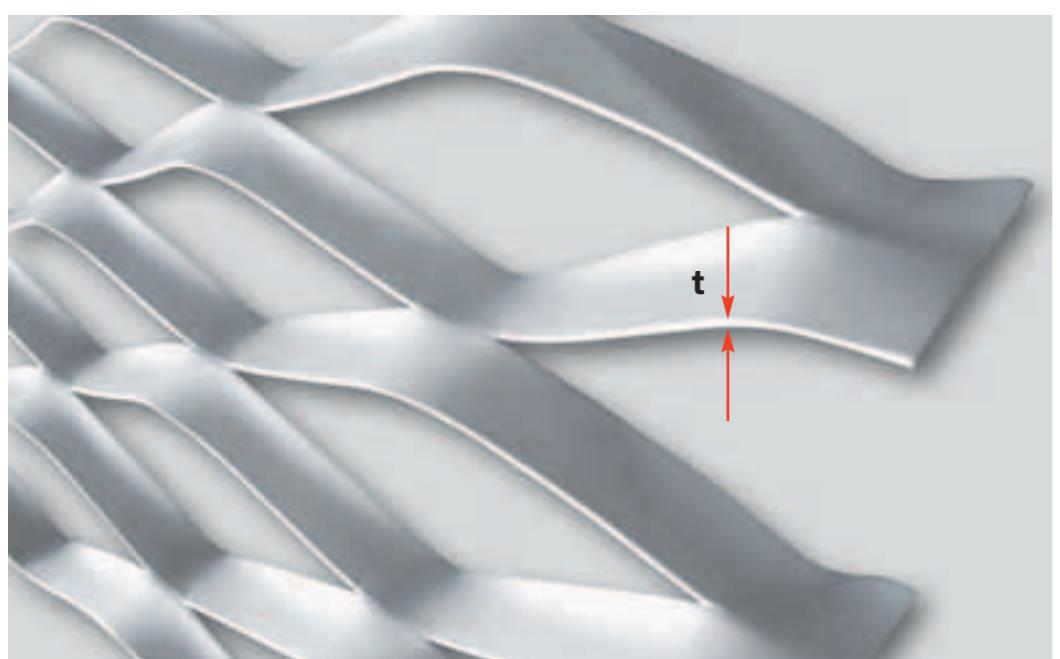
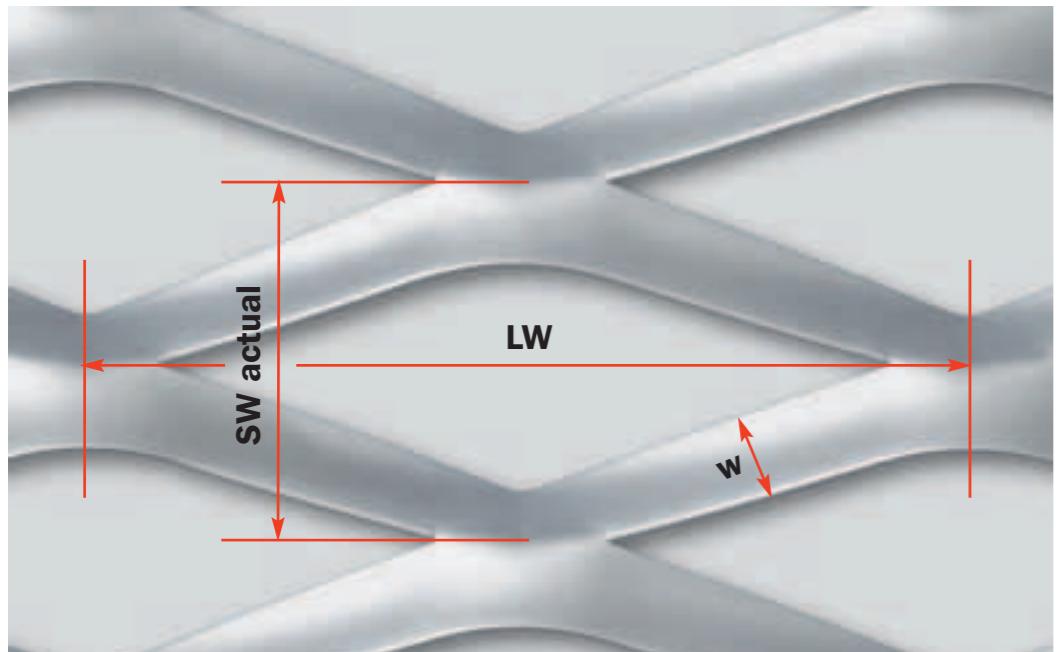
17 (~)
17 (~)

LEGENDA

 **Fils**

 **Italfim**

PROTECH MESH SPECIFICATION

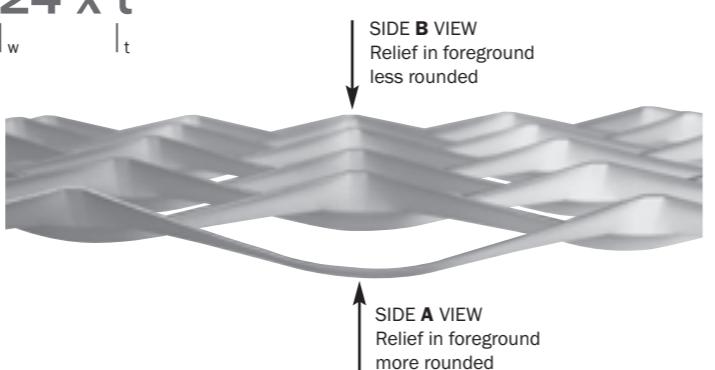


LEGENDA

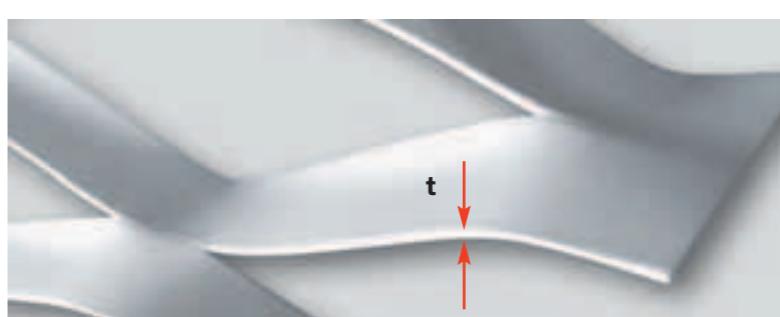
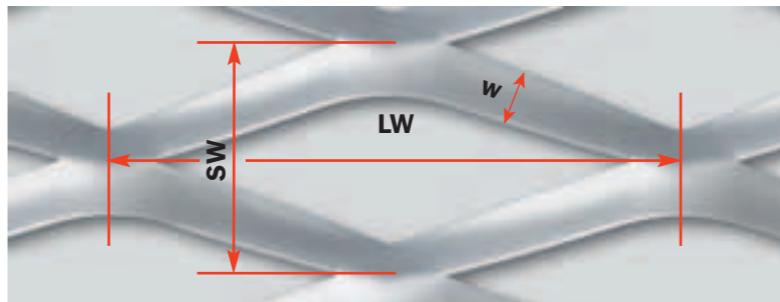
- LW** Long way pitch
- SW** Short way pitch
- SW** Short way pitch **actual**
- w** Strand Width
- t** Thickness

EXAMPLE OF ID CODE FOR MESH COLISEUM DATA IN MM

R 200 x 75 (80) - 24 x t
 $|_{\text{TYPE}} |_{\text{LW}} |_{\text{SW NOMINAL}} |_{\text{SW ACTUAL}} |_{\text{w}} |_{\text{t}}$



STILTECH MESH SPECIFICATION



SPECIFYING DIAMOND MESHES

- LW** Long way pitch
- SW** Short way pitch
- w** Strand Width
- t** Thickness

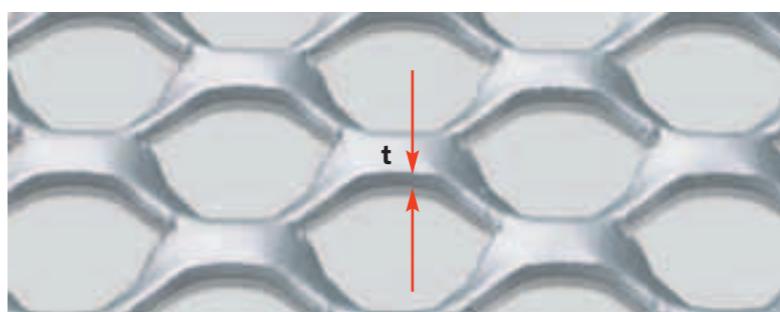
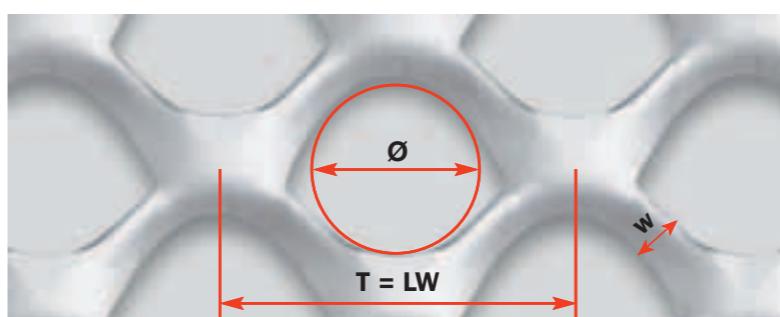
EXAMPLE OF ID CODE FOR MESH RB 45 DATA IN MM

R 28 x 14 - 5 x t
 $|_{\text{TYPE}} |_{\text{LW}} |_{\text{sw}} |_{\text{w}} |_{\text{t}}$



SPECIFYING ROUND HOLE OR "T" MESHES

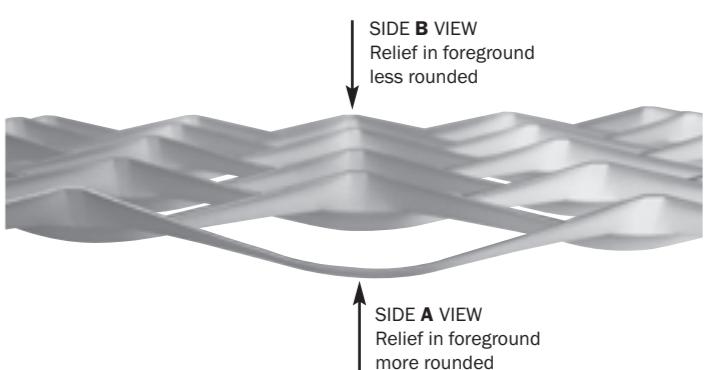
- T** = LW Long way pitch
- w** Strand Width
- t** Thickness
- Ø** Inscribed circle diameter (~)
- T** = LW These meshes are **not flattened**



EXAMPLE OF ID CODE FOR MESH TAU 40 DATA IN MM

T 20 - 3,25 x t - Ø10
 $|_{\text{TYPE}} |_{\text{LW}} |_{\text{w}} |_{\text{t}} |_{\text{Ø10}}$ Inscribed circle diameter

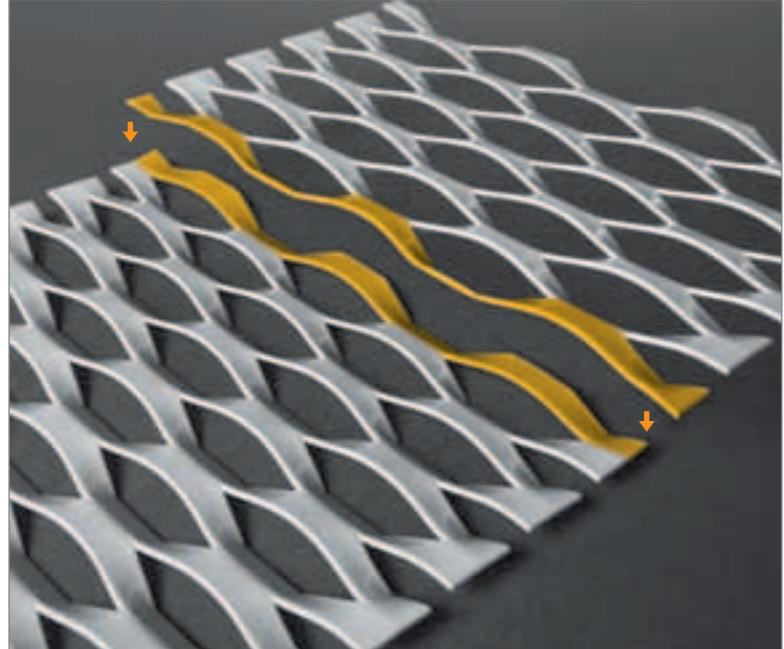
IMPORTANT NOTE
 In order to dimension correctly the profile, it is recommendable to measure the sheet thickness along the perimeter. The final sheet thickness at the perimeter may differ from the nominal value indicated on the data sheet.



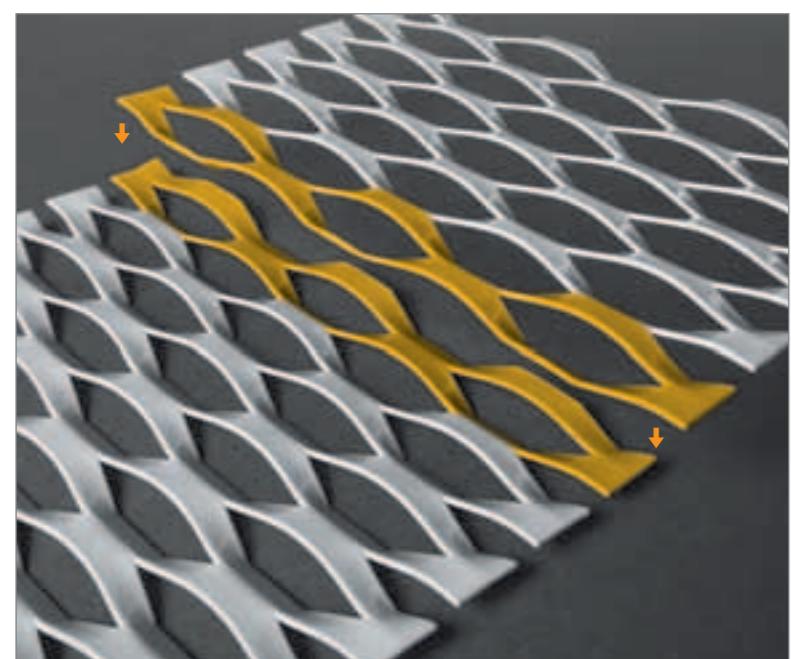
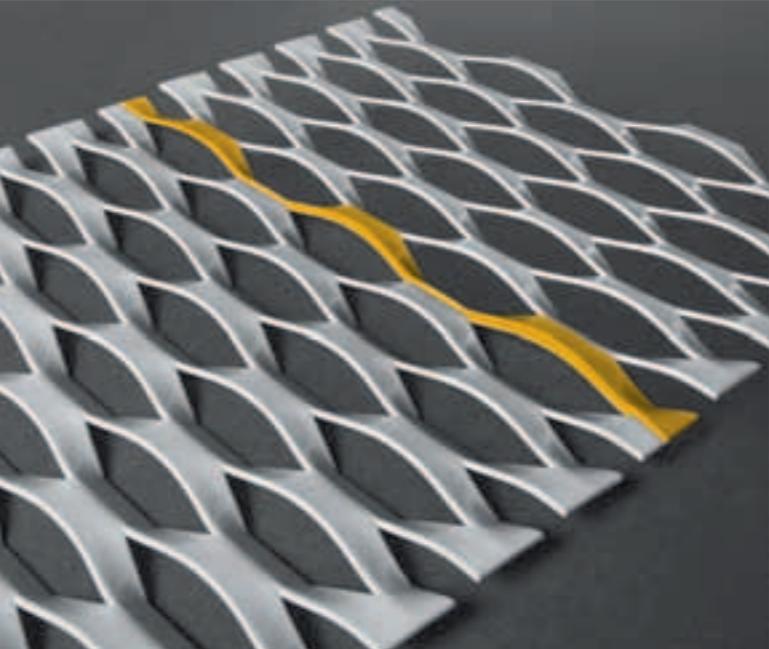
MODULARITY

 **Fils**  **Halsim**

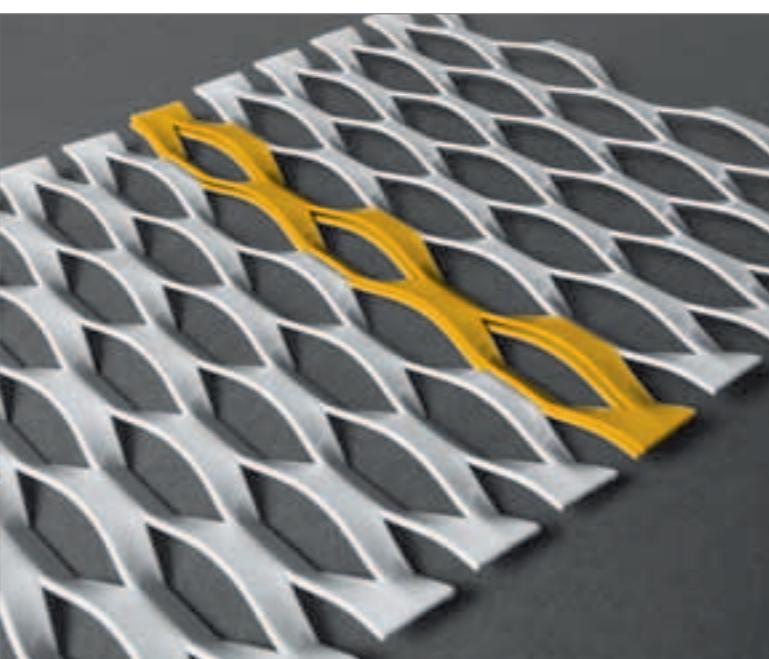
Surfaces of any shape and size can be created.
 Expanded mesh can be cut, bent, and curved.
 Panels are available in standard dimensions.
 Panels built to measure are also available on request.



HALF MESH OVERLAP - SIDE A

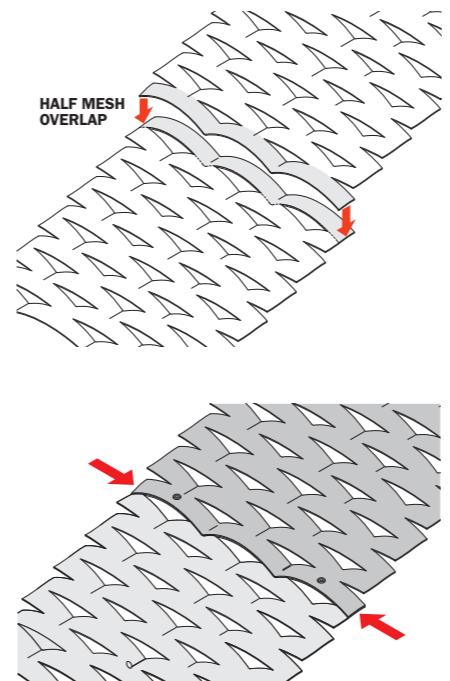


FULL MESH OVERLAP – SIDE A

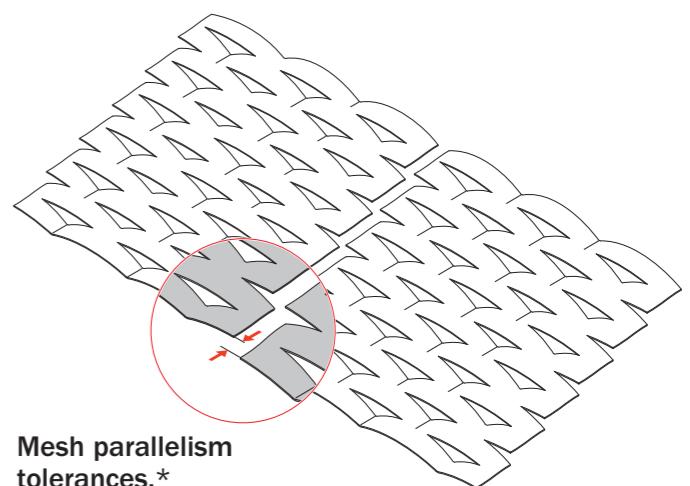
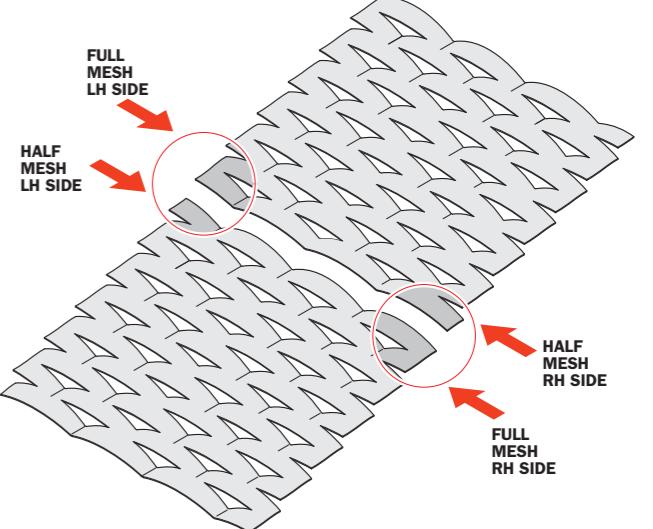


CHARACTERISTICS FOR USE IN MODULAR SOLUTIONS

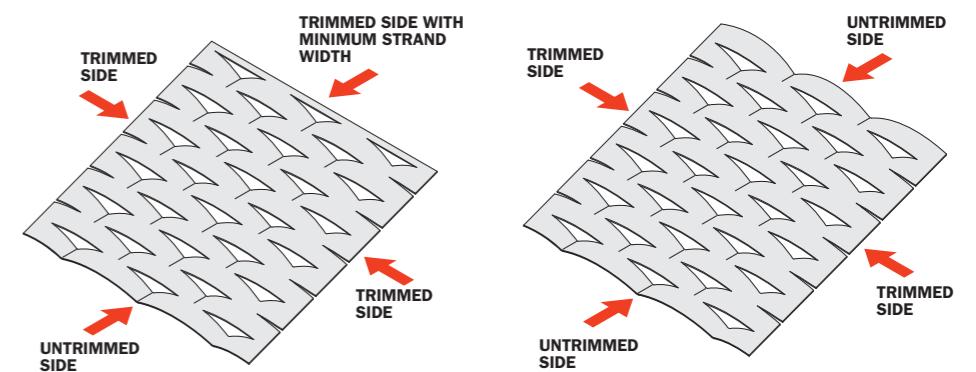
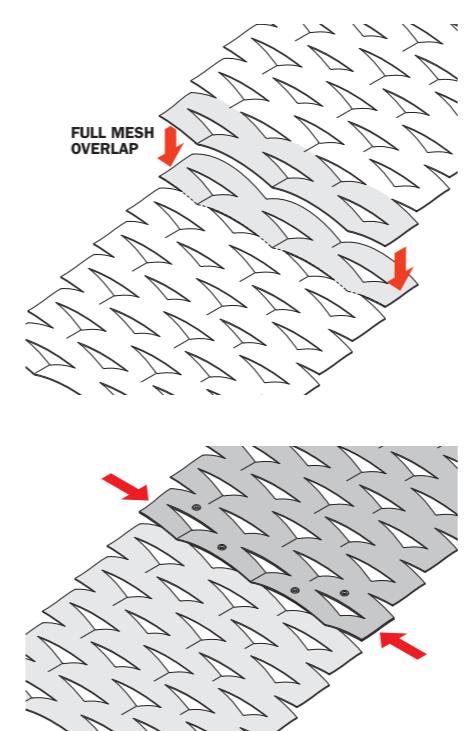
Possible mesh combinations



Mesh trimming



Mesh parallelism
tolerances.*



* Please contact our experts for further details about production tolerances

FIXING SUGGESTIONS

Expanded mesh can be fixed in a number of different ways. Here are a few popular examples.

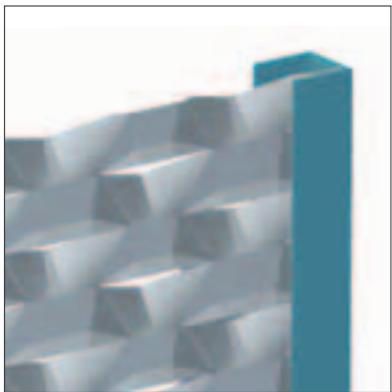
Panels can be trimmed and then framed in various profiles offering a protected edge to the material and allowing the panels to sit more uniformly side by side. The mesh can then be fixed or welded to the

substructure using various hooking systems depending on the specific design needs of your project.

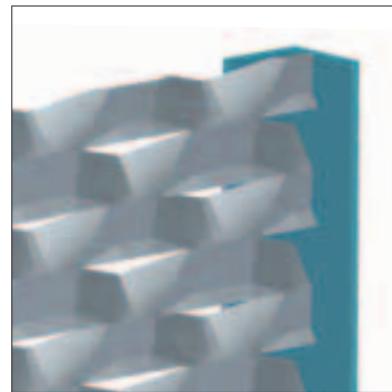
The resulting modular solutions are highly flexible allowing you to decide the layout of your panels at will. Please contact us for further information.

Framing profiles

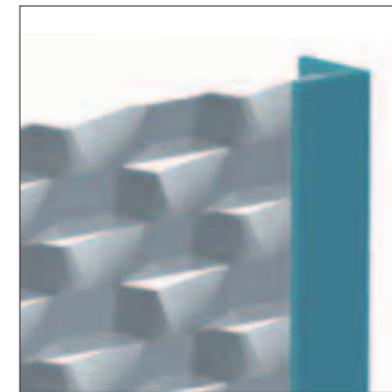
Dimensions of the framing profiles:
see page 192



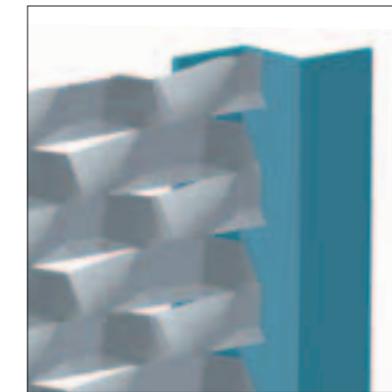
“U” section profile.
Expanded mesh welded on the inside.



“L” section profile.
The side of the frame is concealed.

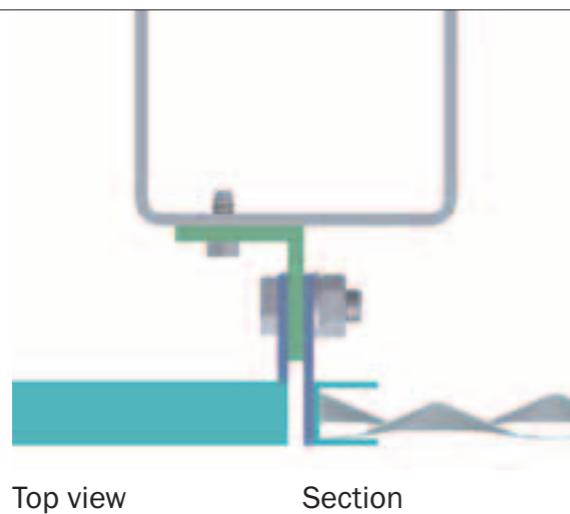


“L” section profile.
The side of the frame is visible.



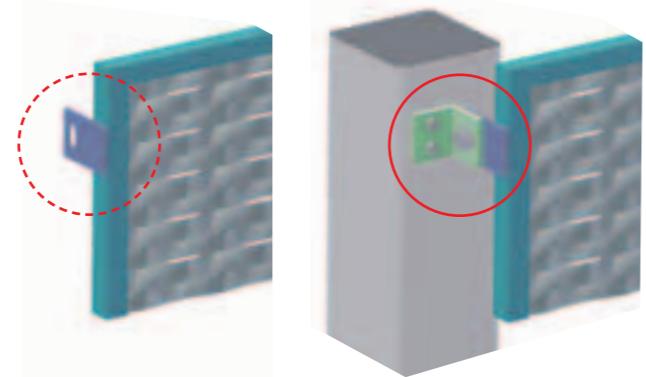
“Z” section profile.
Expanded mesh welded on the inside.

Fixing system with plates



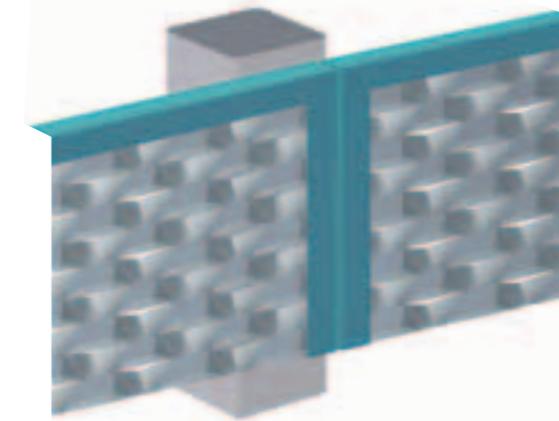
Top view

Section

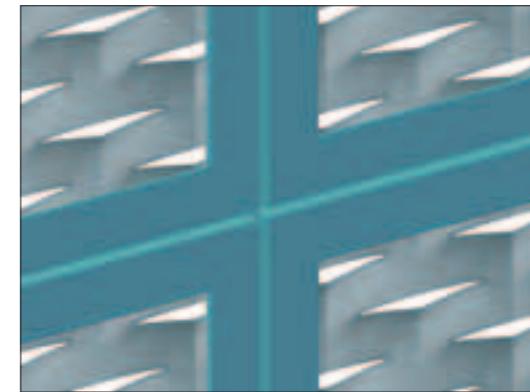
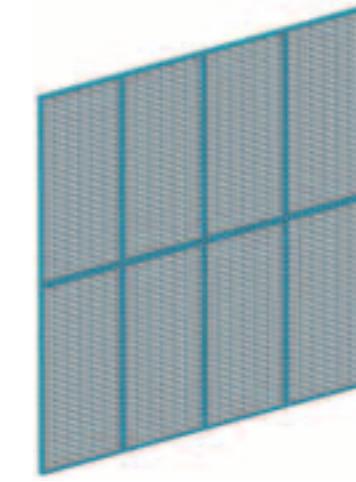


Fixing to supporting structure by plate and bracket.
The mesh is welded to the profile frame.

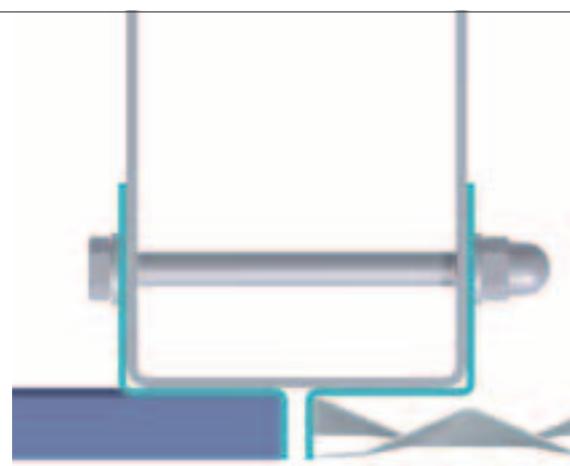
Panel joining



Modular positioning

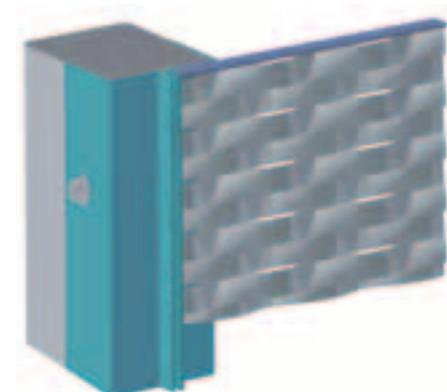


Fixing System with profiles



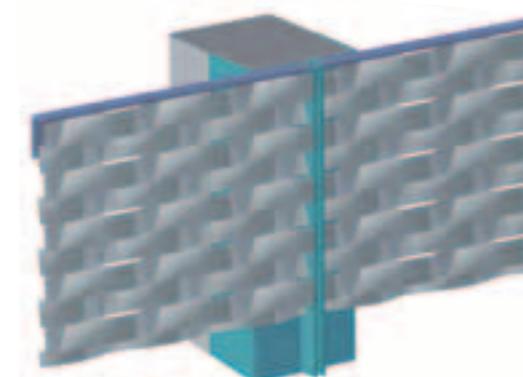
Top view

Section

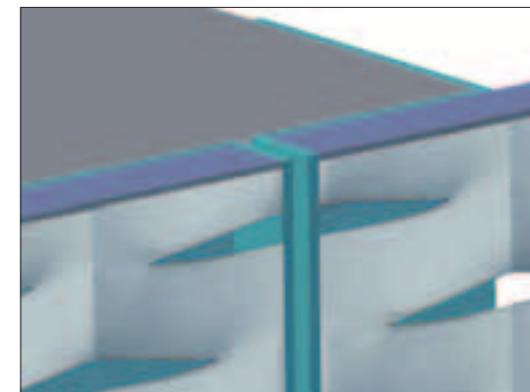
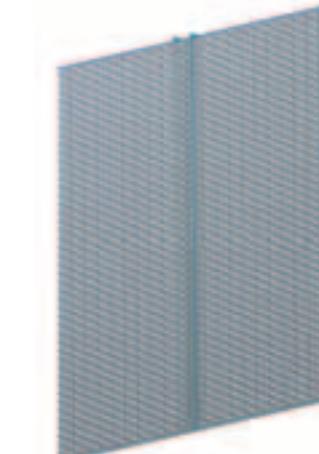


Fixing with continuous profile fixed to the supporting structure.
The mesh is welded to the profile frame.

Panel joining



Modular positioning



COLOUR EFFECT

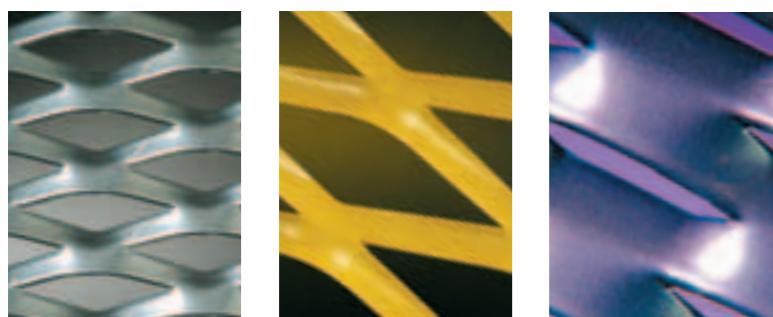
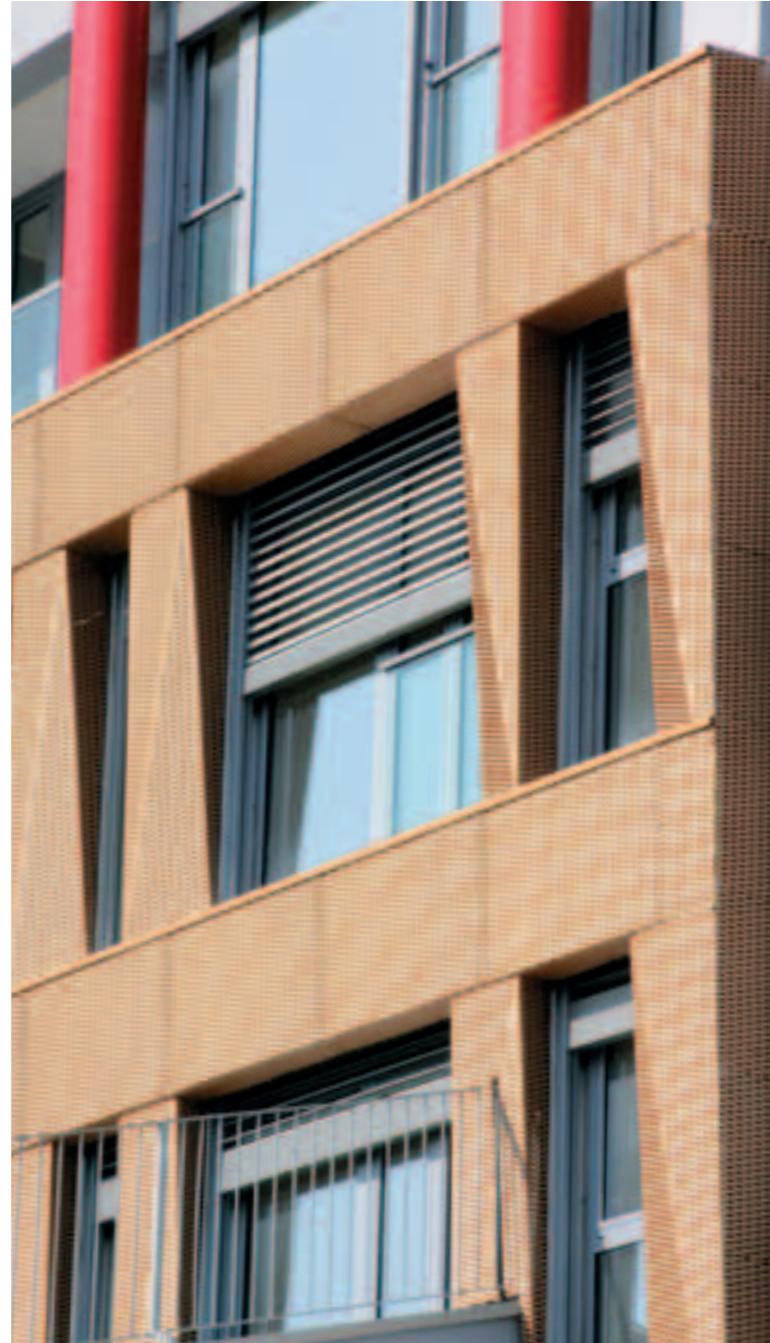
 

Finishes guaranteed and certified against corrosion

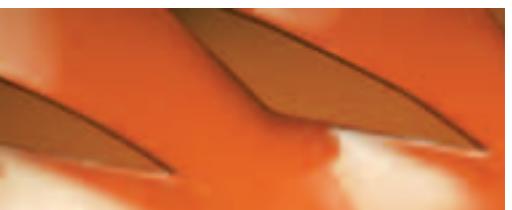
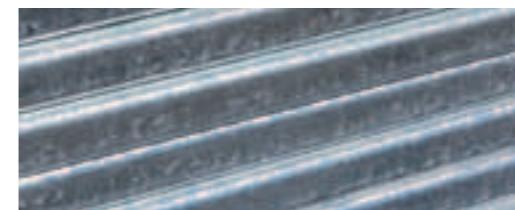
Constantly new visual effects for rational and creative design.

Bright colors and shimmering shades.

Large Meshes: prepare yourself for a surprise.



FINISH COMPARISON	CARBON STEEL + HOT DIP GALVANISING	SENDZIMIR CARBON STEEL + POWDER COATING FOR INDOOR/OUTDOOR	CARBON STEEL + POWDER COATING FOR INDOOR	ALUMINIUM + POWDER COATING FOR INDOOR/OUTDOOR	ALUMINIUM + ANODISING FOR INDOOR/OUTDOOR
Colour spectrum					
Corrosion resistance	★★★★★	★★★★	★★★★	★★★★★	★★★★★



Hot-dip galvanizing

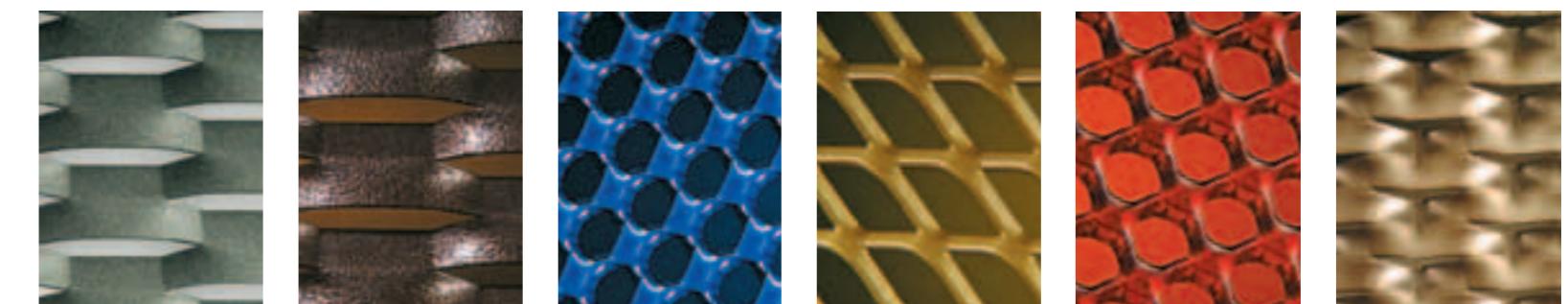
Hot-dip galvanizing is a surface coating treatment for the protection of metals based on the properties of molten zinc. A recently hot-dip galvanized surface is at first bright and shiny and then takes on a matte light color over time.

Anodizing

Anodizing is a chemical electric process performed in order to form a layer of oxide on the surface of articles in aluminum that provides protection against corrosion.

Powder coating

In addition to the vast range of colors that enriches the other choices made with personality, powder coating provides different types of protection against the corrosion of metals as required by their specific use. Different types of powder coating are available: epoxy resin, polyester, and epoxy-polyester coating.





Longhi
group



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