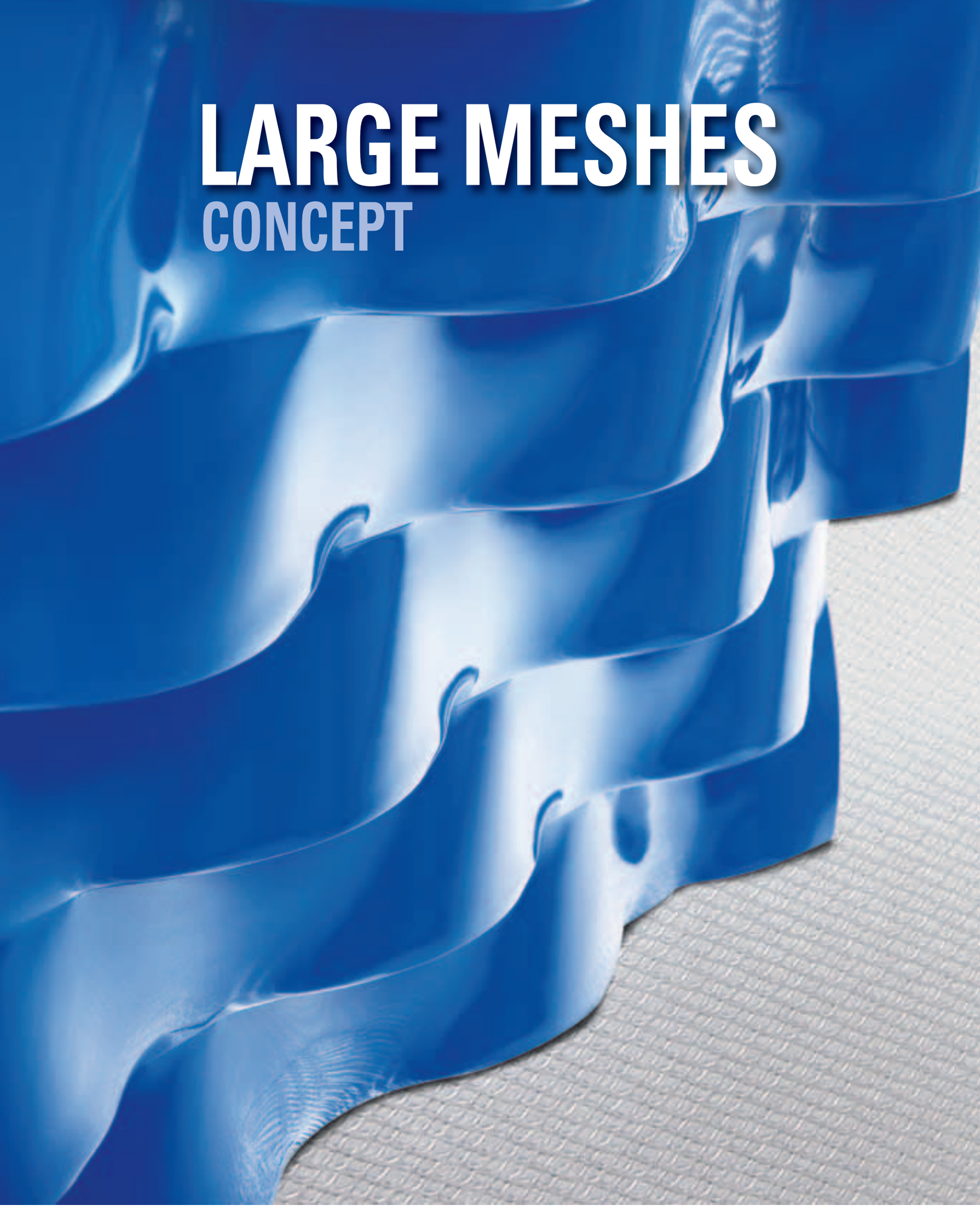
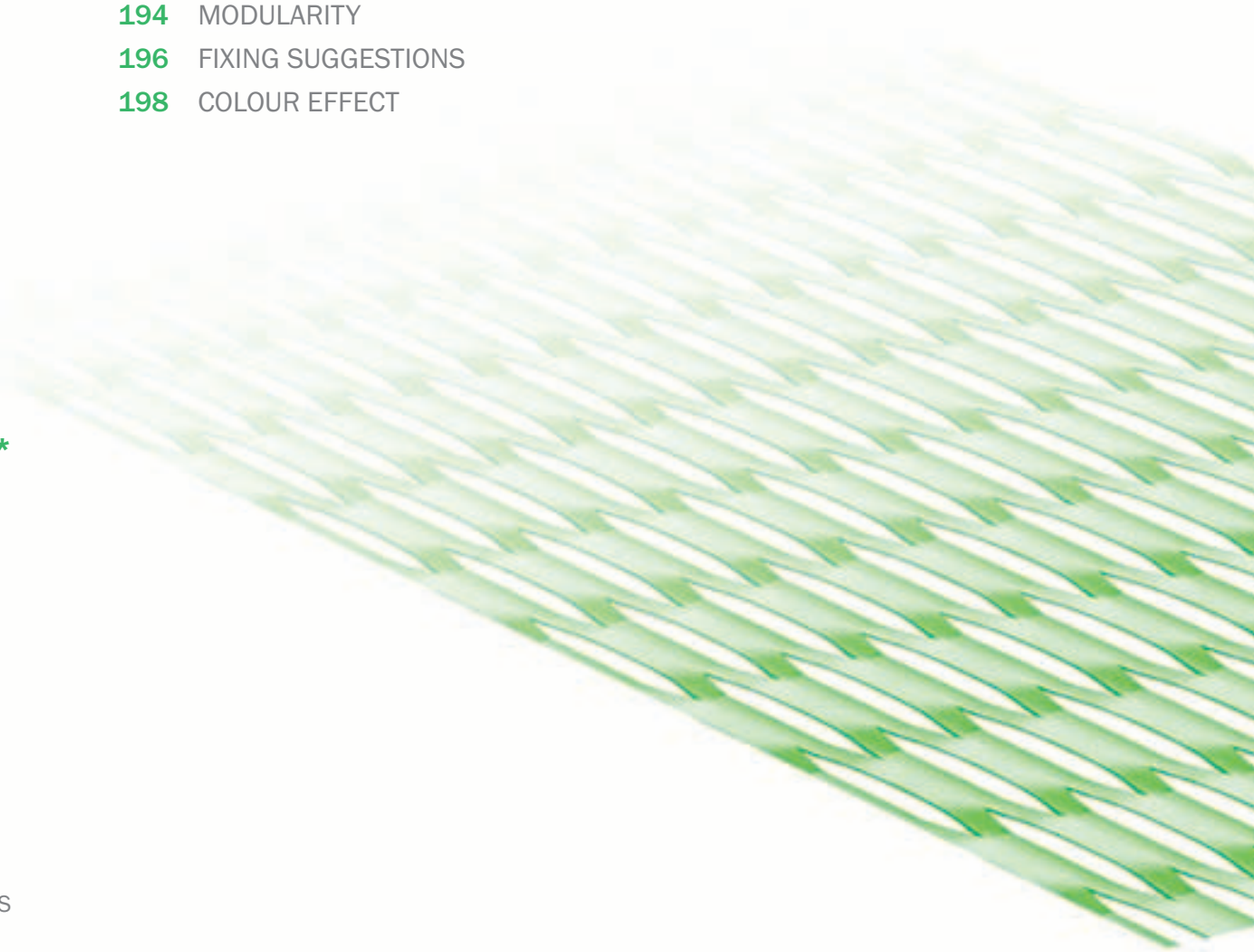


LARGE MESHES
CONCEPT

SUSTAINABLE RECYCLABLE SAFE SHADE CREATIVE TRANSPARENT

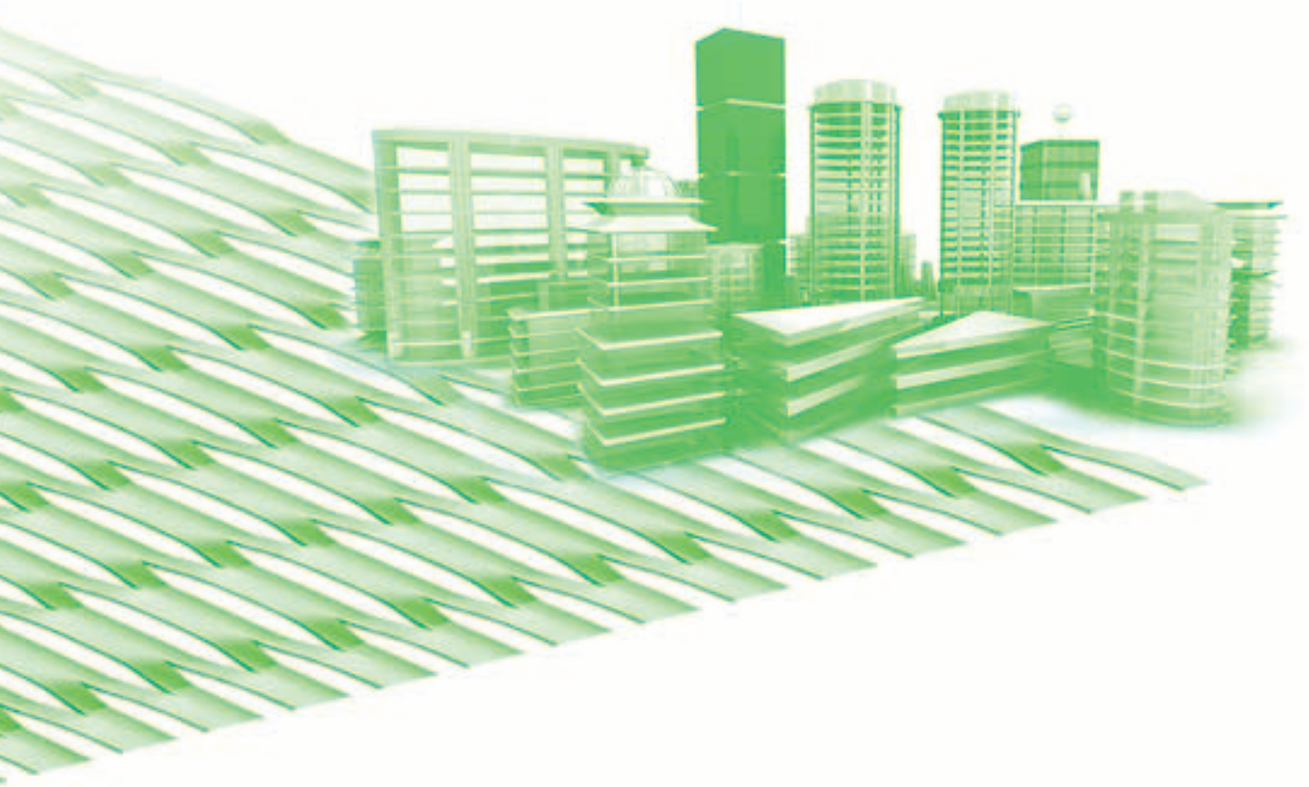


*ULTRA LIMITES

PROTECTION
SUSTAINABILITY
RECYCLING
AESTHETIC QUALITY

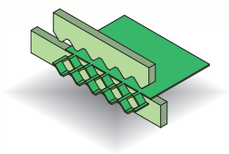
More and more in modern architecture, environmental impact and safety-related aspects are rightfully being considered as essential. The choice of facing materials now involves combining indispensable aesthetic needs with requisites of eco-compatibility and energy efficiency.

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



Green energy

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

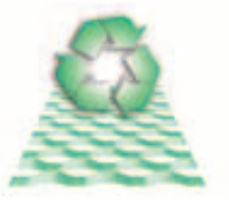


Pollution-free process

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

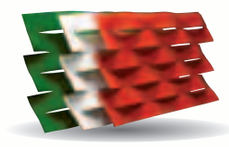
Zero-scrap processing

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.

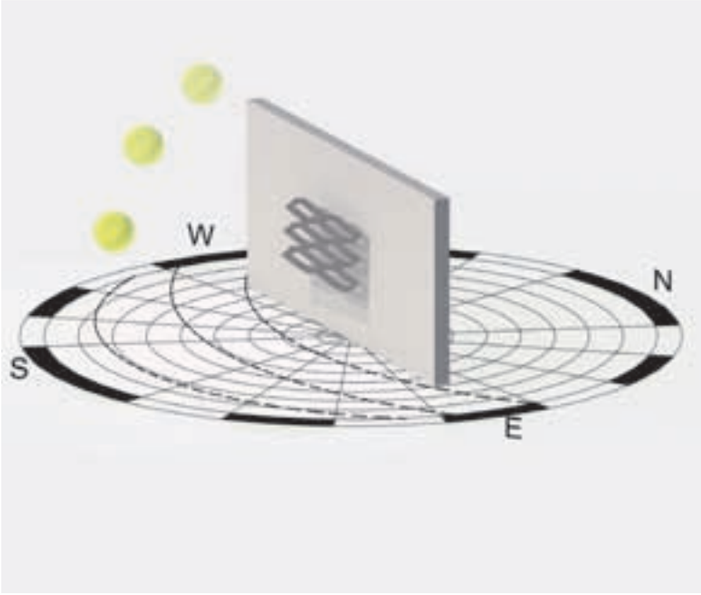
Natural environment and landscape

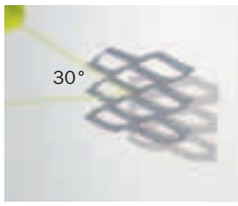
The transparency of expanded metal provides a view of the landscape and a more comfortable feeling. The natural environment is often sacrificed in the city, and this is the reason behind “vertical green” solutions and the way expanded mesh creates a metal trellis for climbing plants, for example.

(thanks to the kindly granting of the “WALLUP” system)

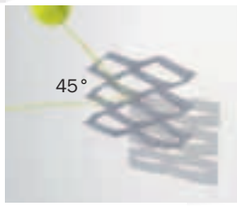
Energy savings and design

“Intelligent shade” limits the passage of heat and reduces the need for air-conditioning in the warmer months. The wide range of mesh available to the advantage of design also improves the building’s energy performance.

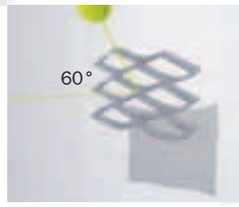




The study of light through expanded mesh
Sunlight depends on geographical position, the way the façade faces, the season, and the time of day.



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.

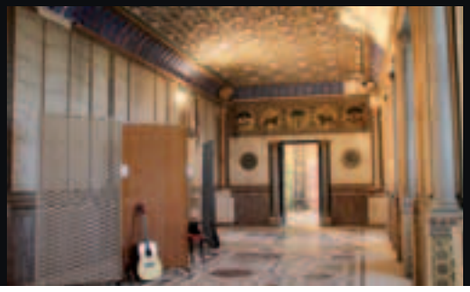
THE DESIGN REQUISITES

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.



DESIGN AESTHETICS COLOUR LIGHT TRANSPARENCY PERS

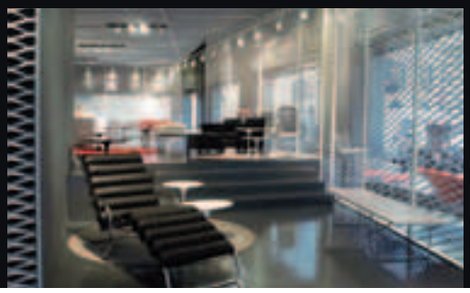
COMMUNICATING WITH MESH

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

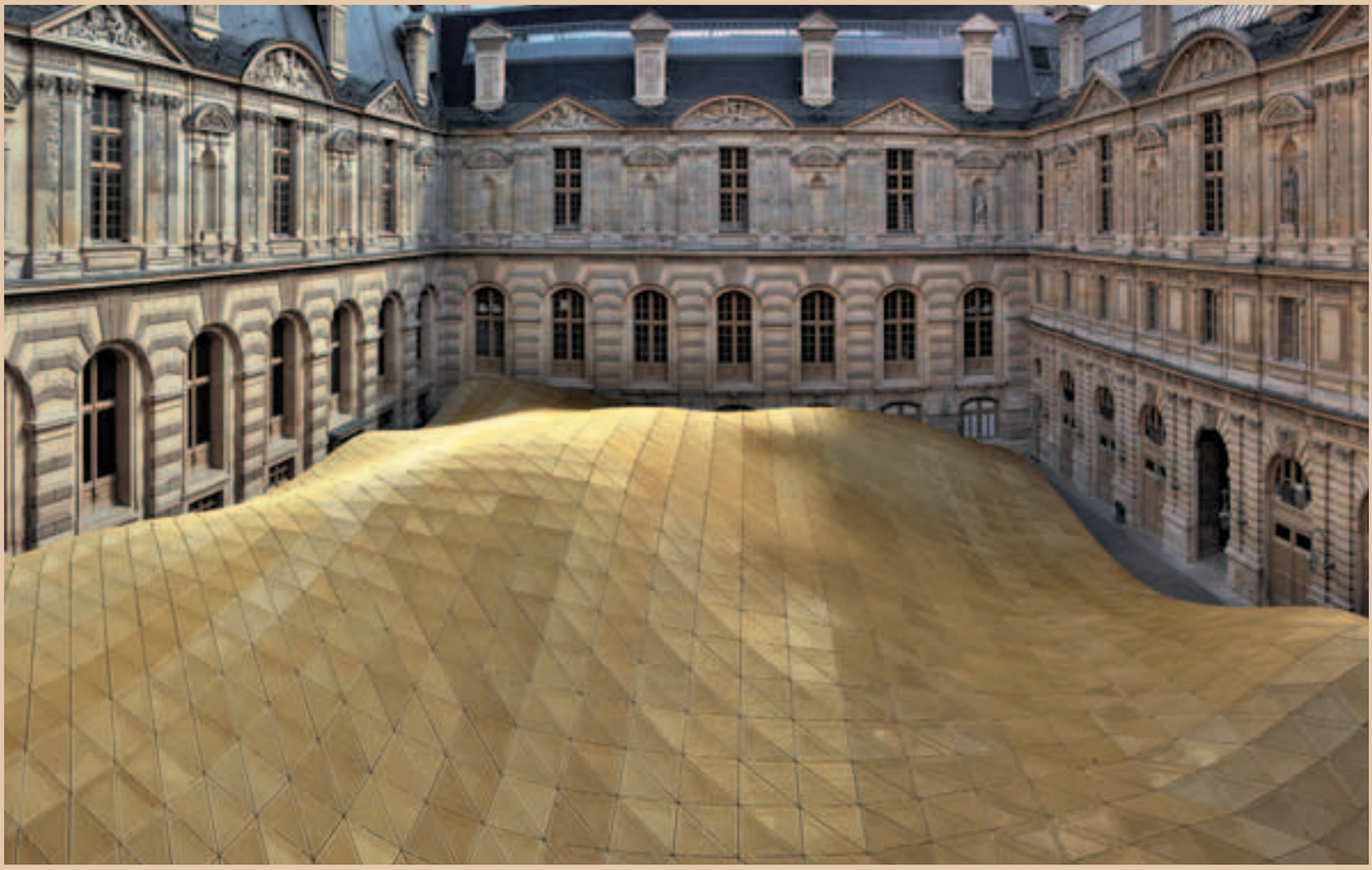
“MESH EXPERIENCE”

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



PECTIVE IN MOVEMENT ARCHITECTURAL LIGHTING CREATIVITY



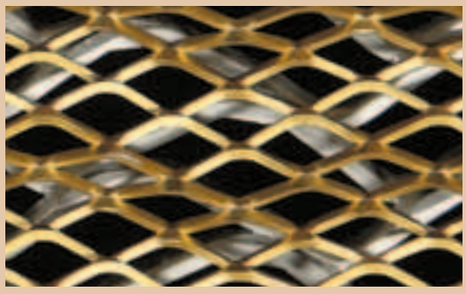
LOUVRE MUSEUM – ISLAMIC ART DEPARTMENT – PARIS (France)
Design: Studio Bellini, Rudy Ricciotti
Expanded metal cladding: METALLTECH
Photo: © Albert Greenwood, courtesy of the Louvre

© 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.

© Louvre Museum

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



© Metalltech archives

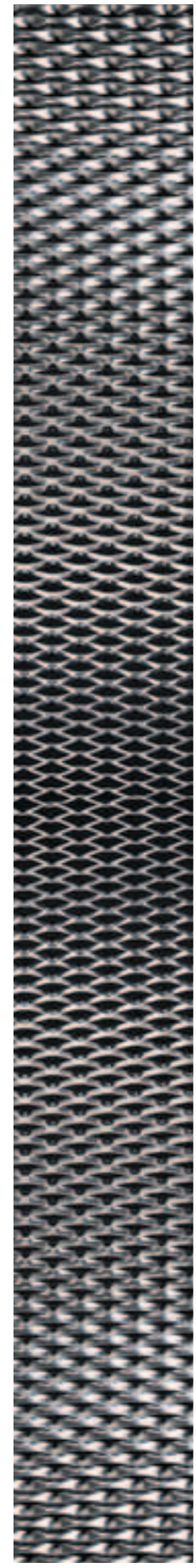
Combination of metal + glass + metal for the creation of a sunscreen with calibrated protection that filters the daylight passing through.

NAI - NEDERLANDS ARCHITECTUURINSTITUUT ROTTERDAM (Holland)

Design: JO COENEN & Co ARCHITECTEN

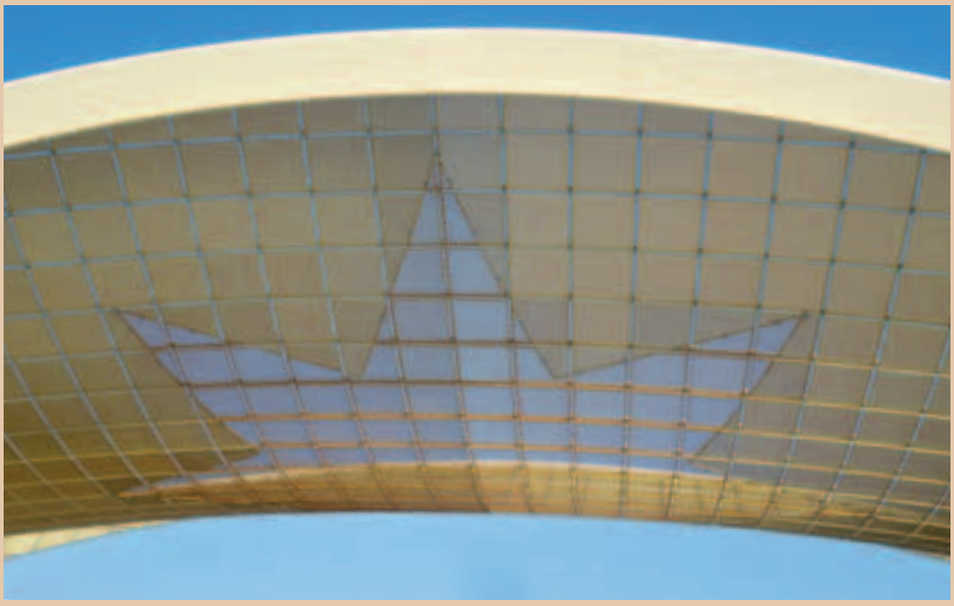
Expanded metal cladding: METALLTECH

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 ALIYEY 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.

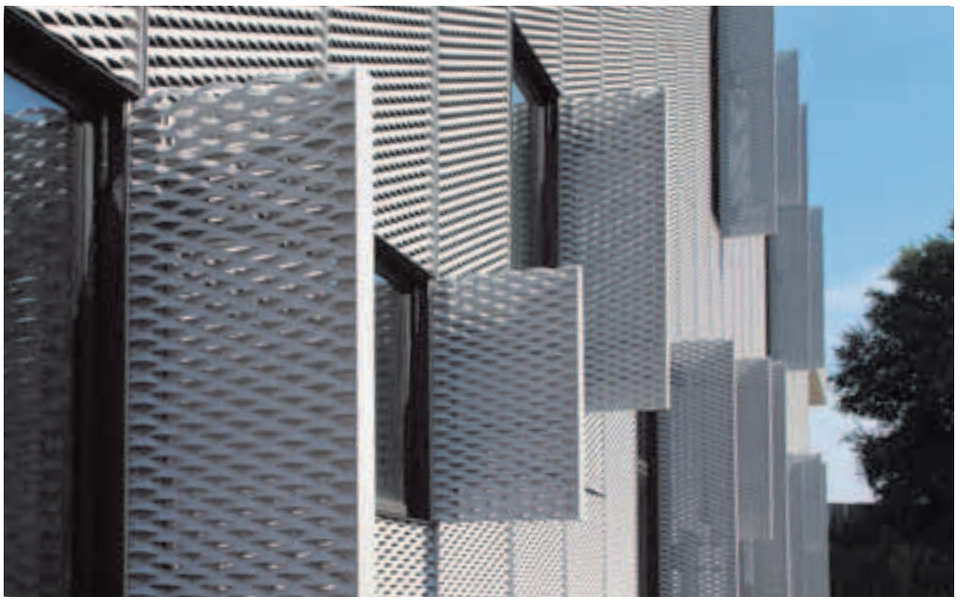
AZUR ARENA - ANTIBES (France)
Design: FRADIN WECK ARCHITECTURE, AUER + WEBER + ASSOZIIERTE
Photo: © Aldo Amoretti

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.

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

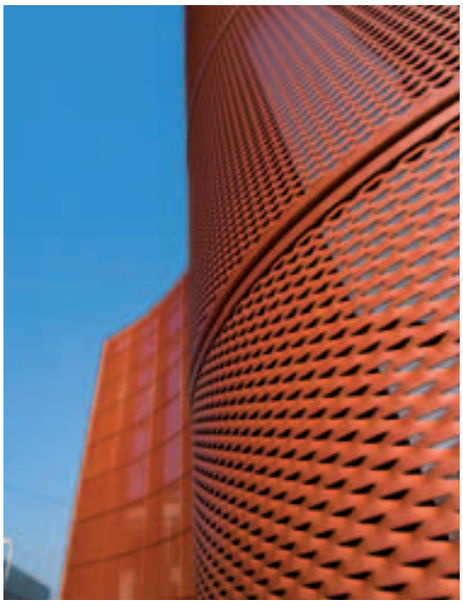
Facing in expanded mesh ensures the passage of air required for multi-storey parking facilities and visually lightens the impact of the not inconsiderable volume with transparency.

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



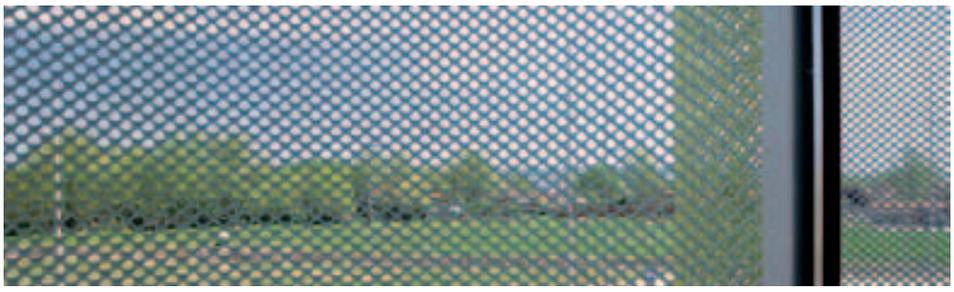
Vertical enclosure of the building, horizontal false ceiling, lateral "fins" as sunscreen for the windows to achieve the dual objective of facing and providing shade.

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



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.

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

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

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

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.

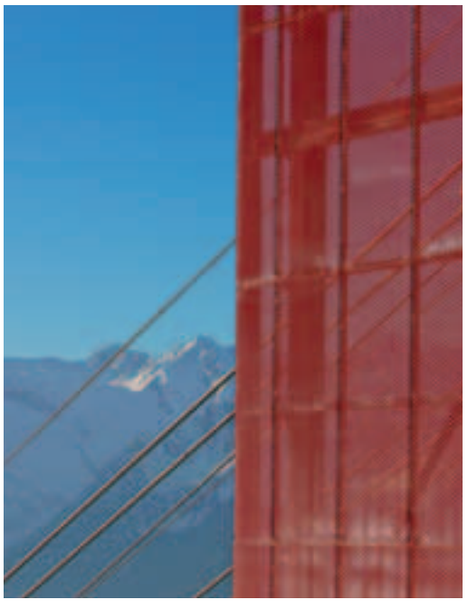
WOHNÜBERBAUUNG ROTSEEPARK - LUZERNE (Switzerland)
Design: Rigert + Bisang Architekten
Photo: © André Huber

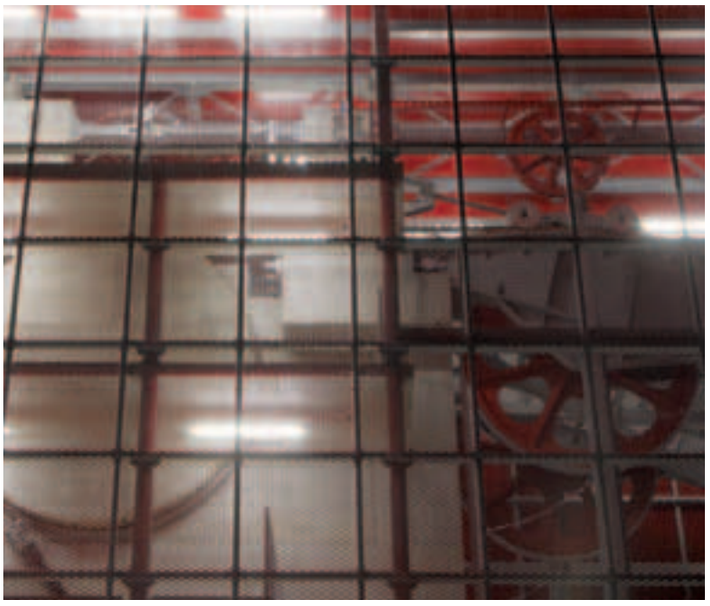
The sliding sunscreen installed as a part of a parapet can be positioned as required and guarantee visual comfort and optimum thermal performance.

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

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.

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





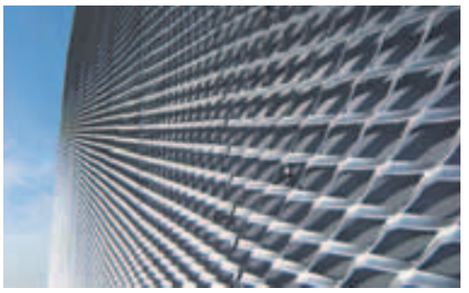
The station enclosure and its utility rooms faced in red lacquered expanded metal ensure ventilation in the rooms while providing protection against the weather and adequate illumination for the boarding platforms at the same time.

NUUK CENTER
GREENLAND
(Denmark)

Design:
Arch. MT Højgaard

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”.

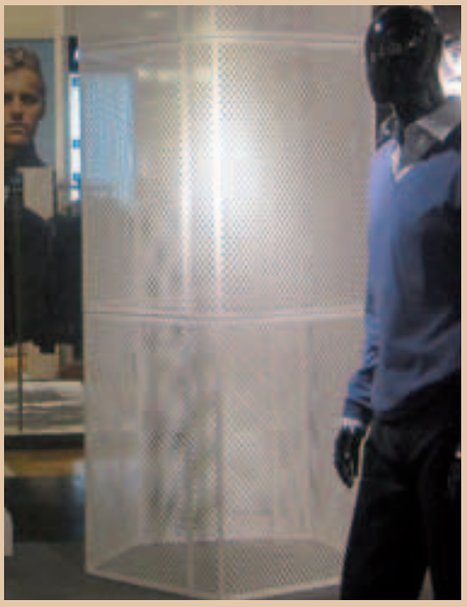
PERFORMING ARTS CENTER
FOLKESTONE (England)
Design:
Alison Brooks Architects
Photo:
© Longhigroup archives

The shaped 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

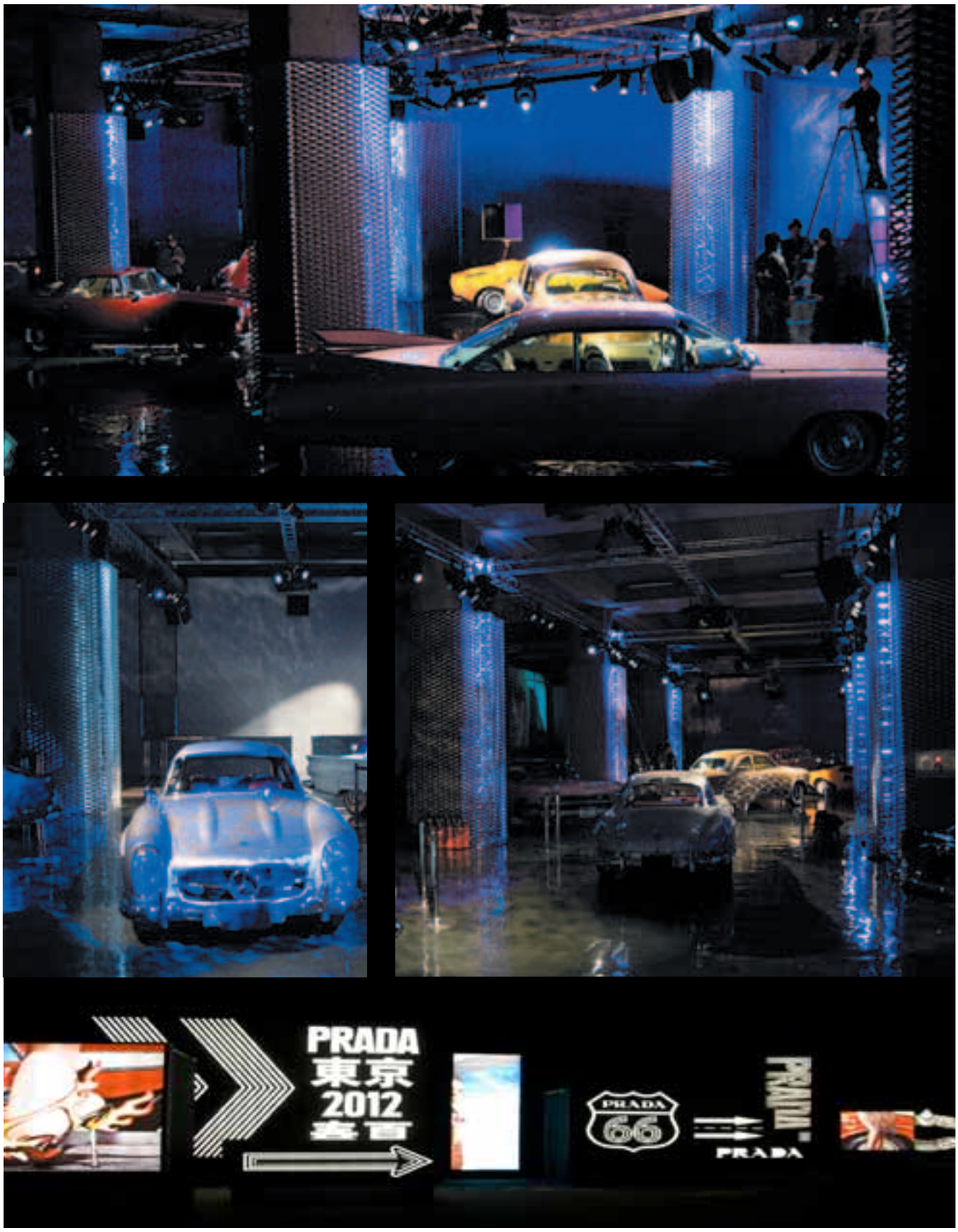
Façade as enclosure at the Croix-Roubaix University campus with large, gold-colored panels positioned at alternating inclination in order to provide movement and luminous reflection to the surface.

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.

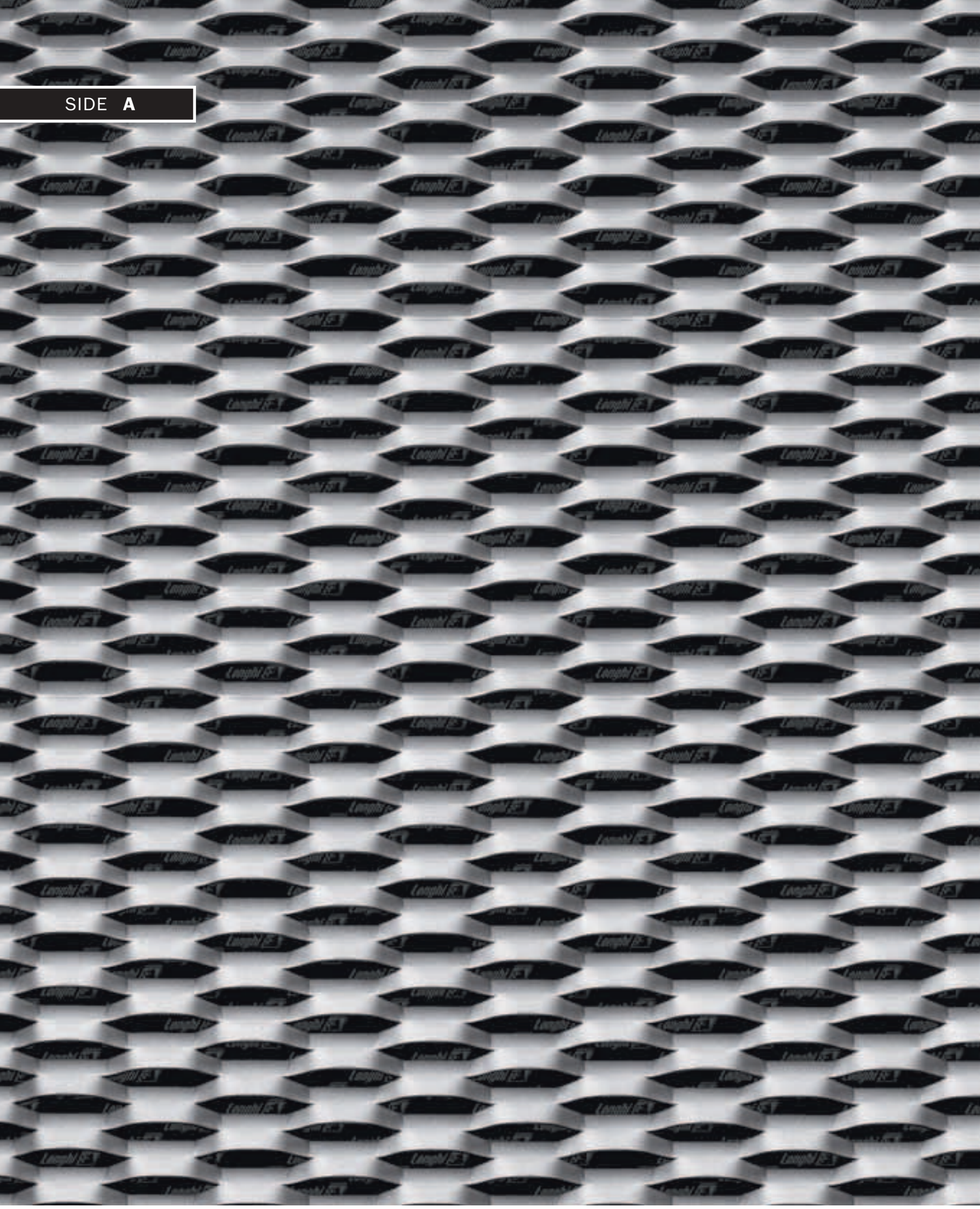
ALL MESHES IN REAL-SIZE

Fils

line protech

Italfim

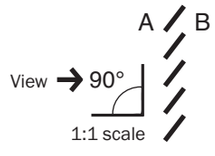
line stiltech



Fils 21

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

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



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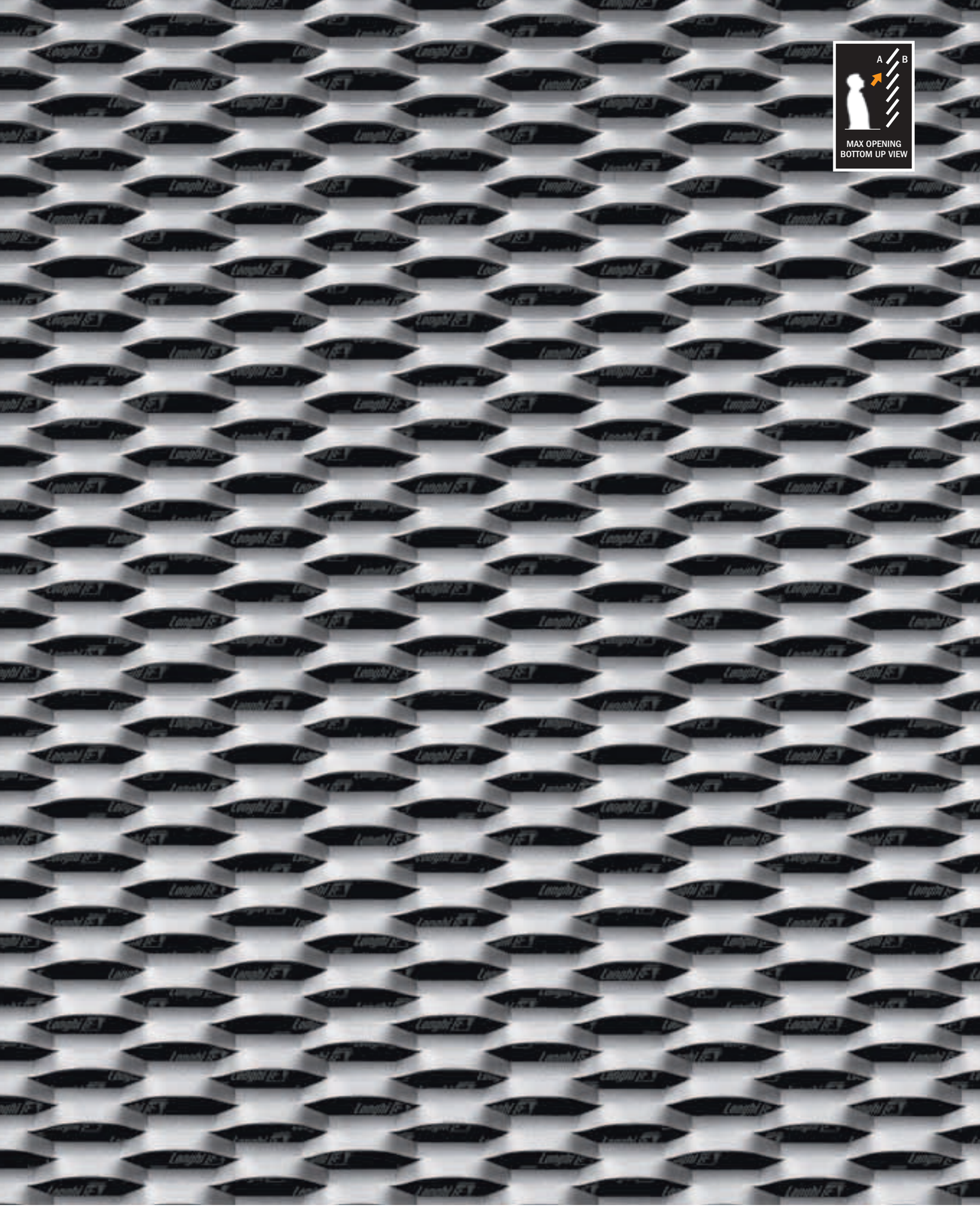
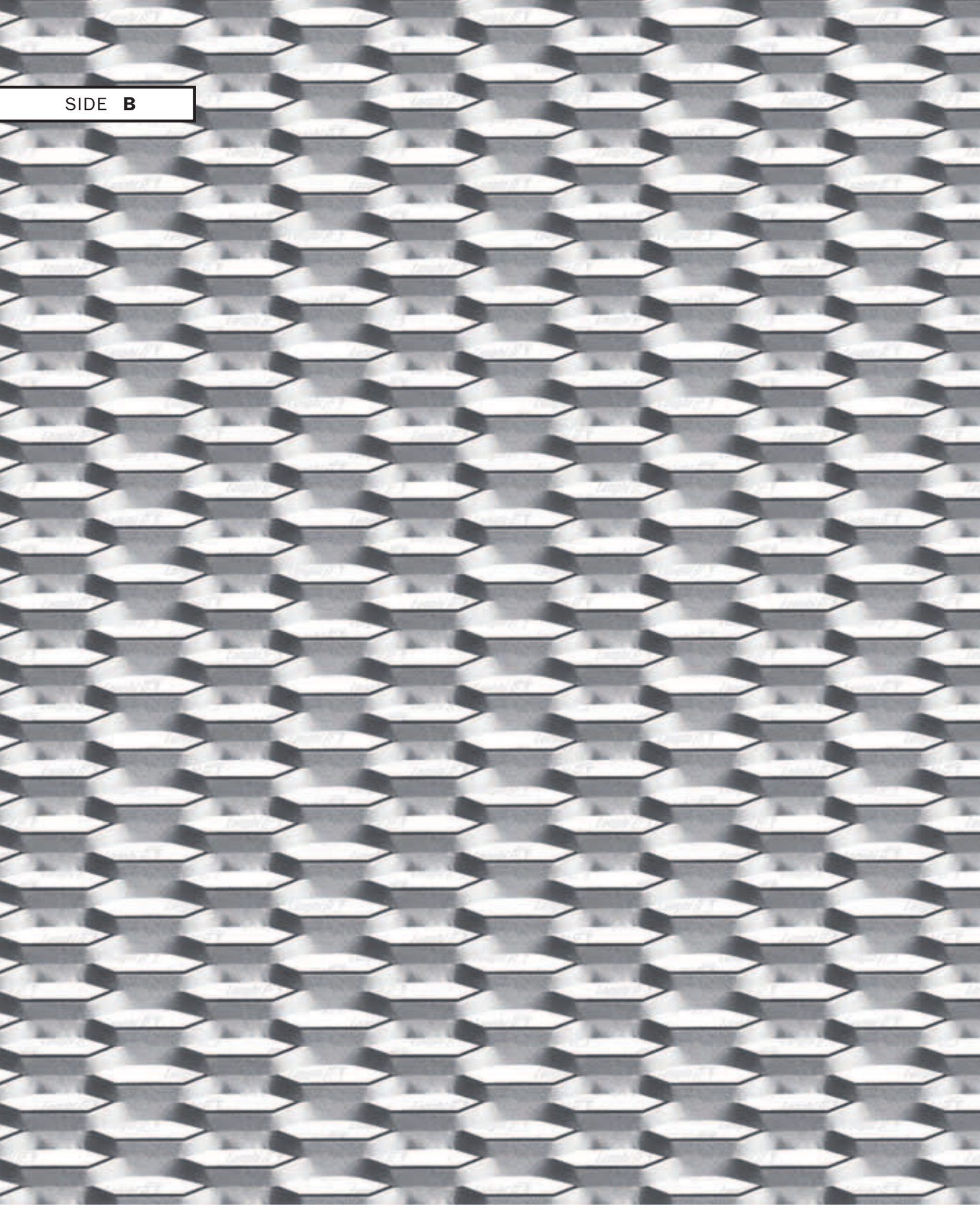


Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 45 x 15 (13,4) - 5 x **1,5**	8,80	3,00	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 2000 Max	measured at the centre 7 (~) ◆	33,3 (~)
E 45 x 15 (13,4) - 5 x **2,0**	11,60	4,00			
E 45 x 15 (13,4) - 5 x **3,0**	17,50	6,00			

◆ Framing profiles: see page 192

SIDE **B**



Fils 21

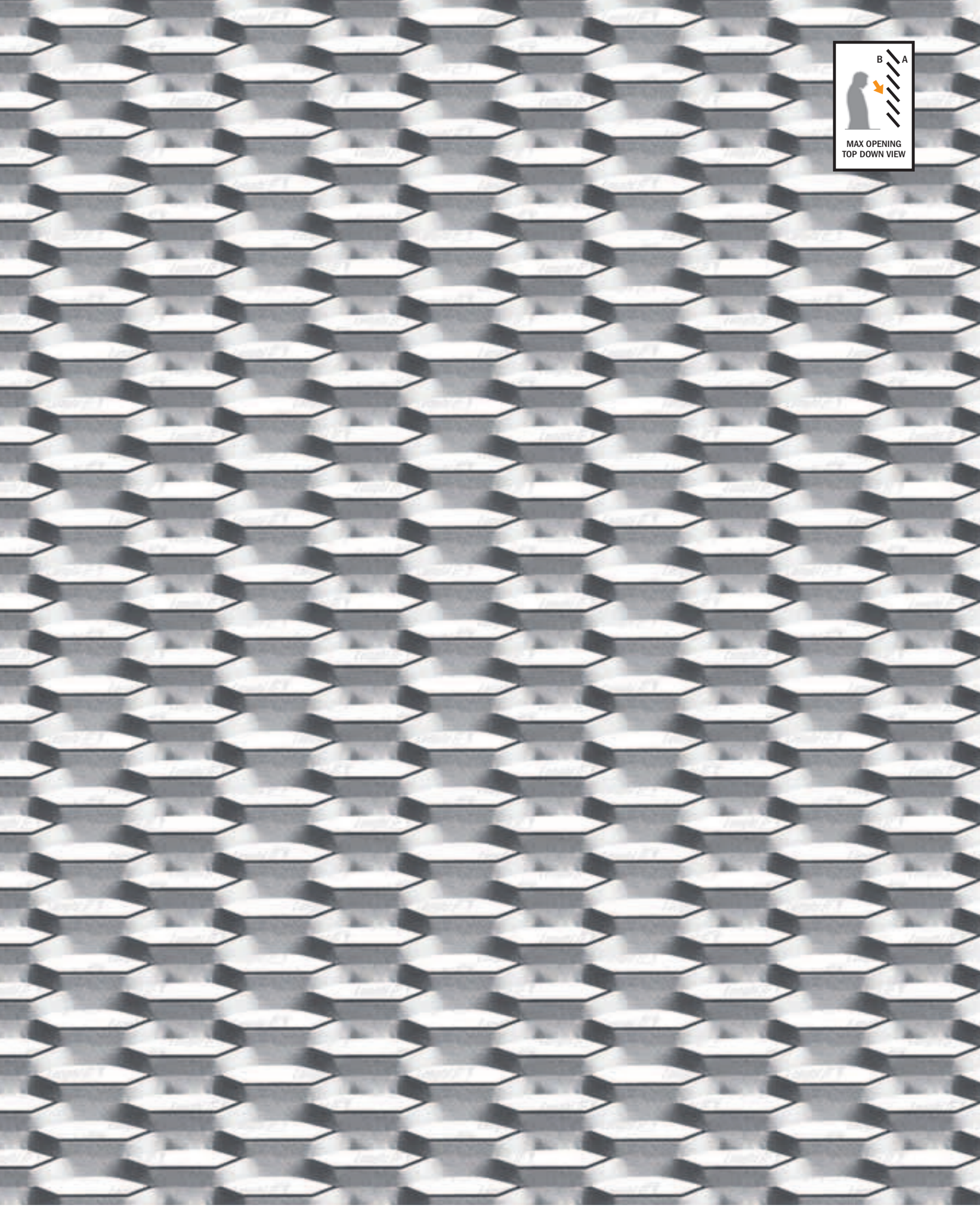
E 45 x 15 (13,4) - 5 x t

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

B A

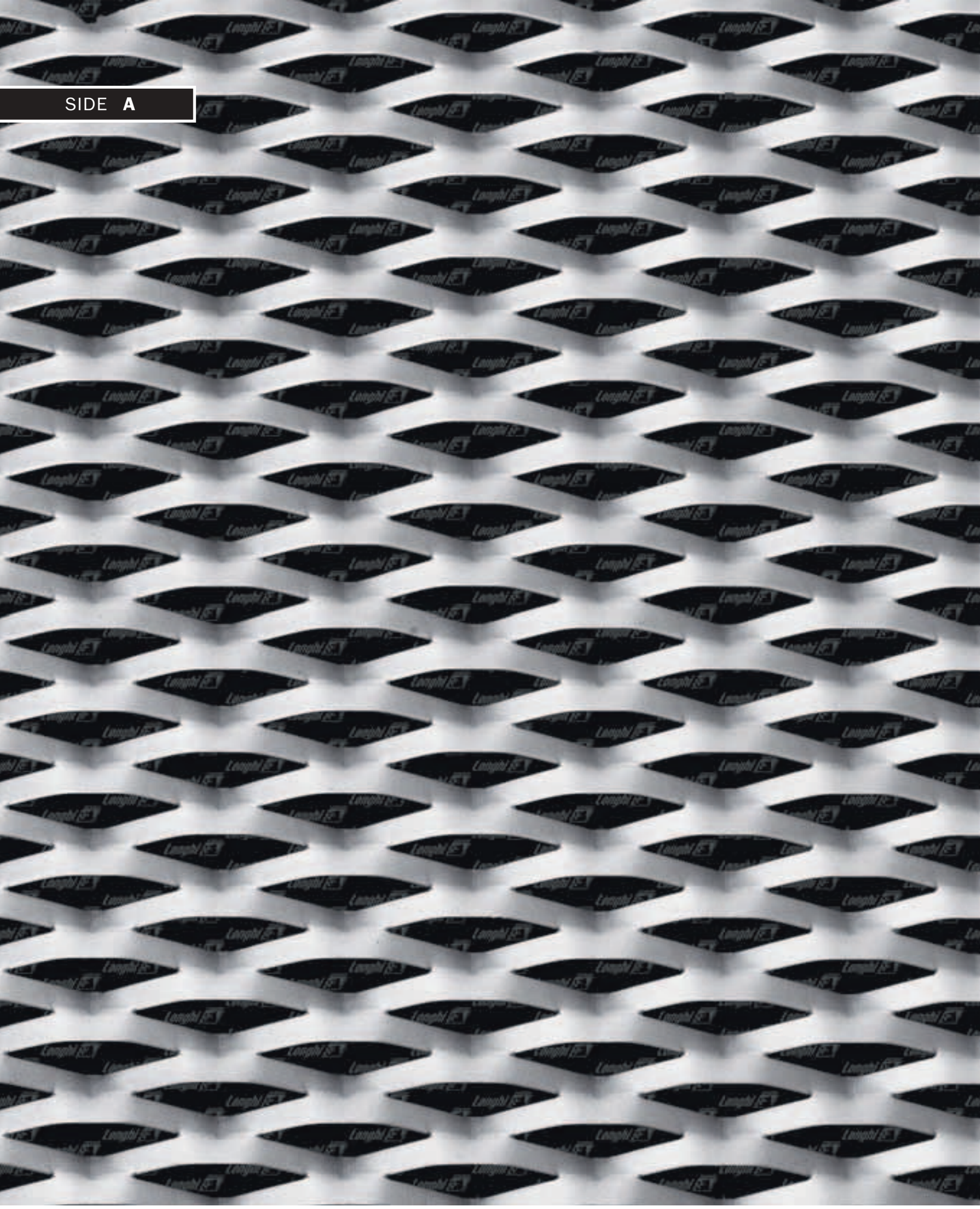
View → 90°

1:1 scale



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 45 x 15 (13,4) - 5 x **1,5**	8,80	3,00	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 2000 Max	measured at the centre 7 (~) ◆	33,3 (~)
E 45 x 15 (13,4) - 5 x **2,0**	11,60	4,00			
E 45 x 15 (13,4) - 5 x **3,0**	17,50	6,00			

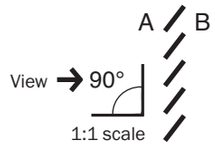
◆ Framing profiles: see page 192



Fils 5

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

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



Fils

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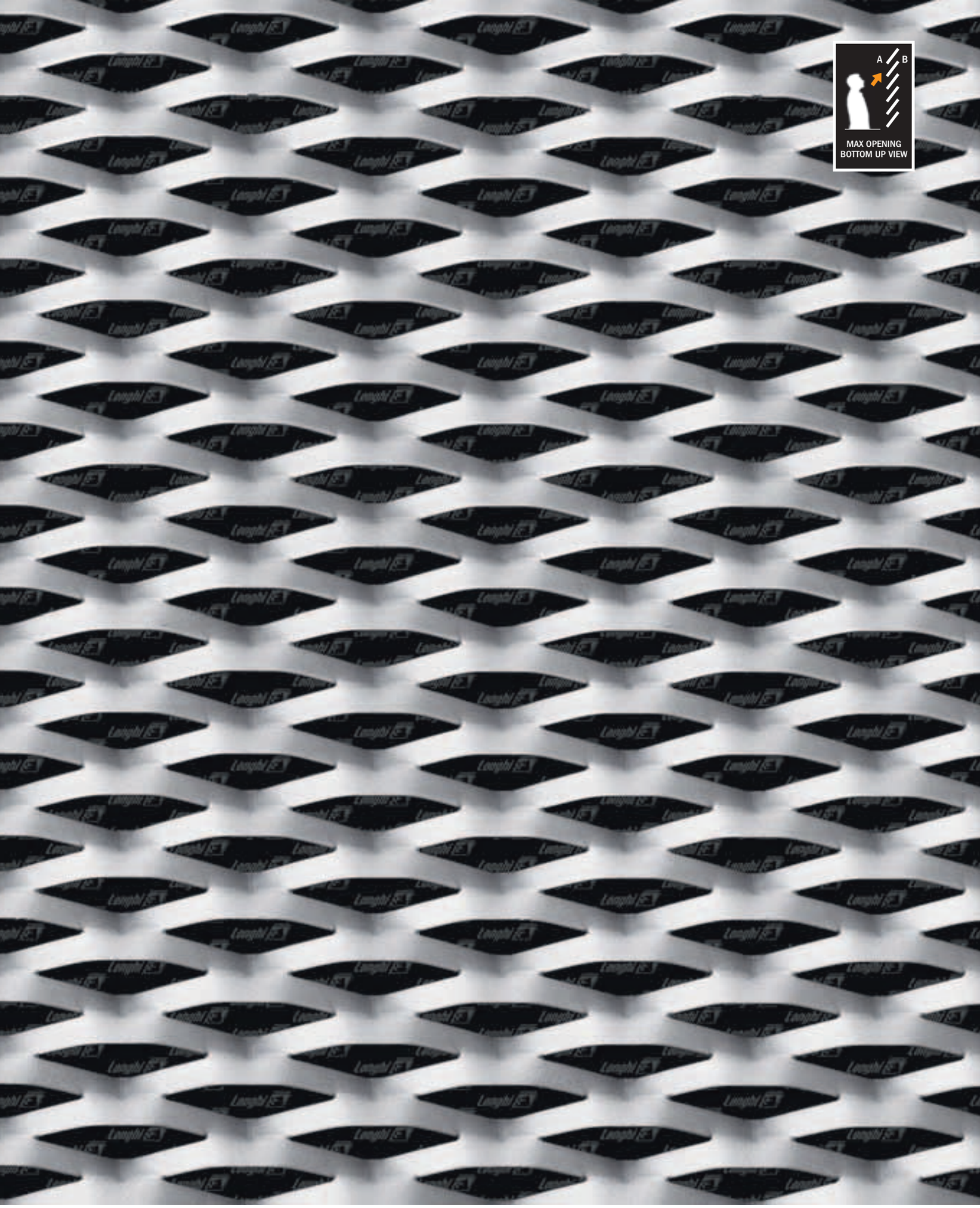
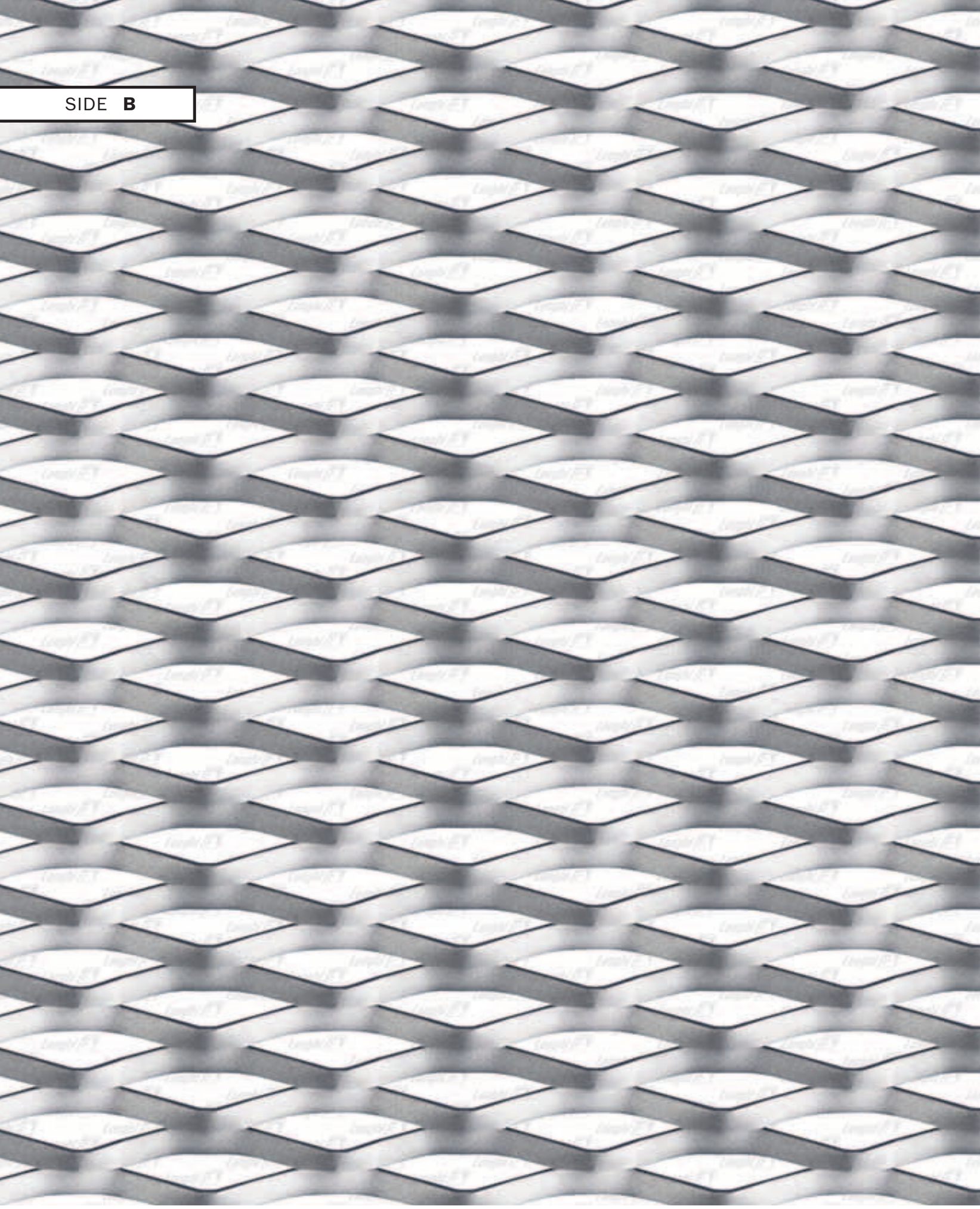


Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 62,5 x 20 (20) - 7,5 x **1,5**	9,00	3,00	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 2000 Max	measured at the centre 10 (~) ◆	36,2 (~)
R 62,5 x 20 (20) - 7,5 x **2,0**	12,00	4,00			
R 62,5 x 20 (20) - 7,5 x **3,0**	18,00	6,00			

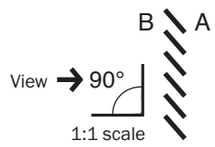
◆ Framing profiles: see page 192

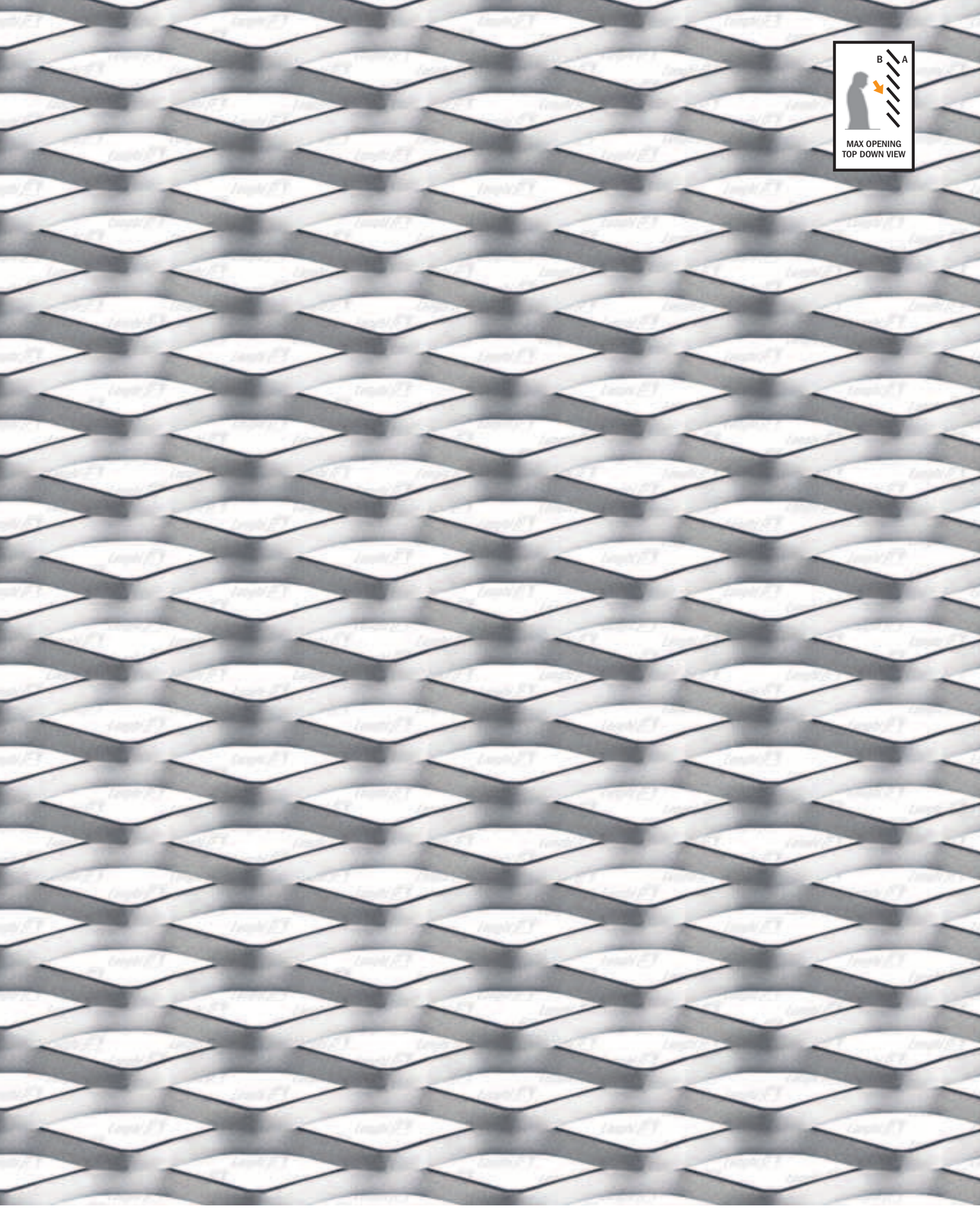


Fils 5

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

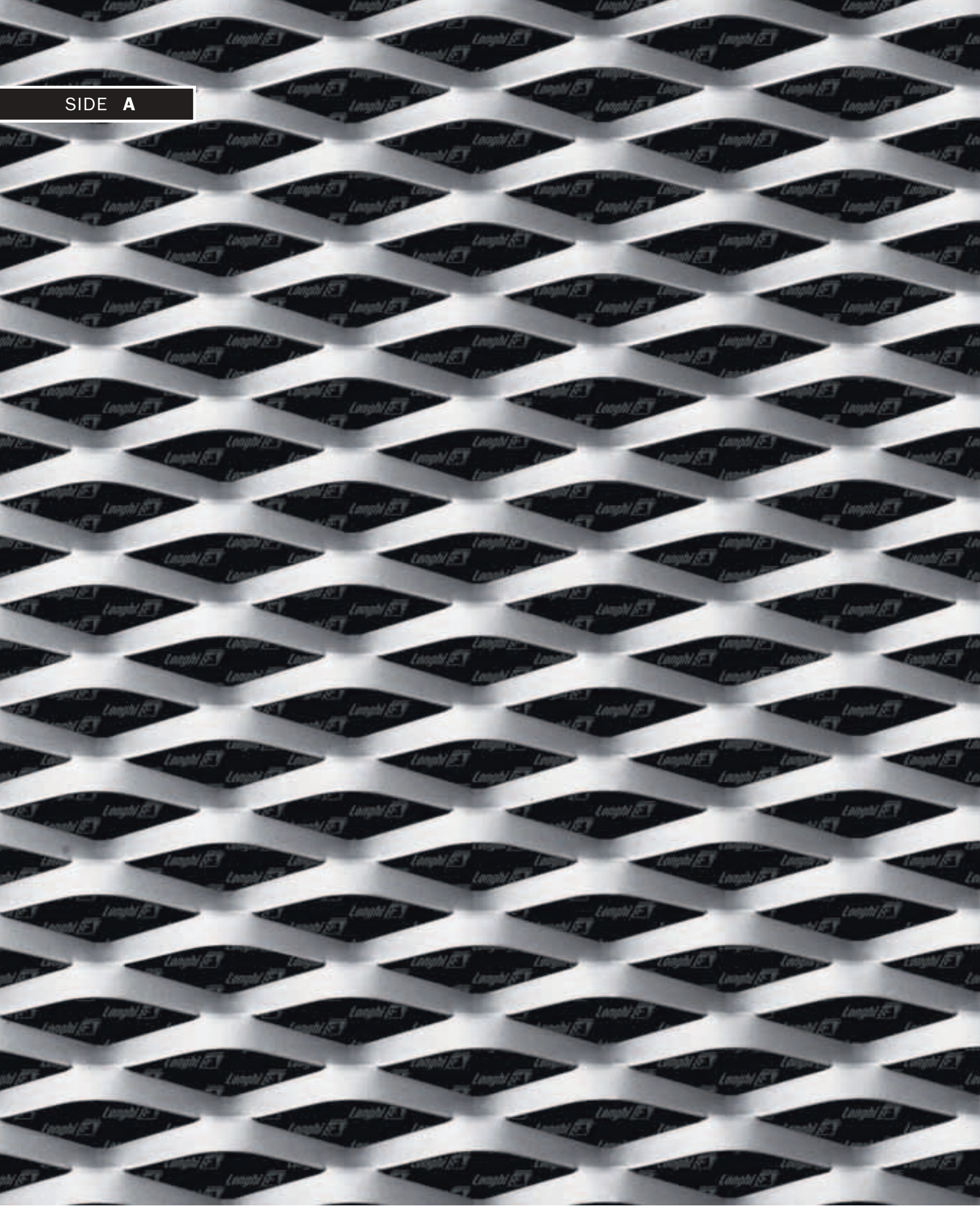
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t





Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 62,5 x 20 (20) - 7,5 x **1,5**	9,00	3,00	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 2000 Max	measured at the centre 10 (~) ◆	36,2 (~)
R 62,5 x 20 (20) - 7,5 x **2,0**	12,00	4,00			
R 62,5 x 20 (20) - 7,5 x **3,0**	18,00	6,00			

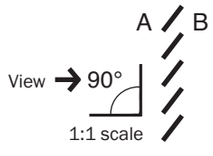
◆ Framing profiles: see page 192



Airport

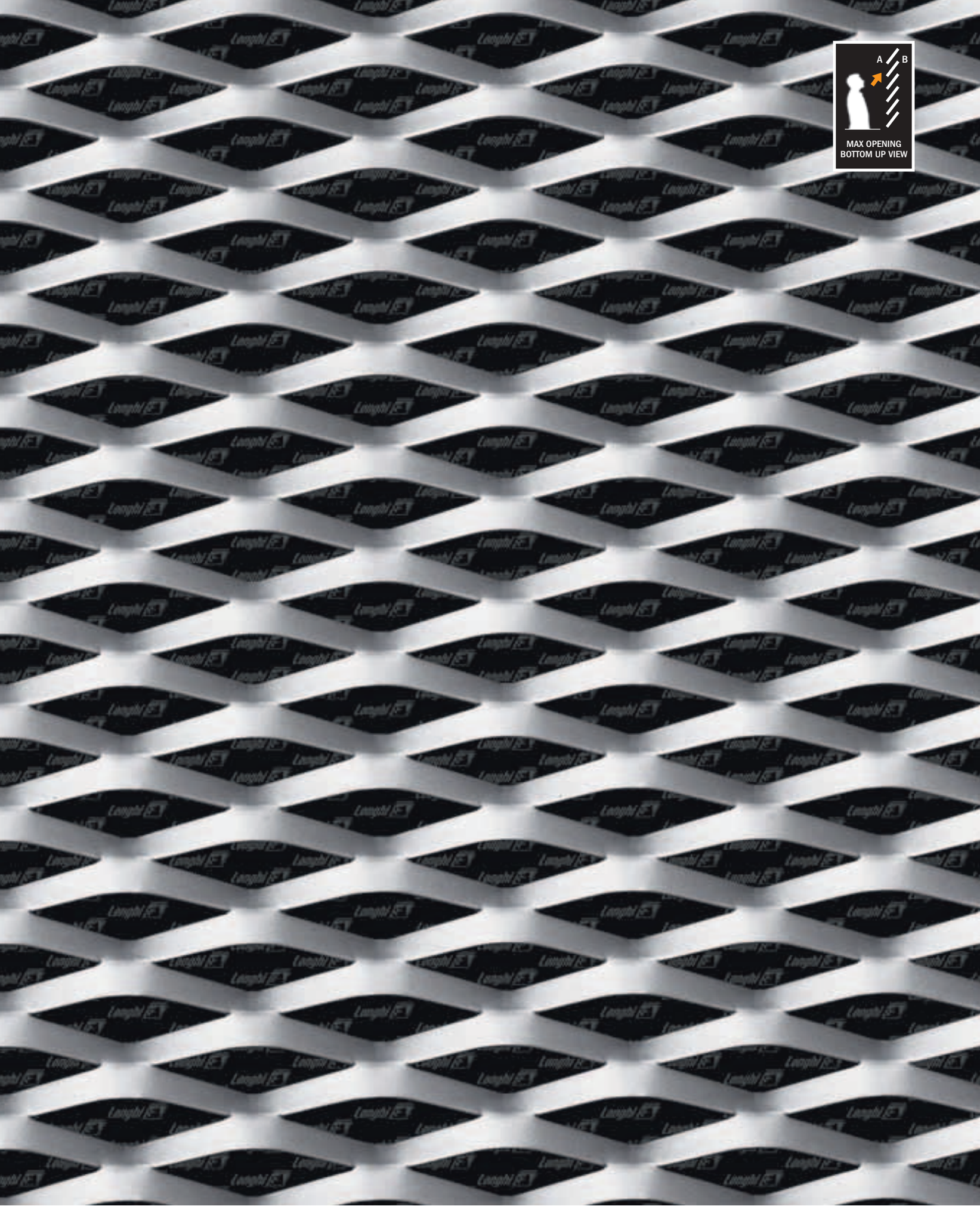
R 62,5 x 20 (25,5) - 9,1 x t

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



Fils

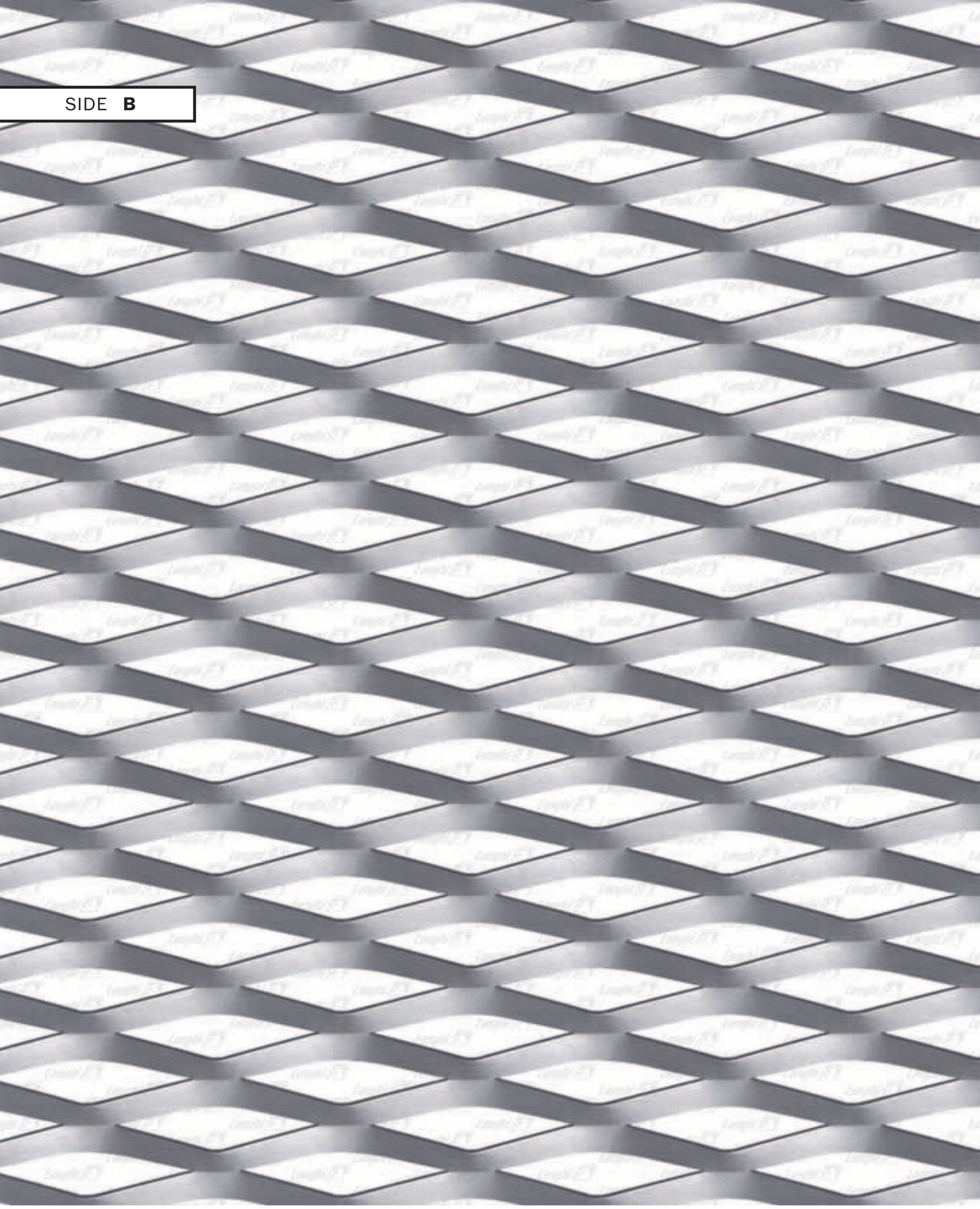
protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 11 (~) ◆	42 (~)
R 62,5 x 20 (25,5) - 9,1 x **2,0**	11,00	3,60			

◆ Framing profiles: see page 192

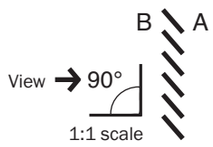
SIDE **B**

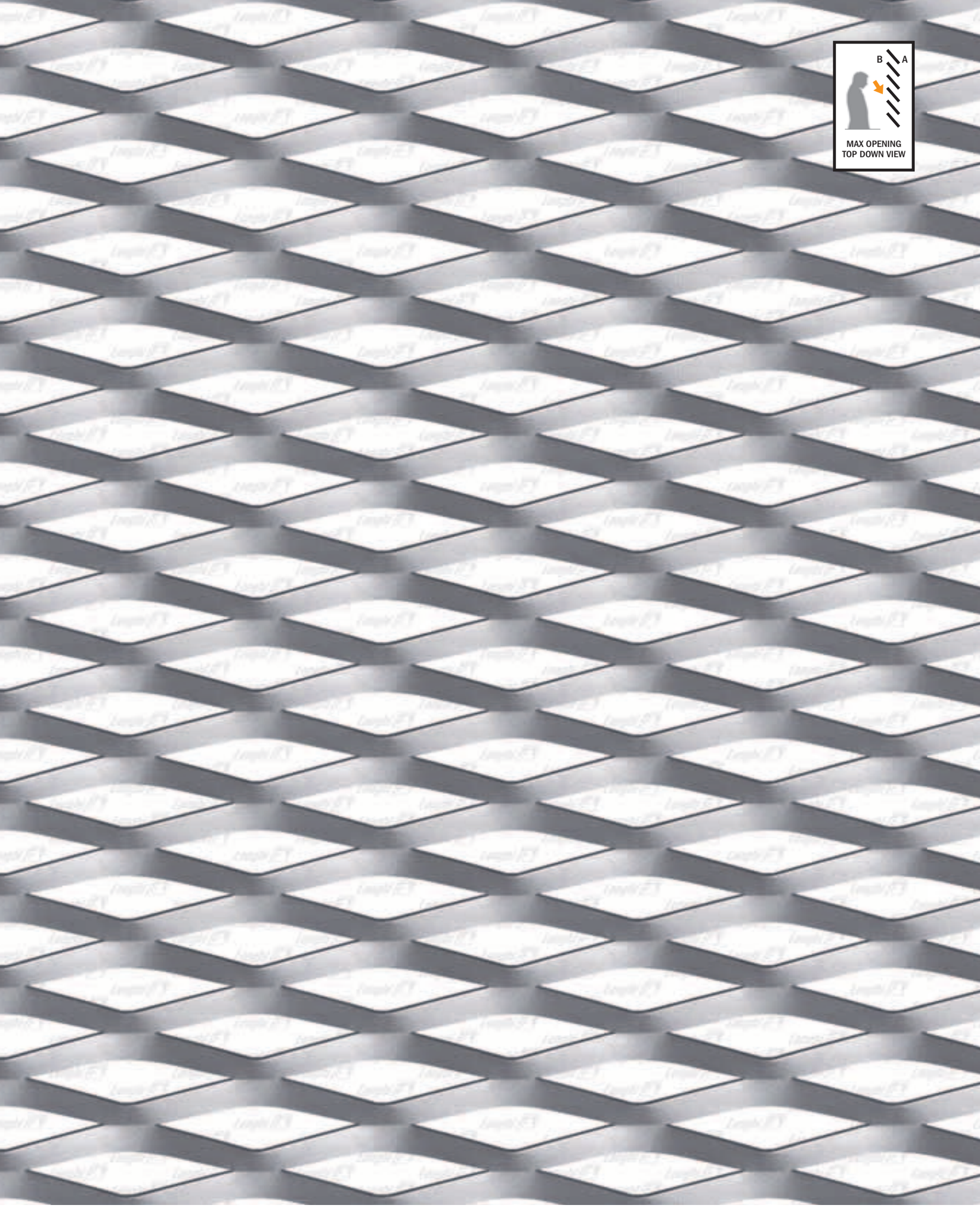


Airport

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

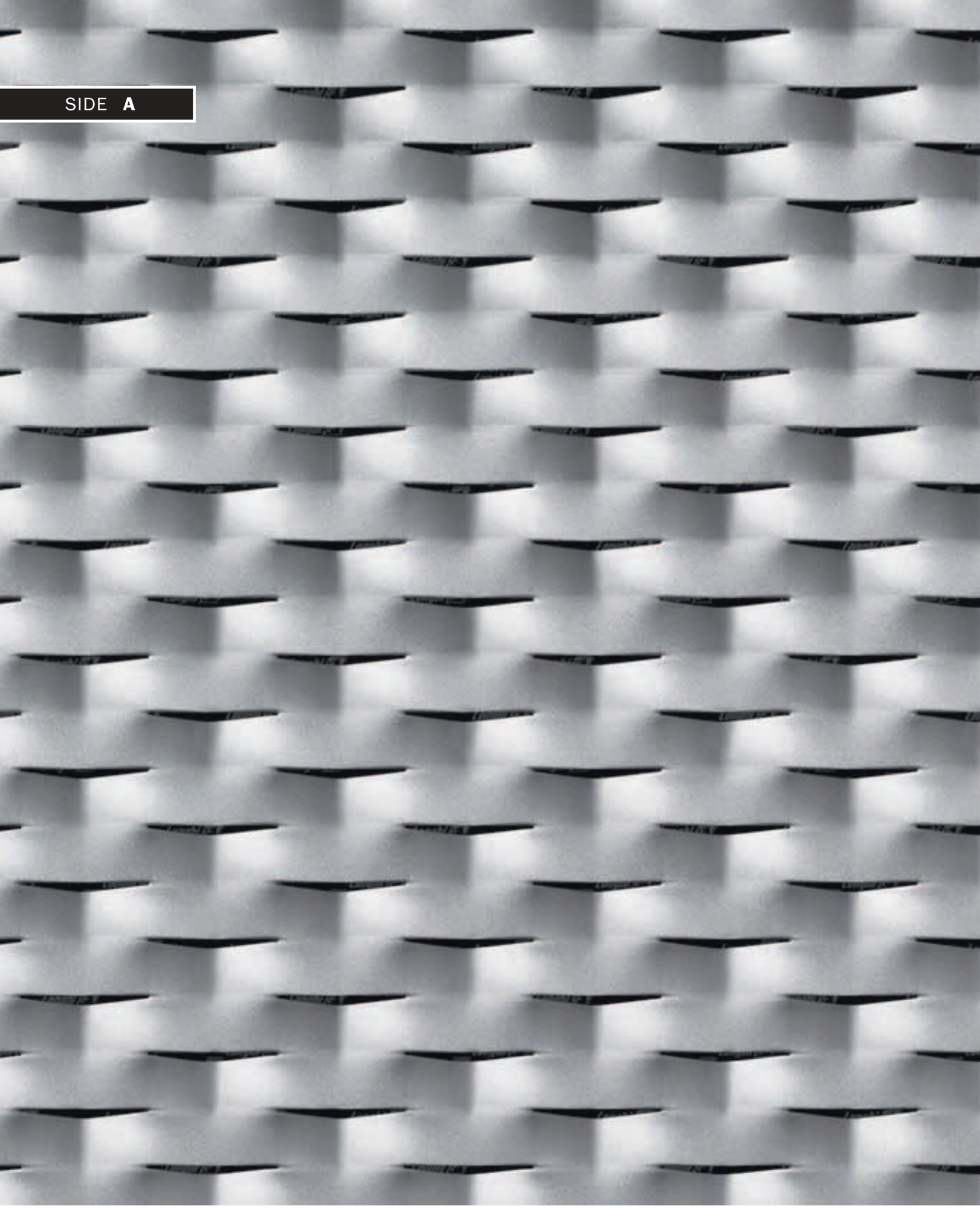
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t





Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 11 (~) ◆	42 (~)
R 62,5 x 20 (25,5) - 9,1 x **2,0**	11,00	3,60			

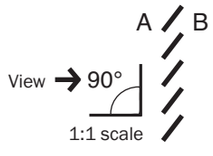
◆ Framing profiles: see page 192



Privacy

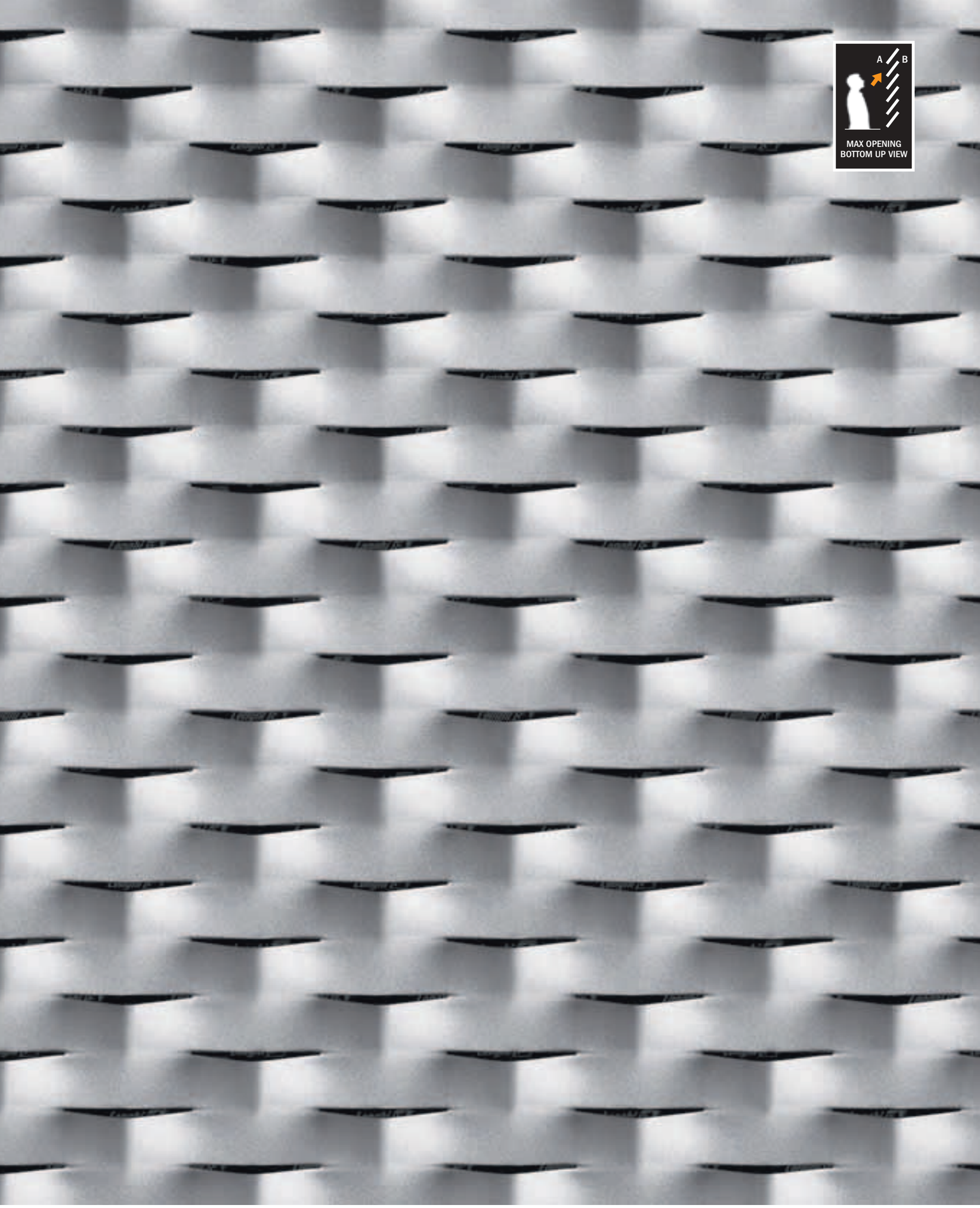
R 62,5 x 20 (29) - 14 x t

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



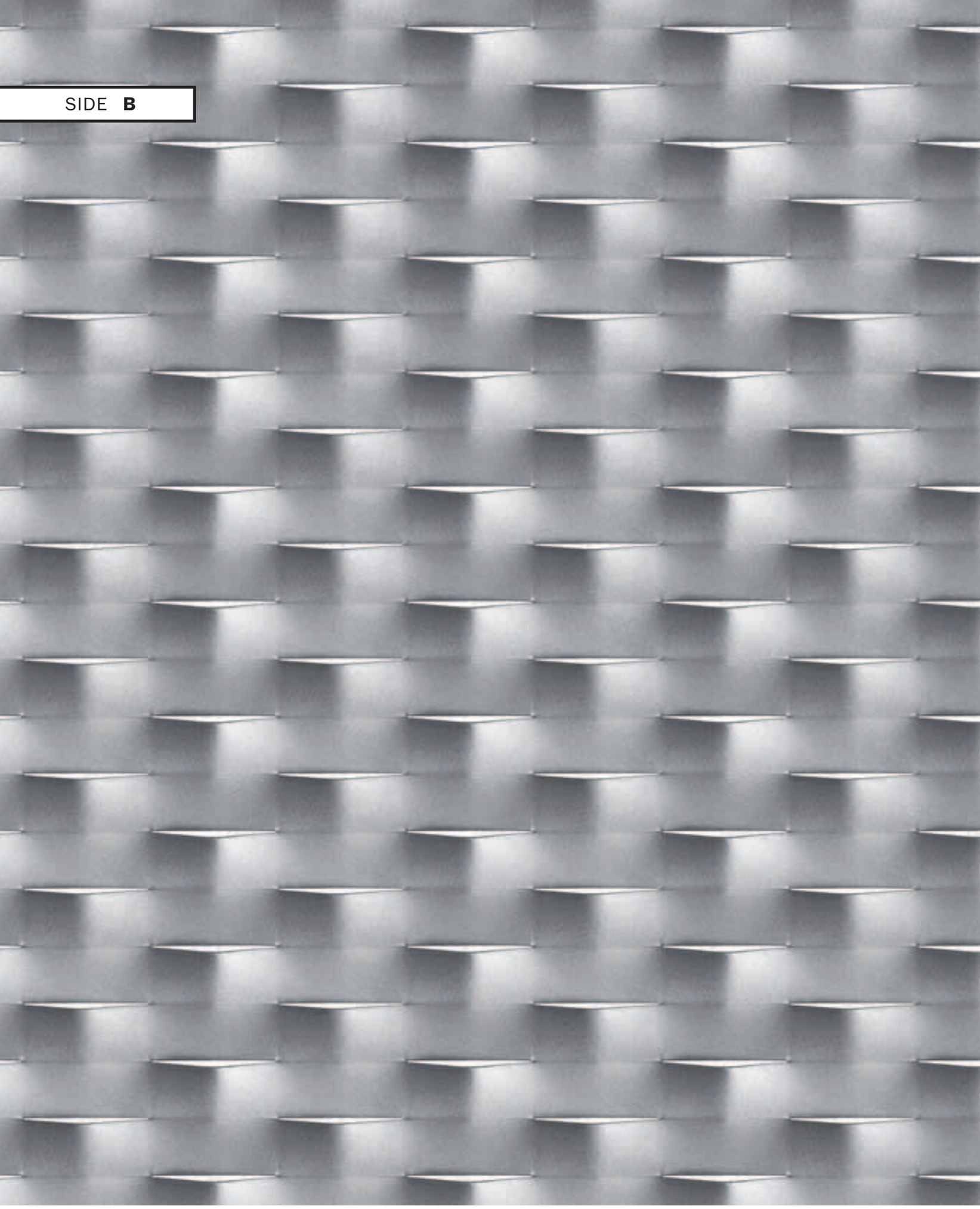
Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 8 (~) ◆	5,3 (~)
R 62,5 x 20 (29) - 14 x **2,0**	15,60	5,20			

◆ Framing profiles: see page 192



Privacy

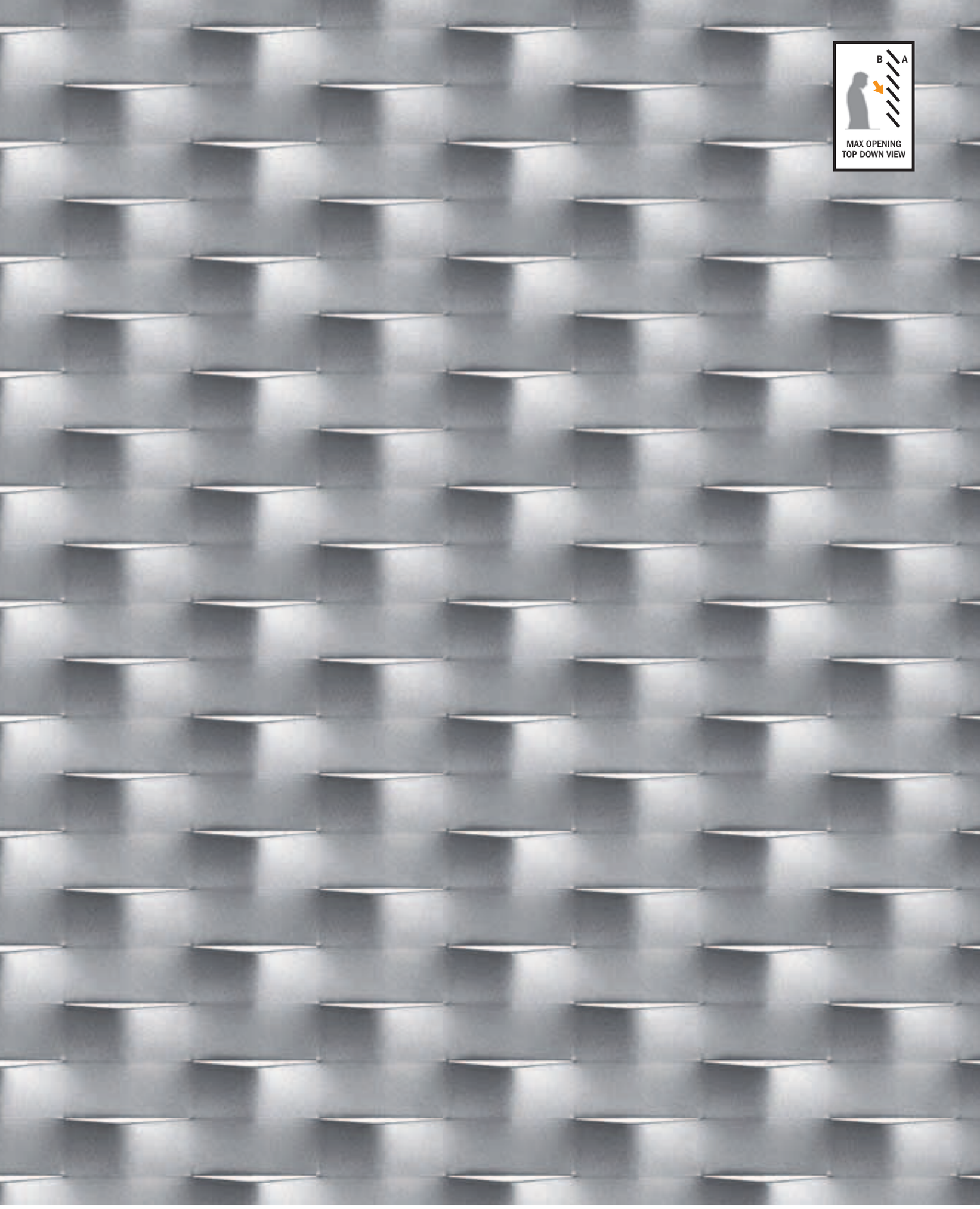
R 62,5 x 20 (29) - 14 x t

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

B A

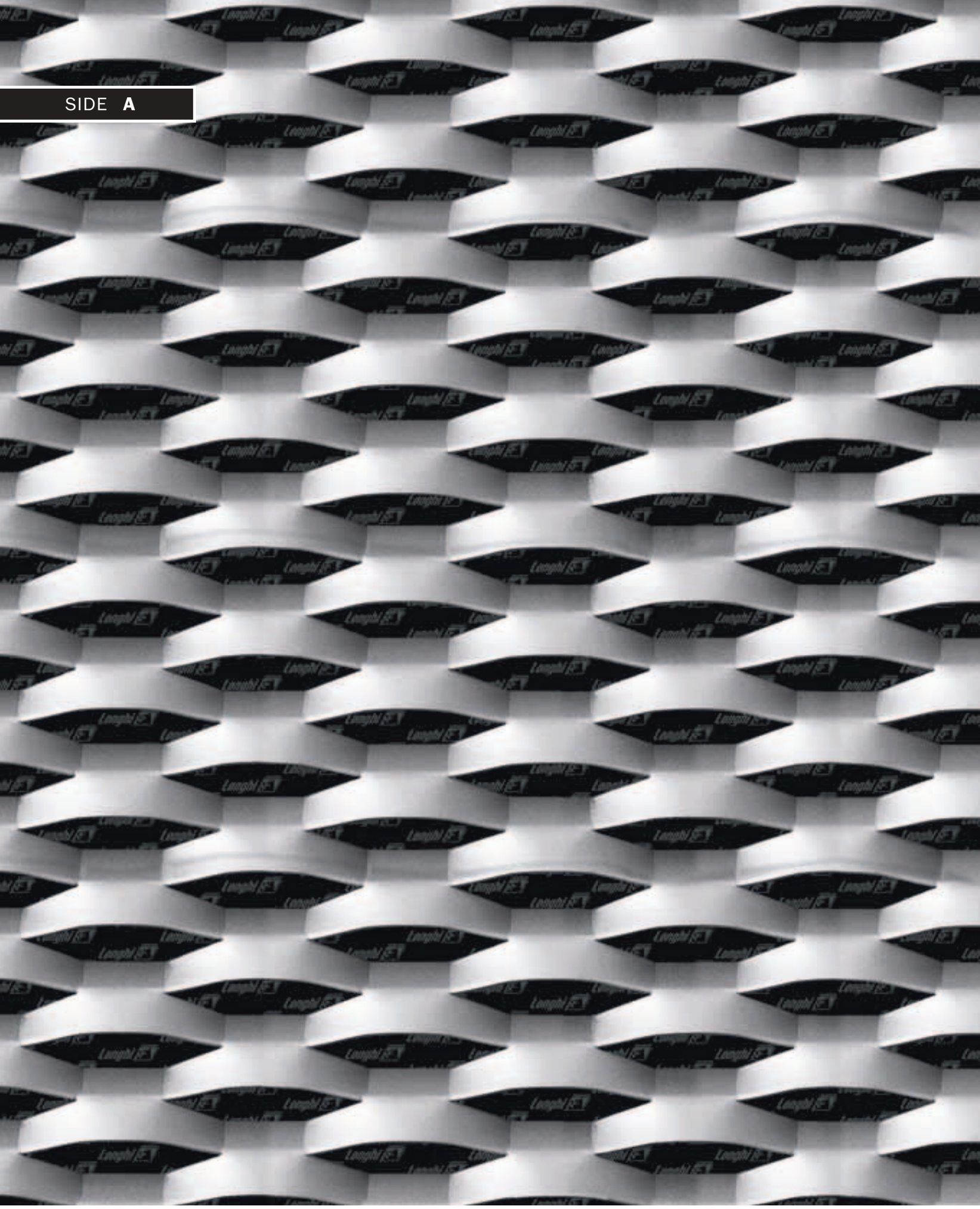
View → 90°

1:1 scale



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 8 (~) ◆	5,3 (~)
R 62,5 x 20 (29) - 14 x **2,0**	15,60	5,20			

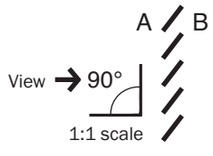
◆ Framing profiles: see page 192

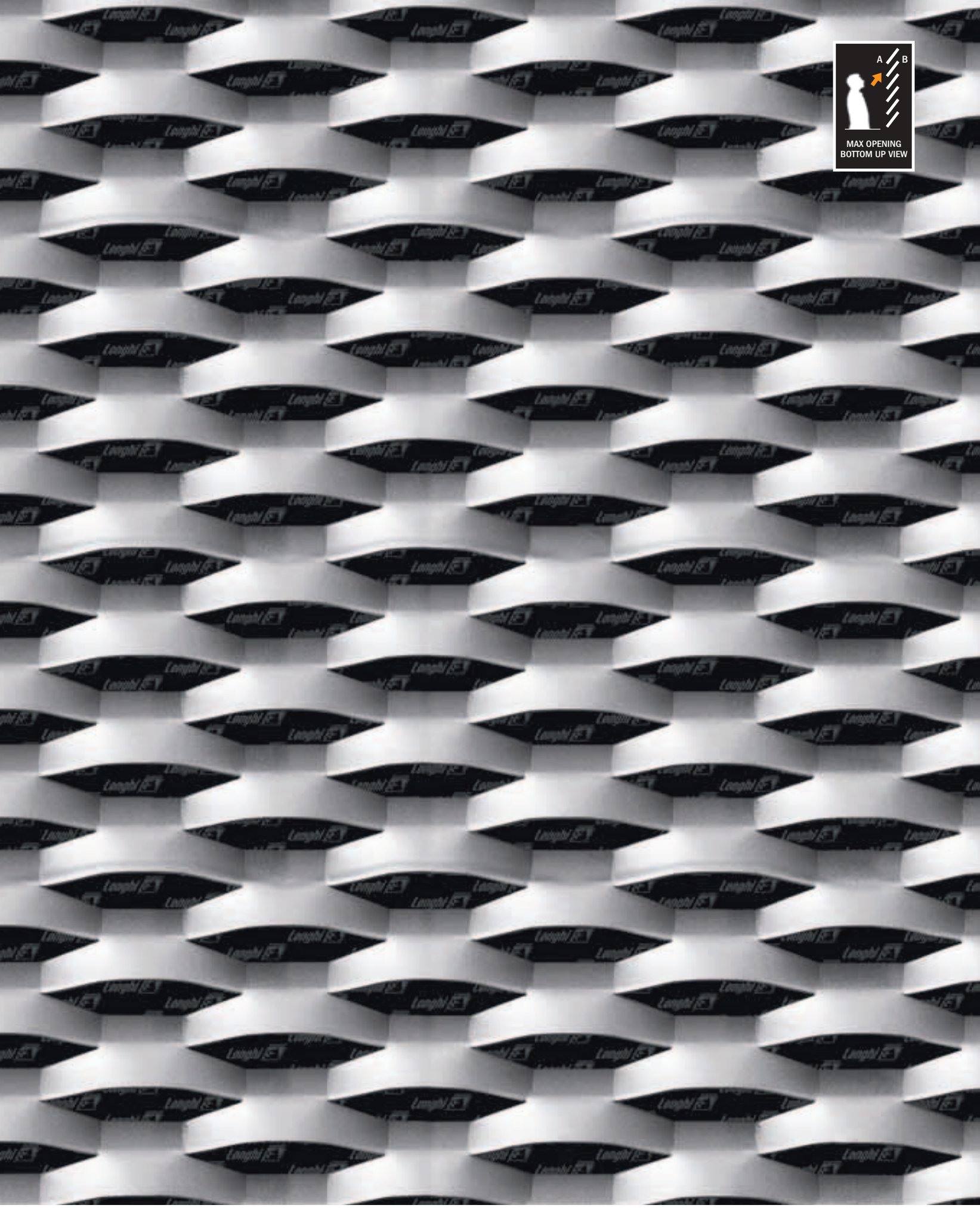


Esedra

E 70 x 26 (26) - 10 x t

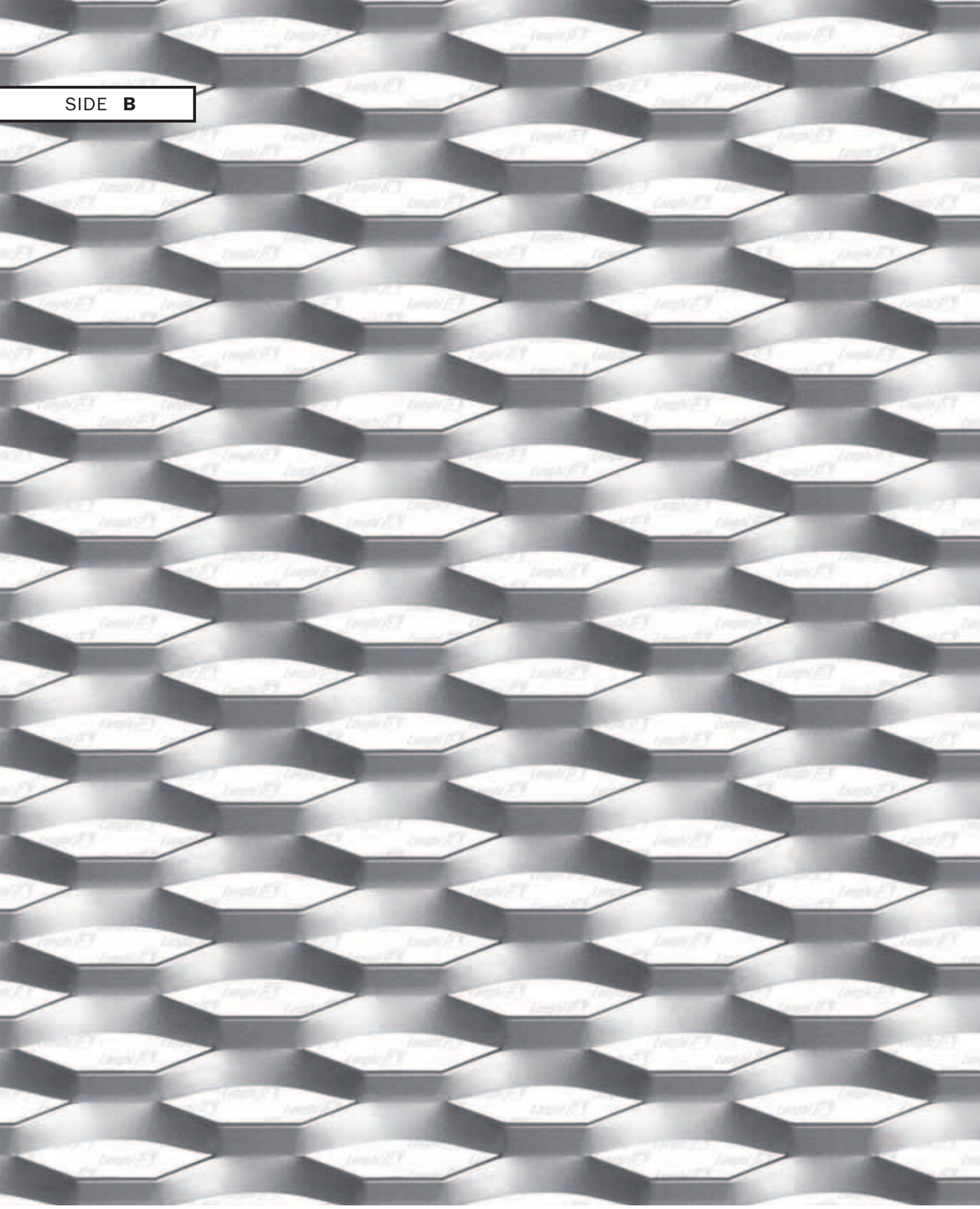
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t





Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 11 (~) ◆	29 (~)
E 70 x 26 (26) - 10 x **2,0**	12,00	4,20			

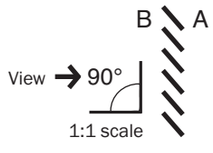
◆ Framing profiles: see page 192

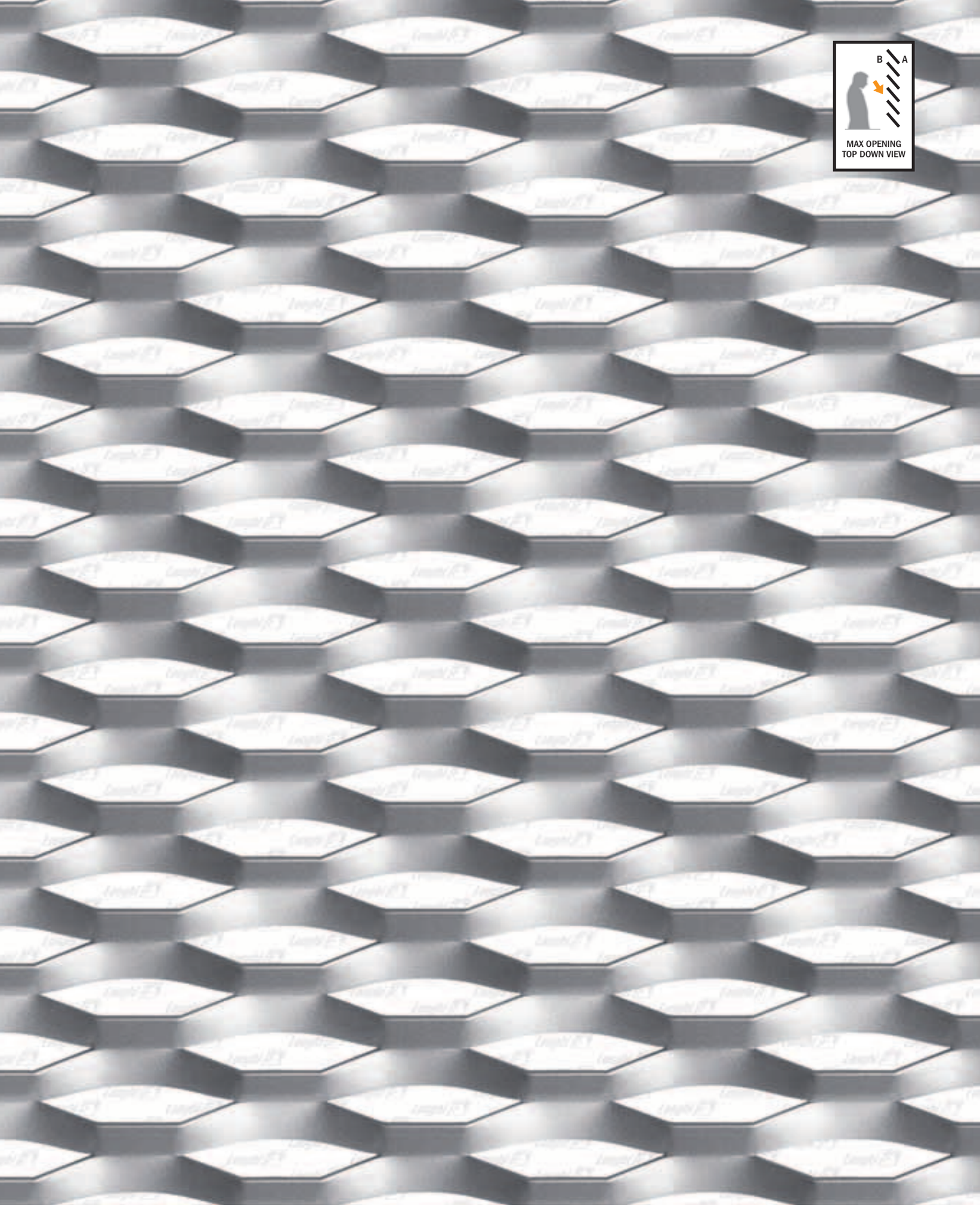


Esedra

E 70 x 26 (26) - 10 x t

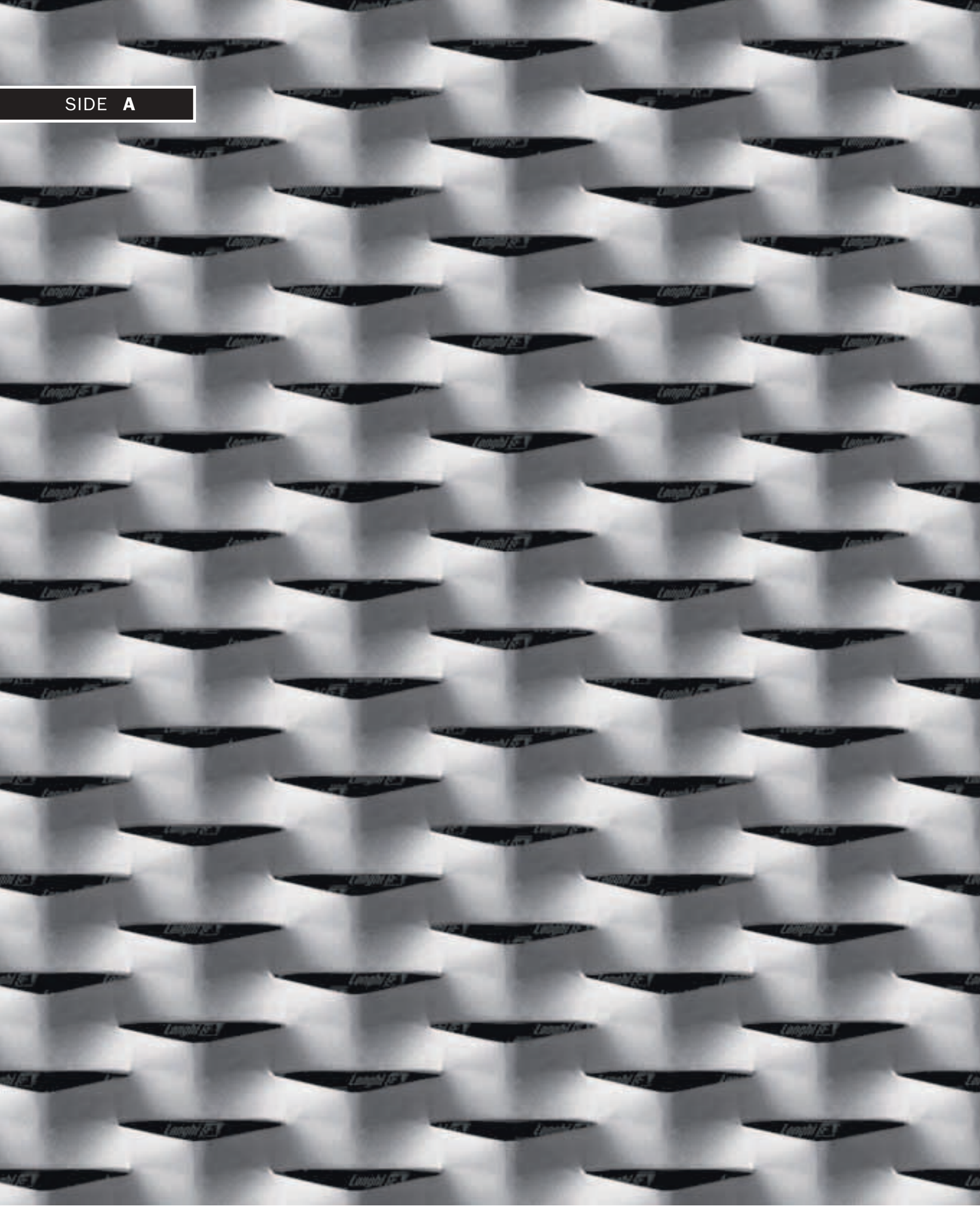
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t





Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 11 (~) ◆	29 (~)
E 70 x 26 (26) - 10 x **2,0**	12,00	4,20			

◆ Framing profiles: see page 192



Idea

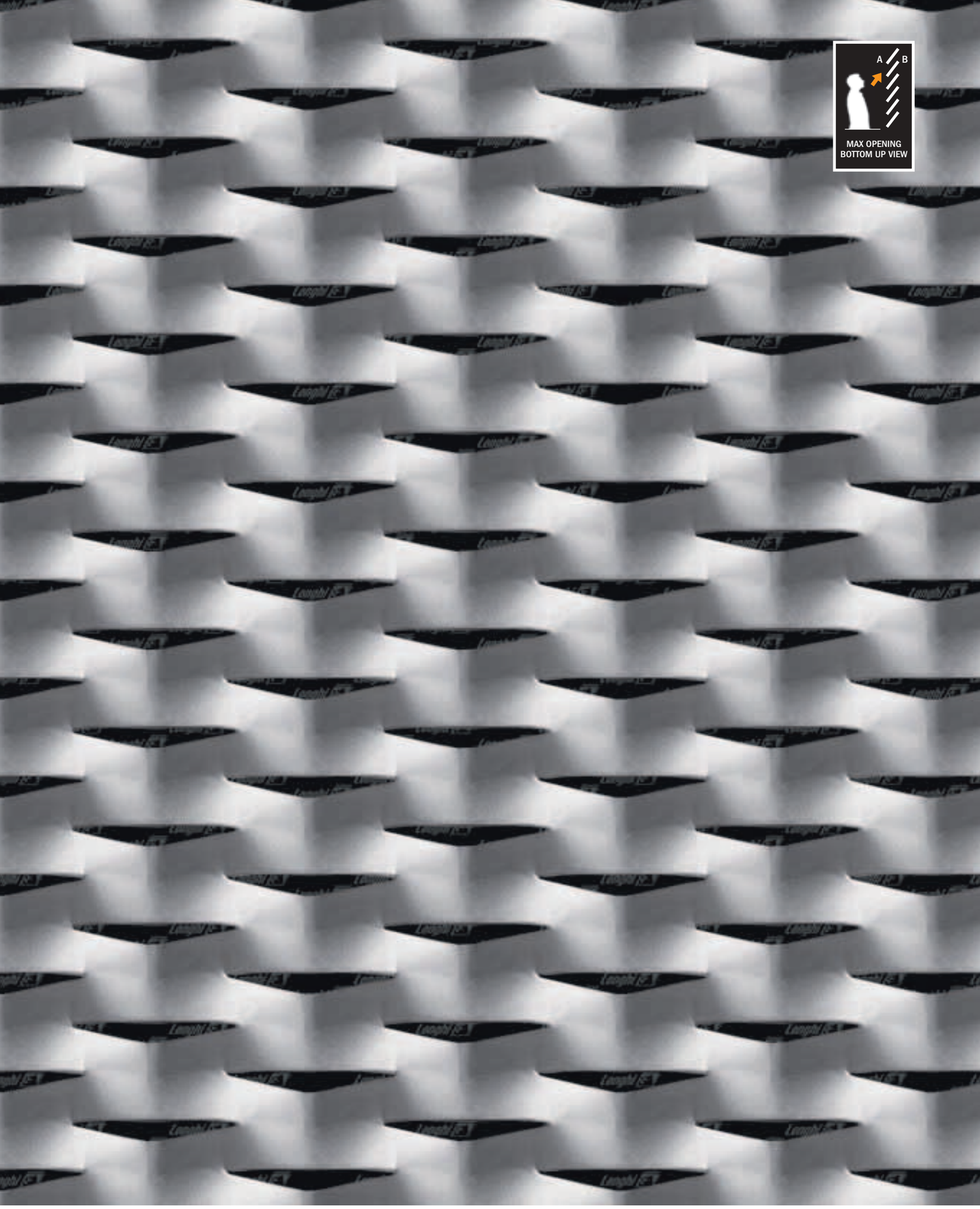
R 76 x 31 (24) - 11 x t

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

A B

View → 90°

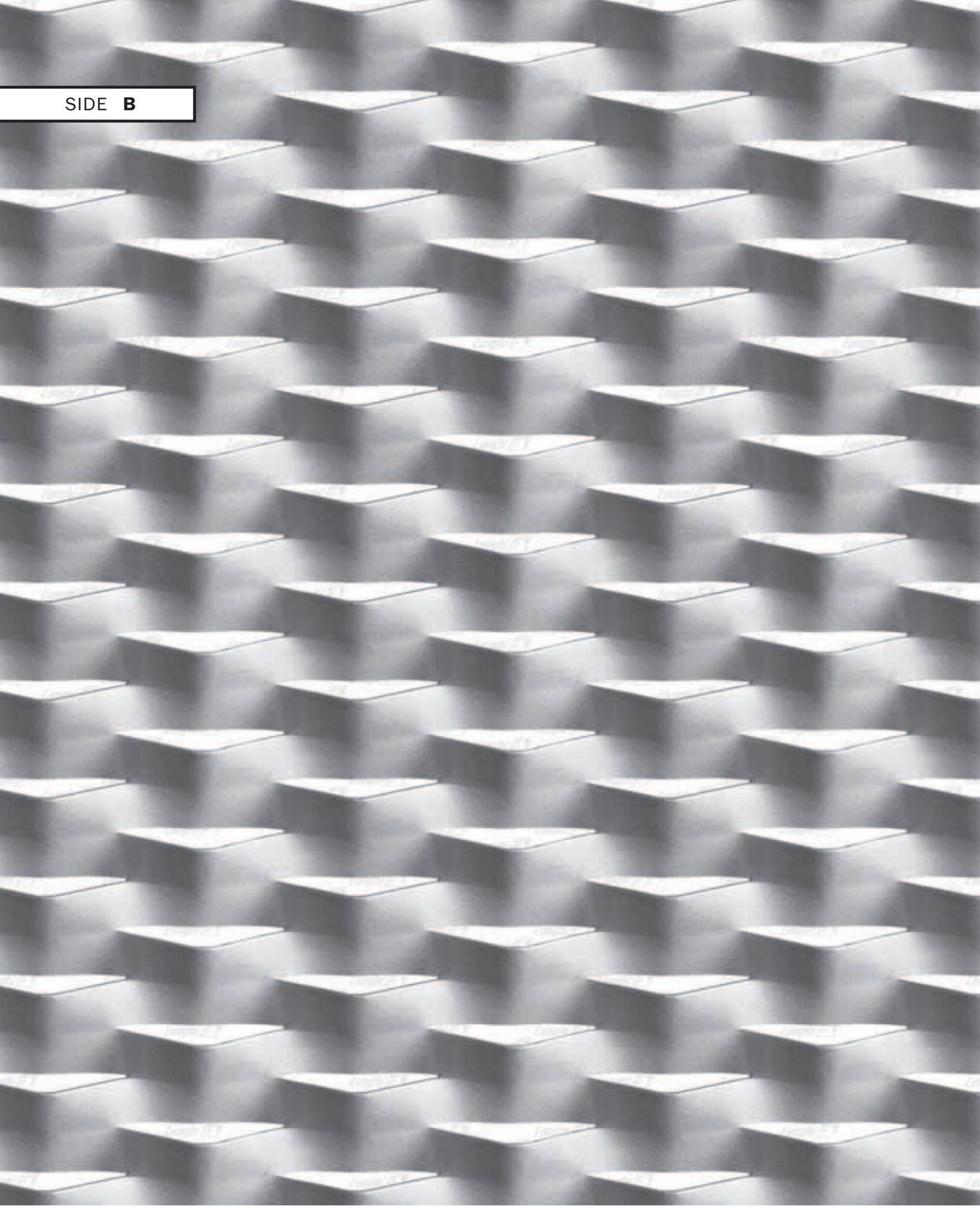
1:1 scale



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 11 (~) ◆	13,3 (~)
R 76 x 31 (24) - 11 x **2,0**	14,10	4,70			

◆ Framing profiles: see page 192

SIDE **B**



Idea

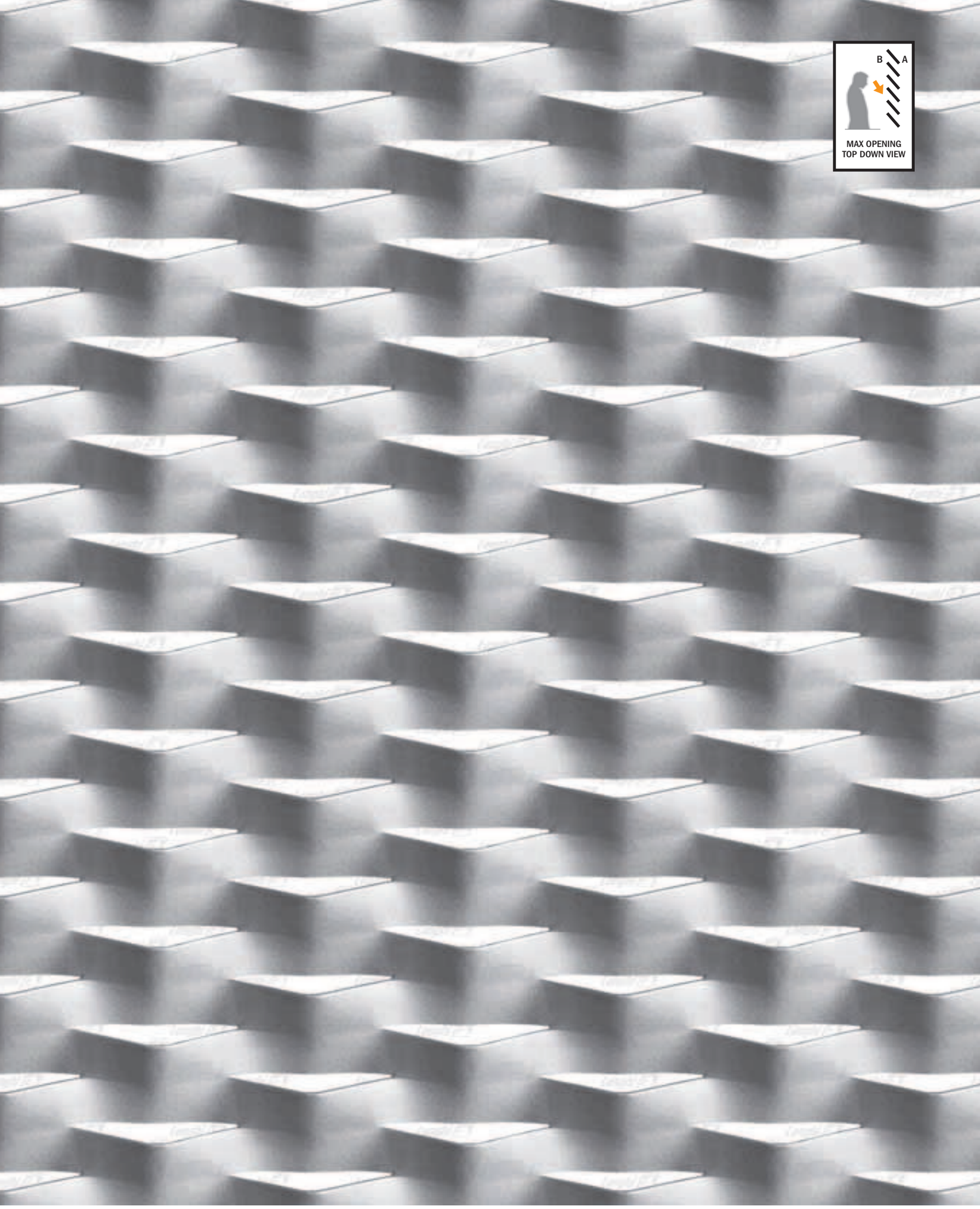
R 76 x 31 (24) - 11 x t

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

B A

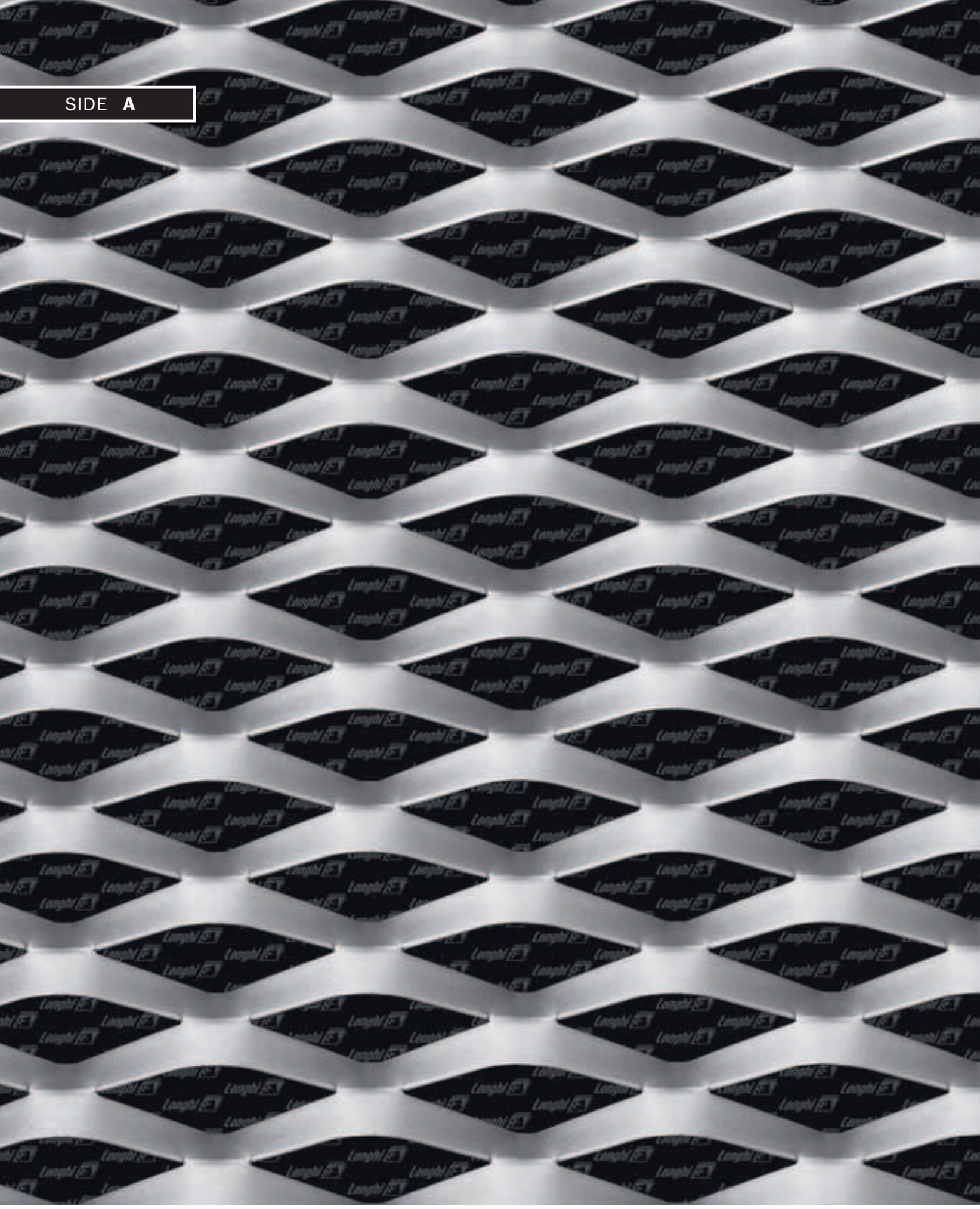
View → 90°

1:1 scale



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 11 (~) ◆	13,3 (~)
R 76 x 31 (24) - 11 x **2,0**	14,10	4,70			

◆ Framing profiles: see page 192



Gate

R 76 x 31 (35) - 11 x t

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

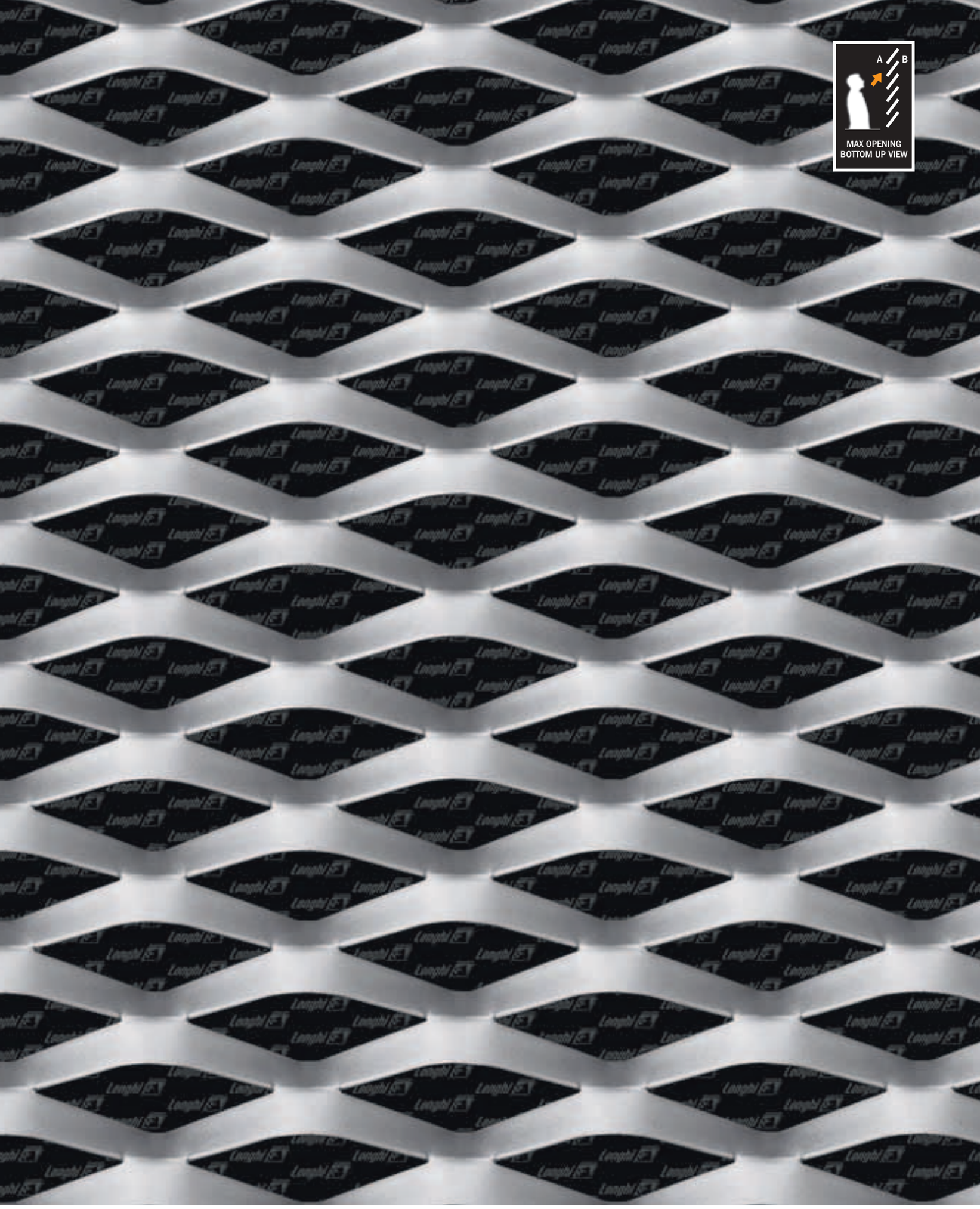
A B

View → 90°

1:1 scale

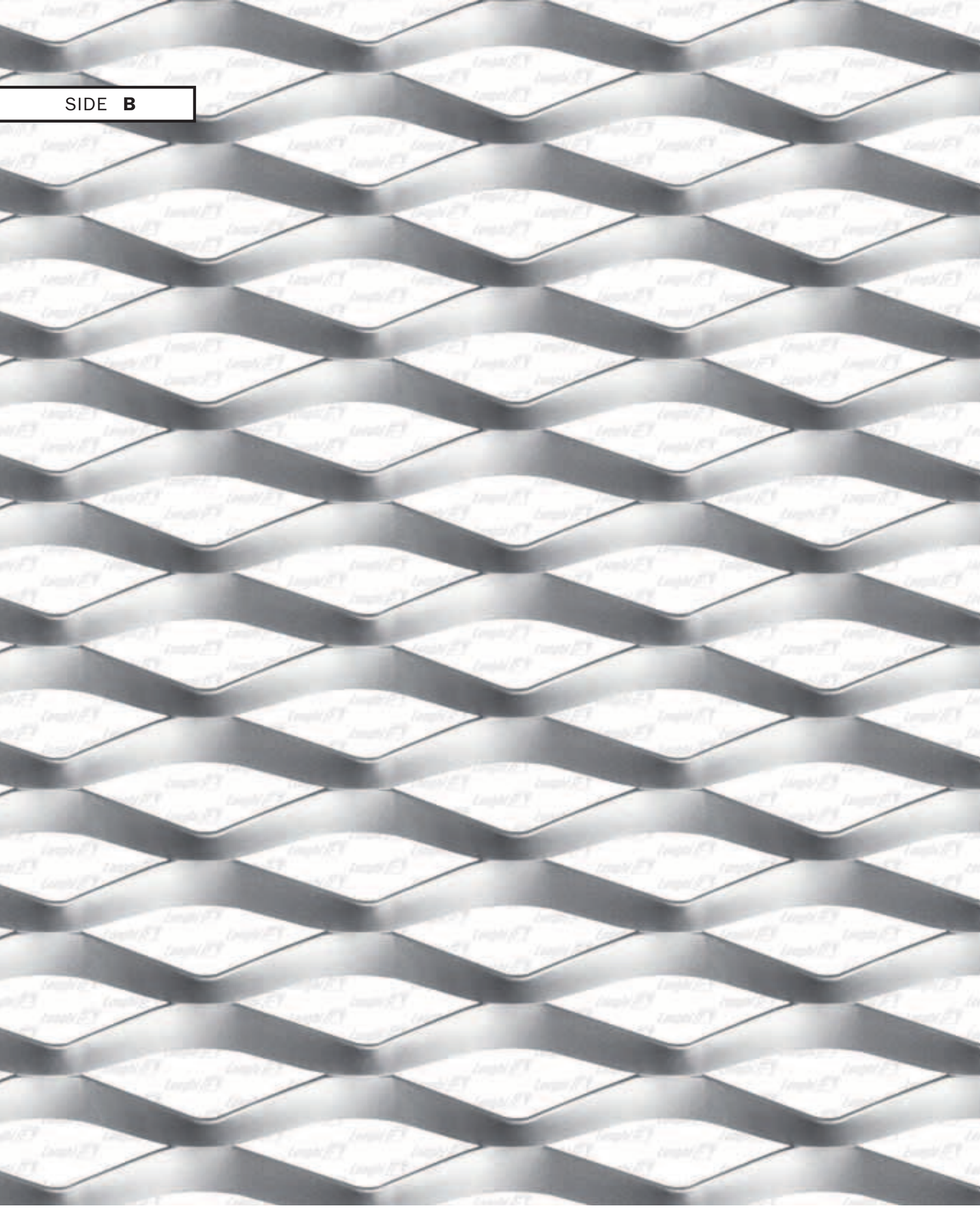
Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 14 (~) ◆	42 (~)
R 76 x 31 (35) - 11 x **2,0**	10,20	3,40			

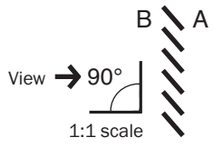
◆ Framing profiles: see page 192



Gate

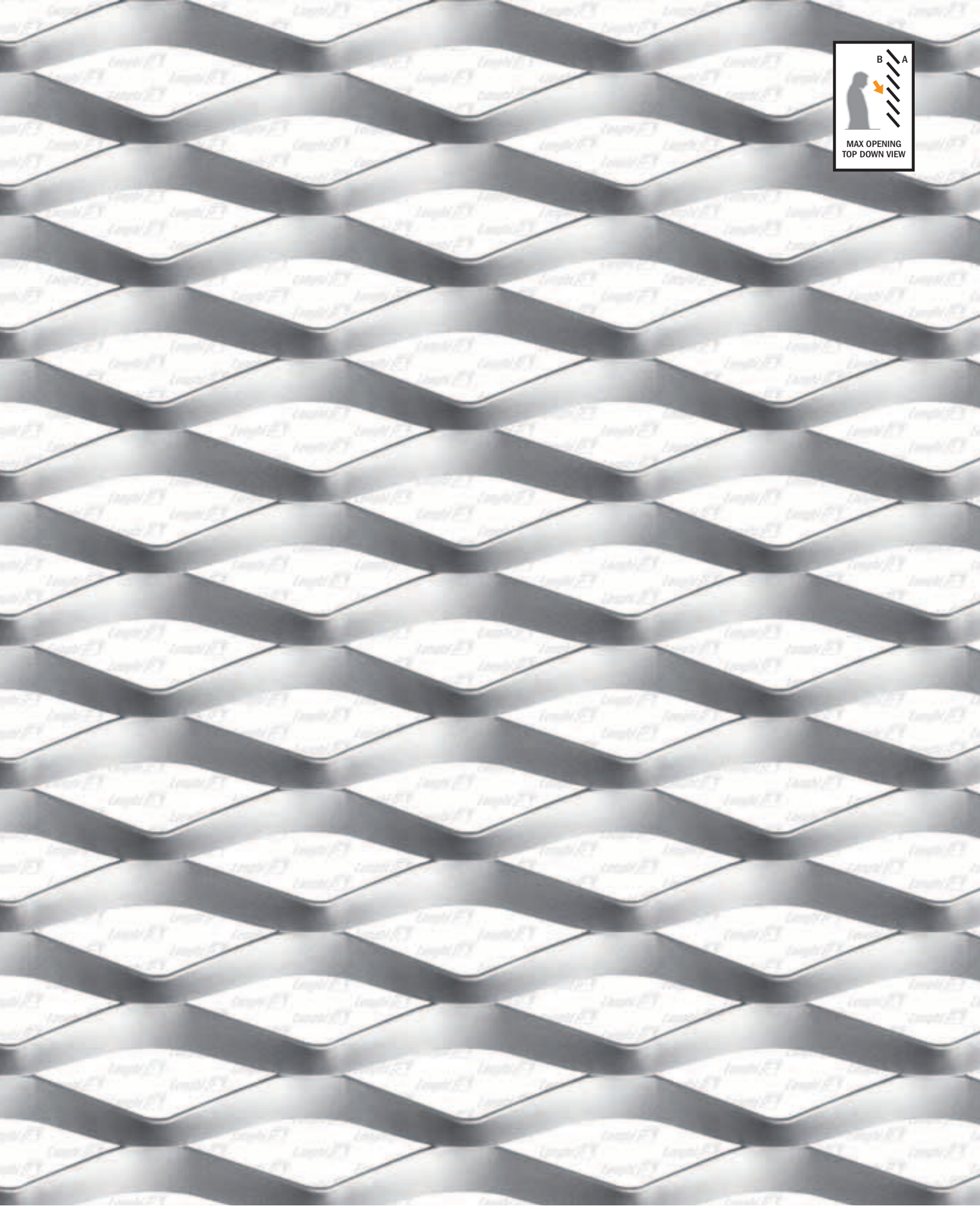
R 76 x 31 (35) - 11 x t

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



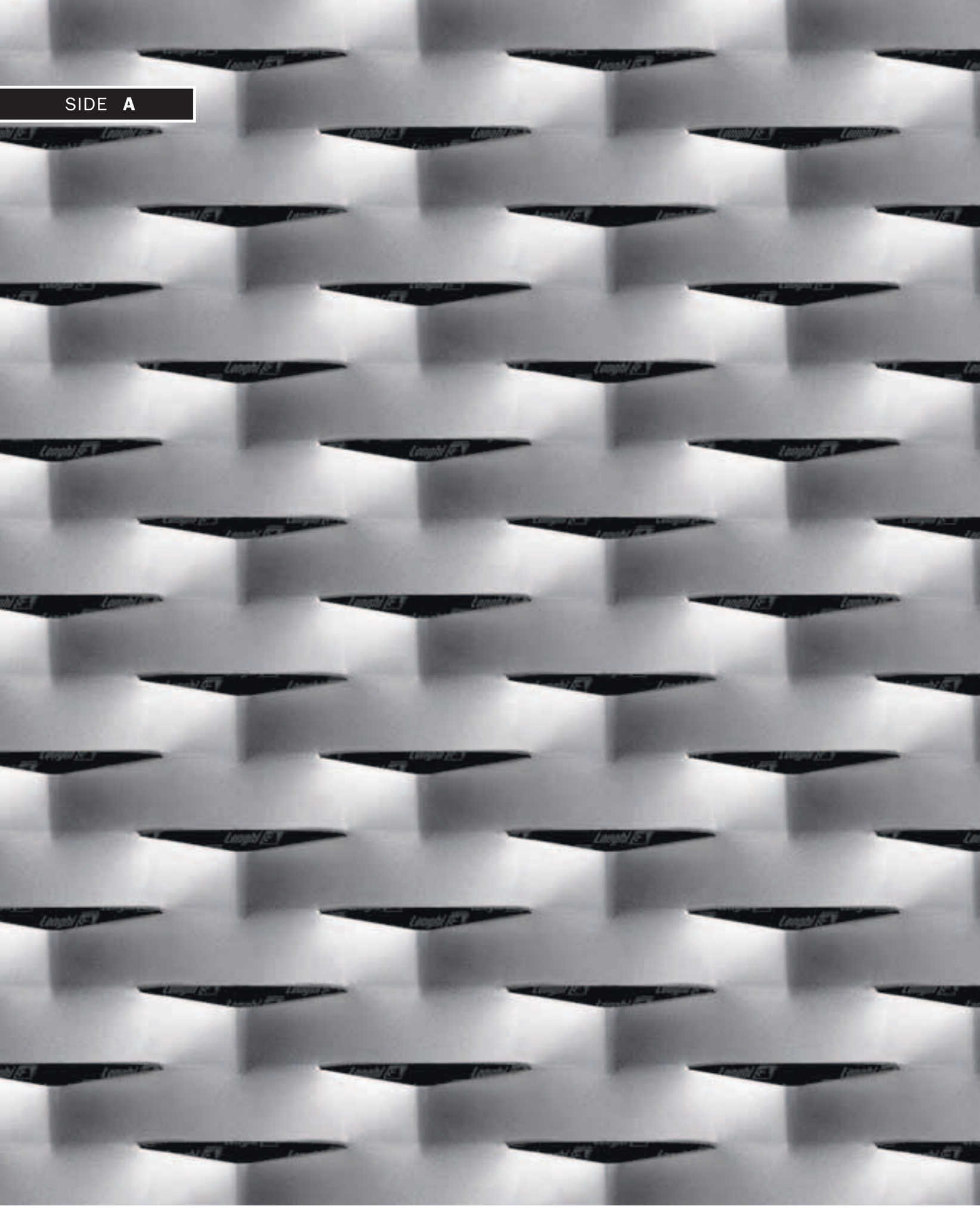
Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 14 (~) ◆	42 (~)
R 76 x 31 (35) - 11 x **2,0**	10,20	3,40			

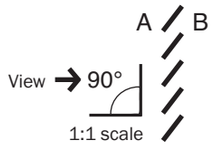
◆ Framing profiles: see page 192



Reserve

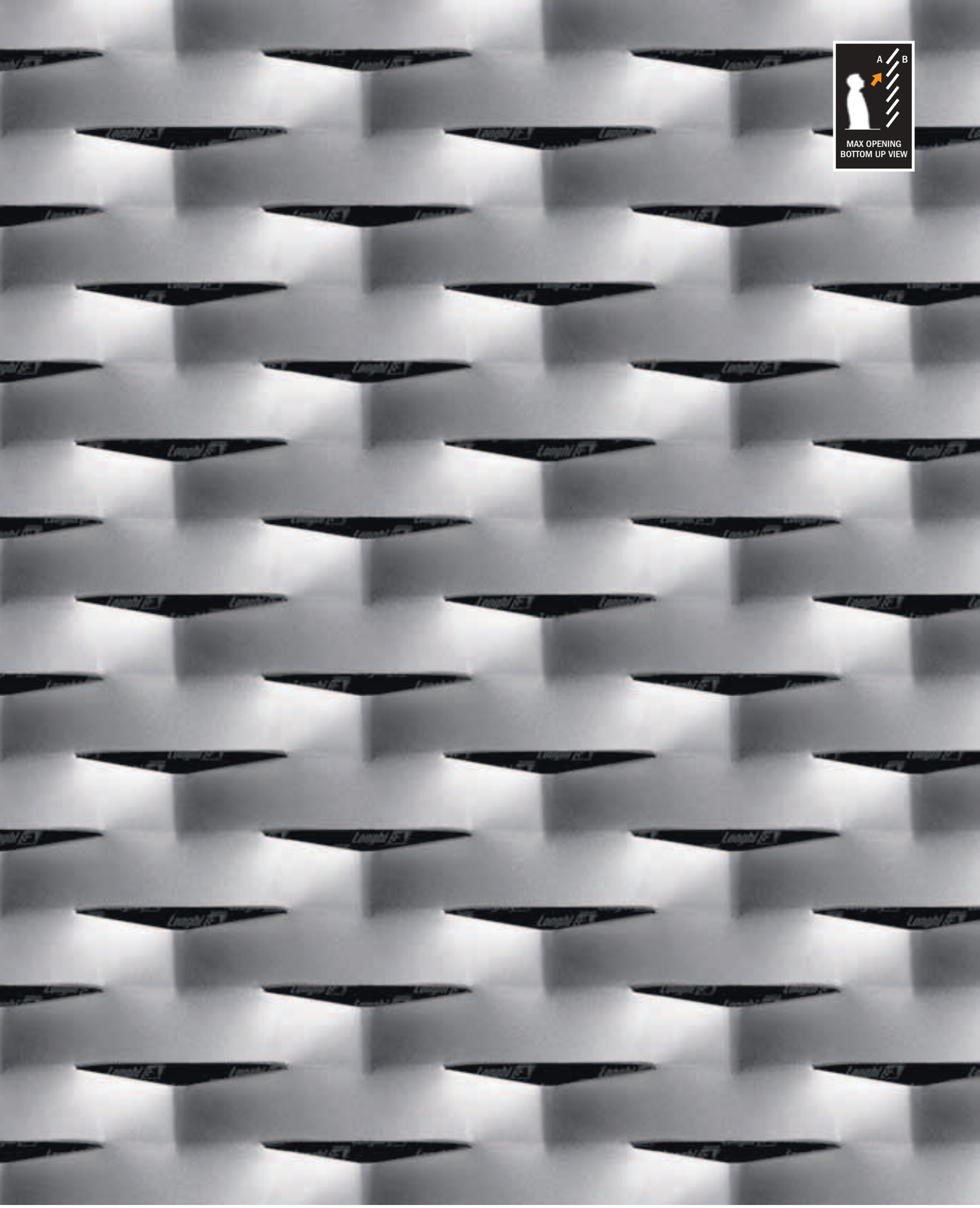
R 90 x 30 (38) - 18 x t

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



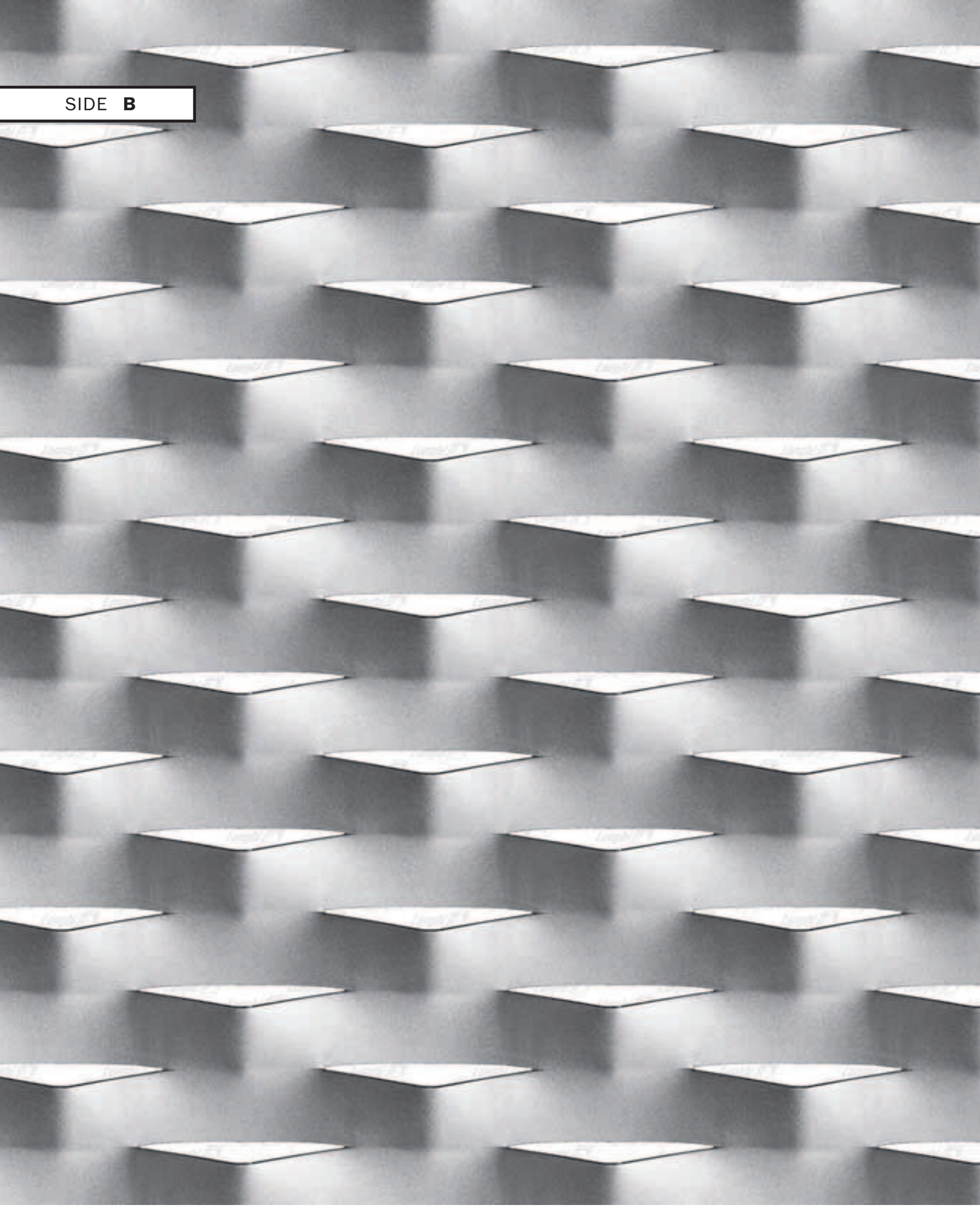
Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 13 (~) ◆	10 (~)
R 90 x 30 (38) - 18 x **2,0**	14,60	4,80			

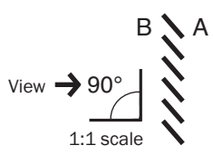
◆ Framing profiles: see page 192



Reserve

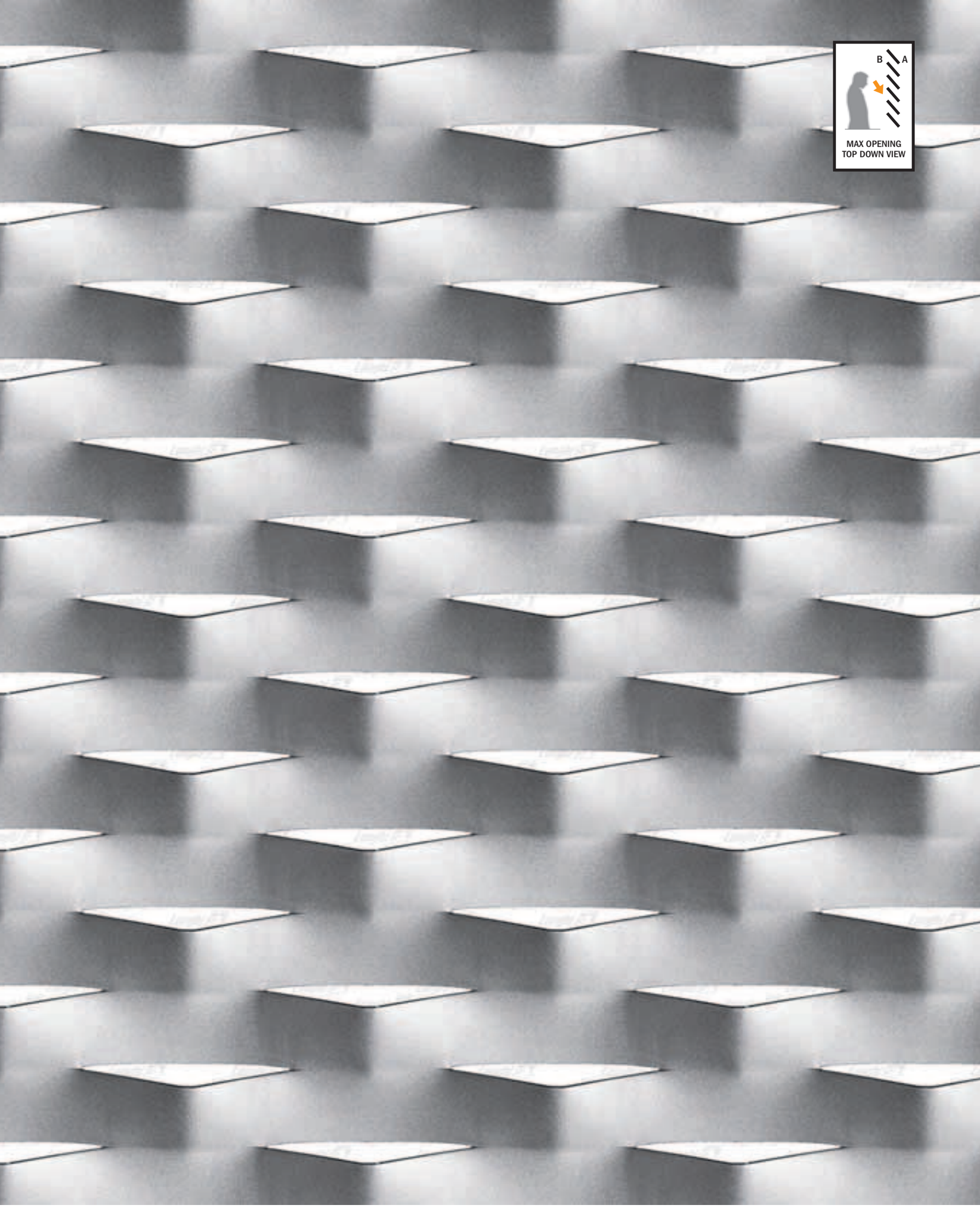
R 90 x 30 (38) - 18 x t

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



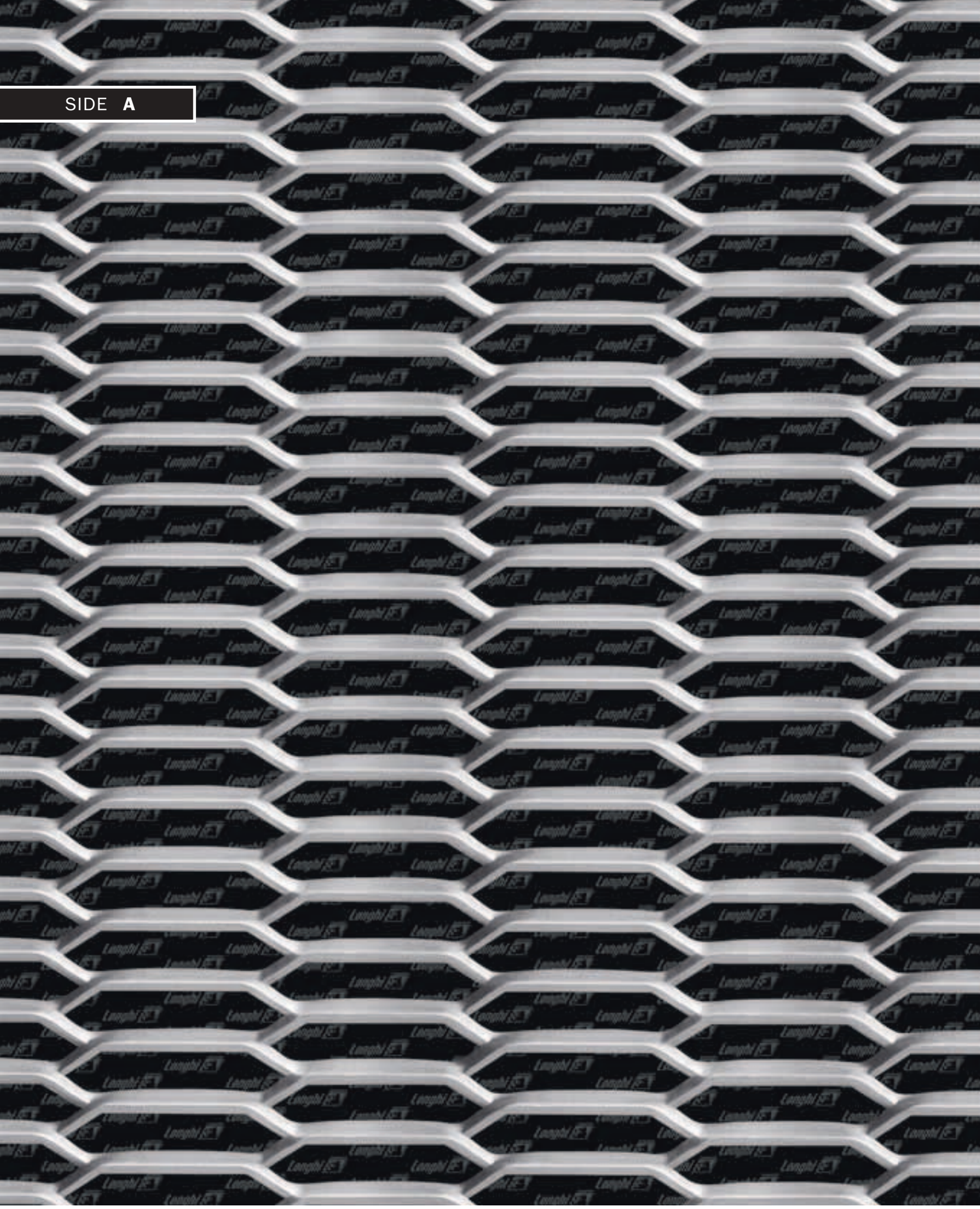
Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 13 (~) ◆	10 (~)
R 90 x 30 (38) - 18 x **2,0**	14,60	4,80			

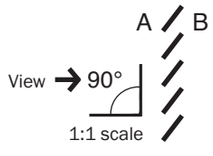
◆ Framing profiles: see page 192



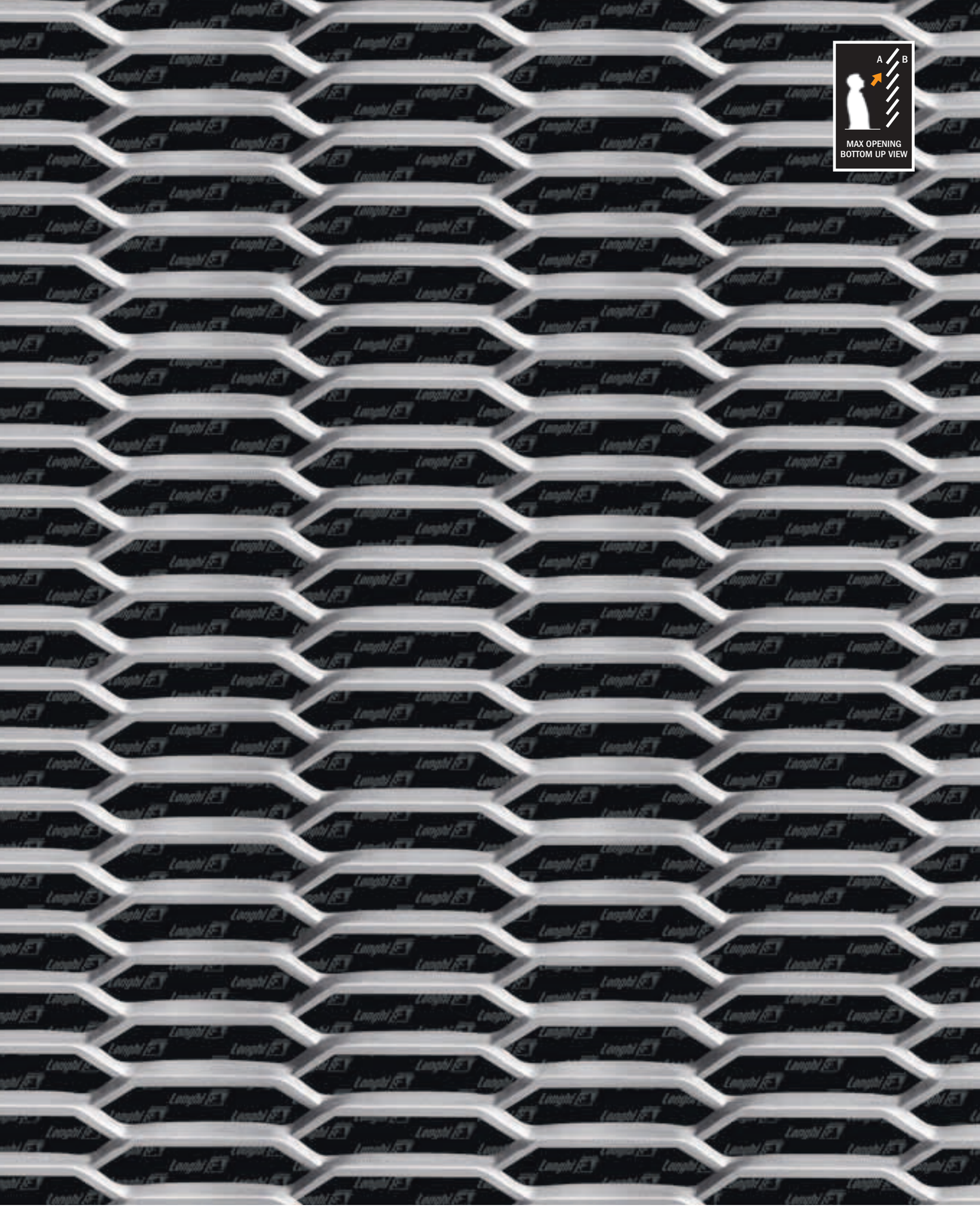
Greca

E 100 x 40 (15) - 4 x t

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



Fills protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 7 (~) ◆	52 (~)
E 100 x 40 (15) - 4 x **3,0**	12,50	4,30			

◆ Framing profiles: see page 192

Greca

E 100 x 40 (15) - 4 x t

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

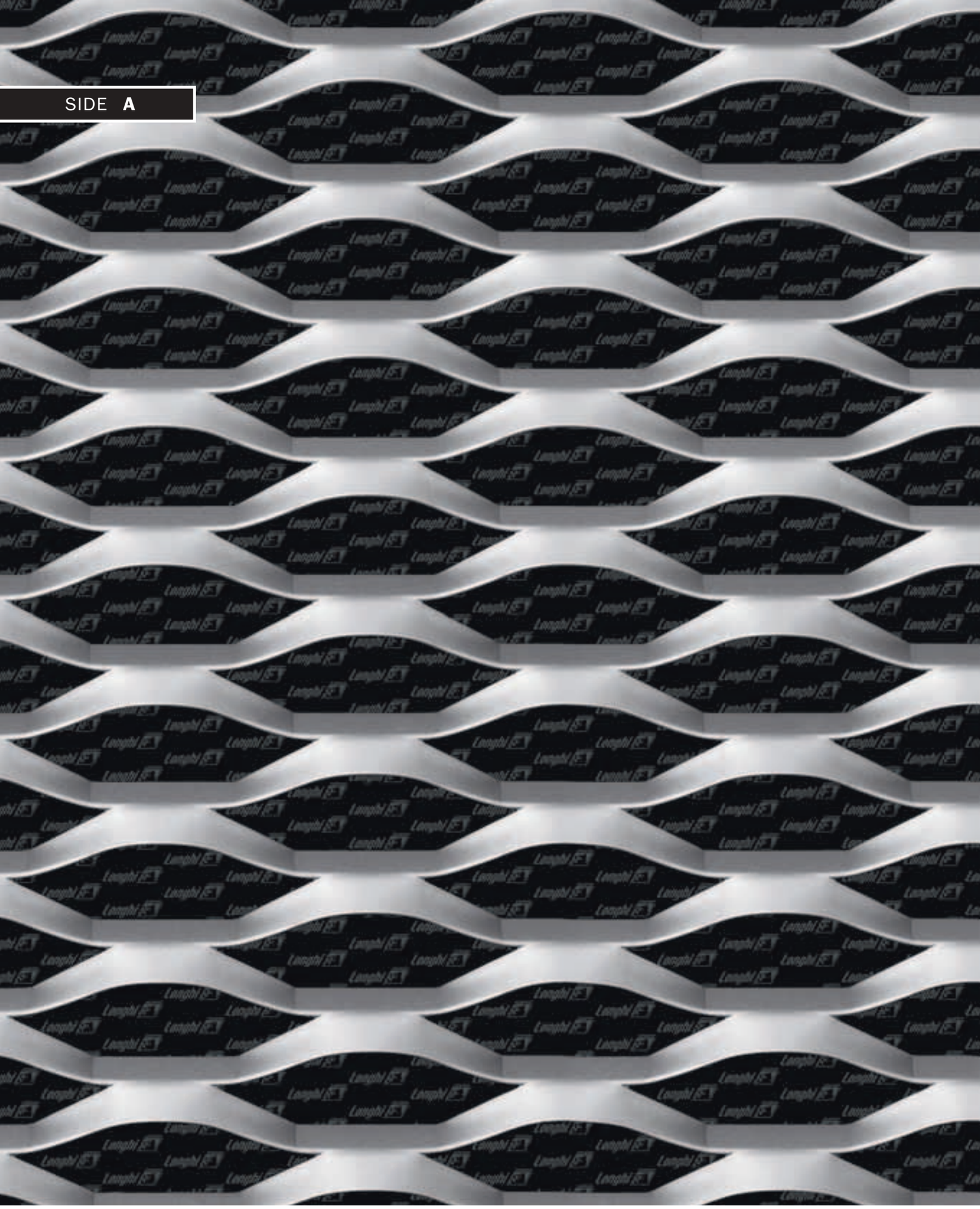
B A

View → 90°

1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 7 (~) ◆	52 (~)
E 100 x 40 (15) - 4 x **3,0**	12,50	4,30			

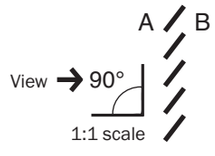
◆ Framing profiles: see page 192



Grafica

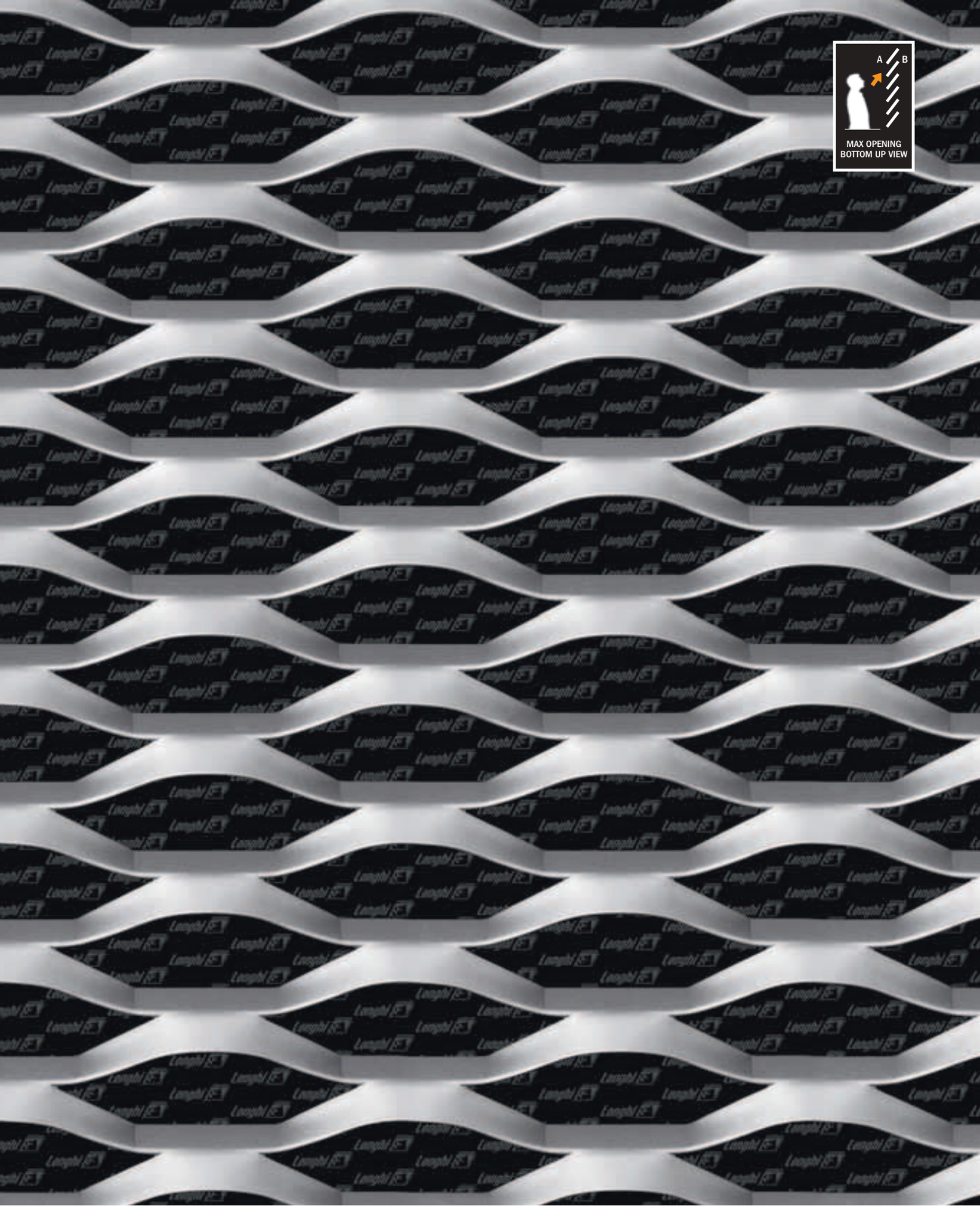
E 100 x 40 (34) - 10 x t

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



Fils

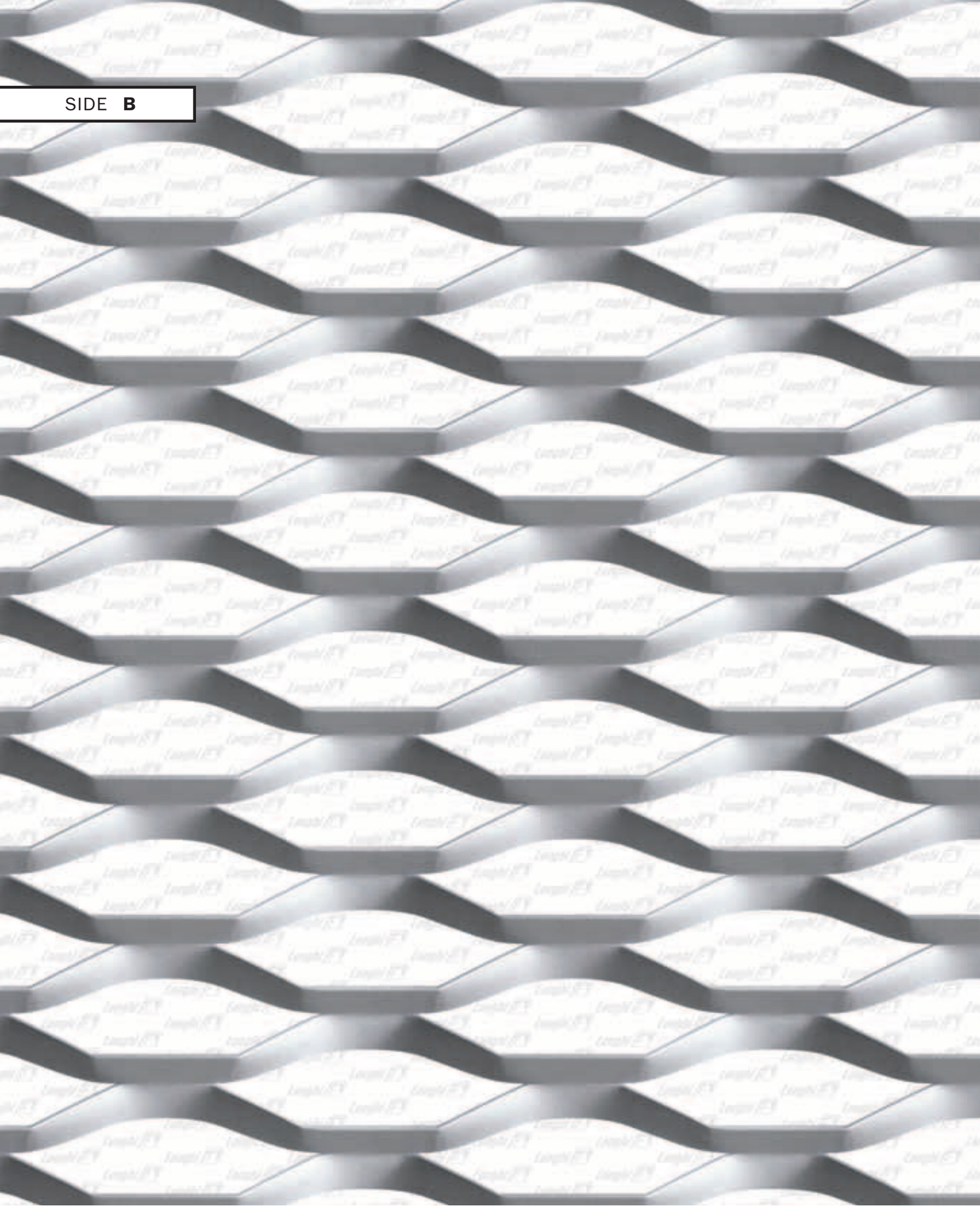
protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 15 (~) ◆	51,5 (~)
E 100 x 40 (34) - 10 x **2,0**	9,30	3,10			

◆ Framing profiles: see page 192

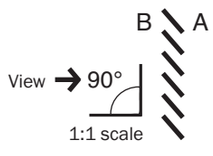
SIDE **B**

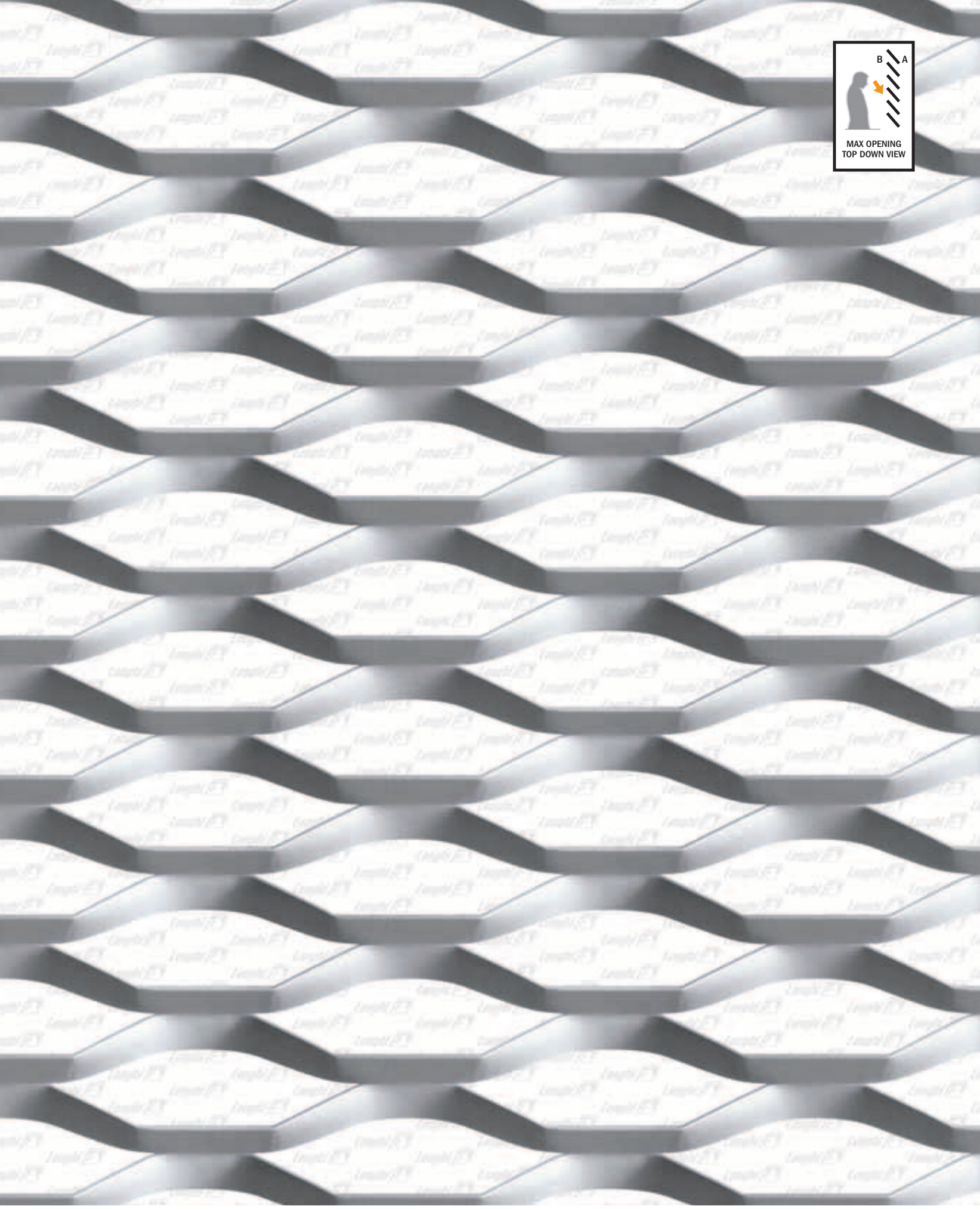


Grafica

E 100 x 40 (34) - 10 x t

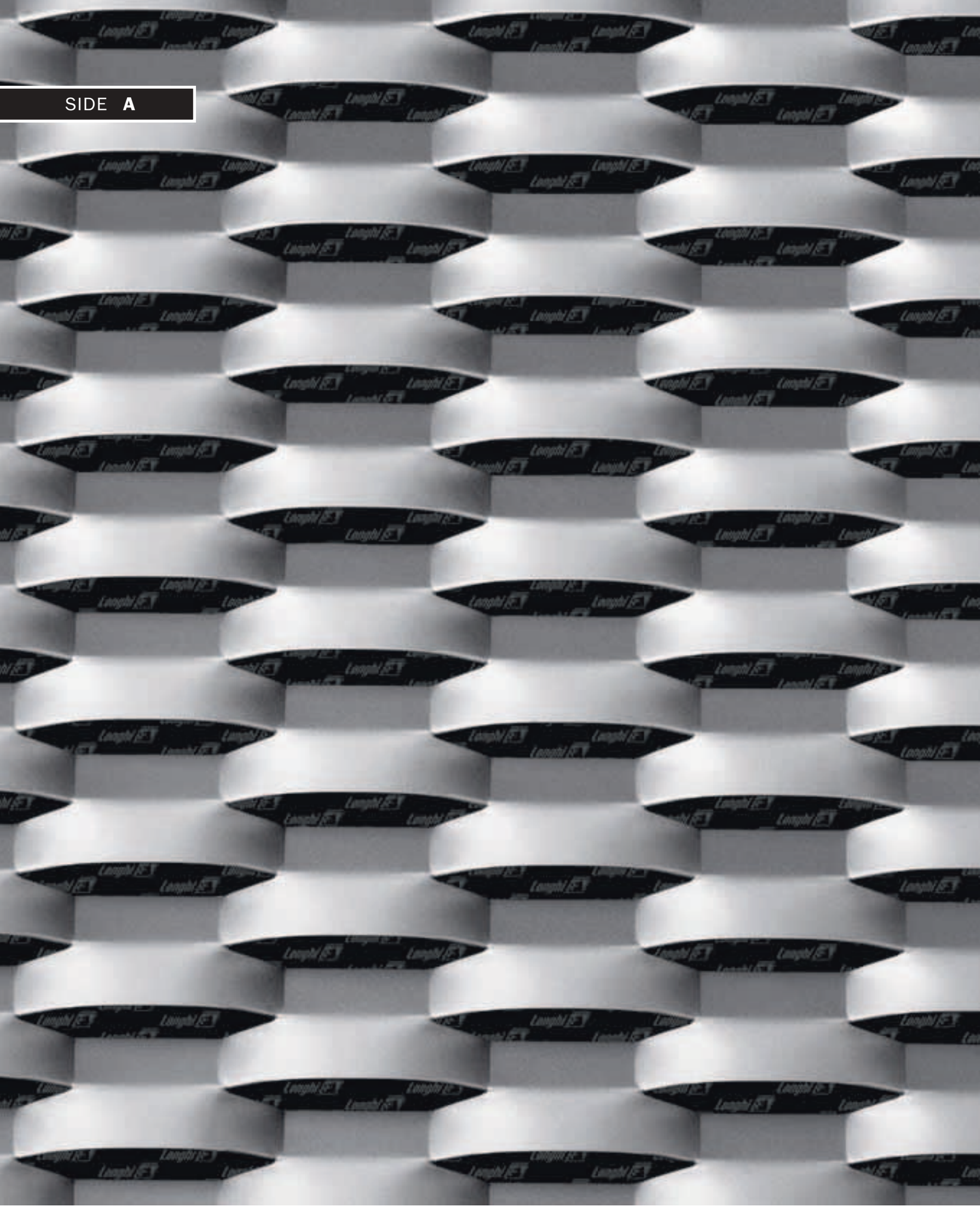
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t





Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 15 (~) ◆	51,5 (~)
E 100 x 40 (34) - 10 x **2,0**	9,30	3,10			

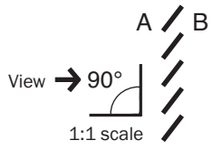
◆ Framing profiles: see page 192



Esperia

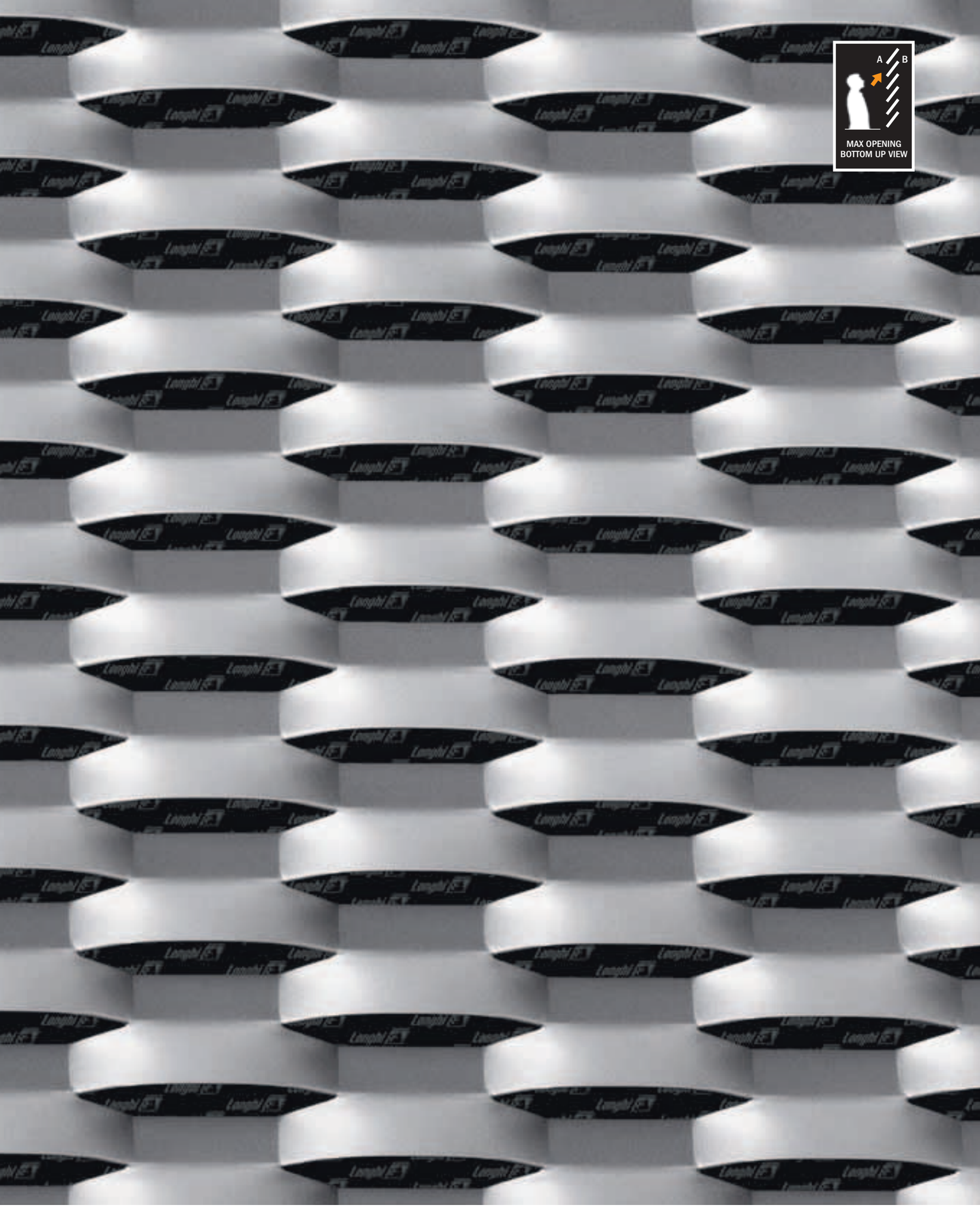
E 100 x 40 (34) - 15 x t

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



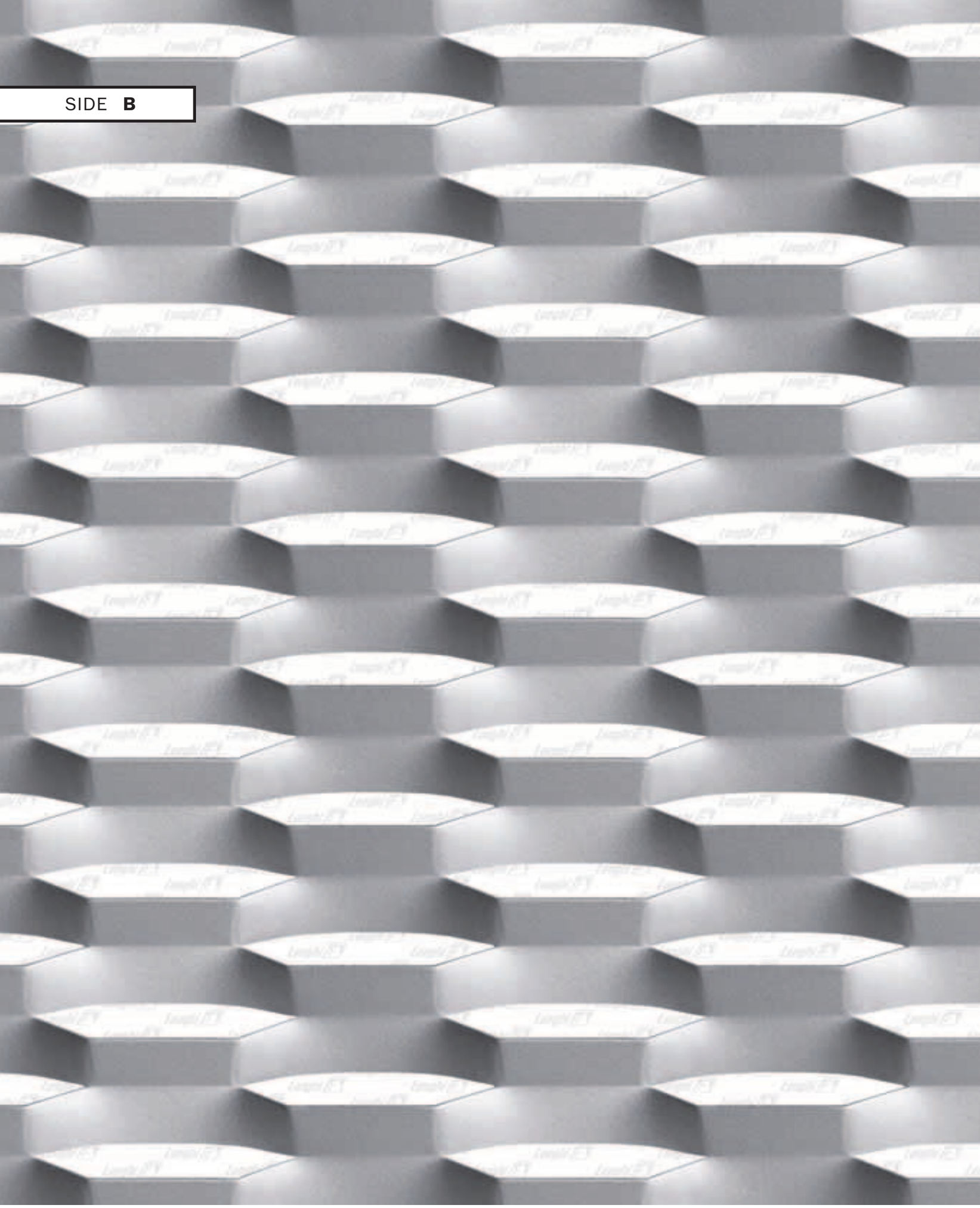
Fils

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 13 (~) ◆	23,3 (~)
E 100 x 40 (34) - 15 x **2,0**	13,70	4,50			

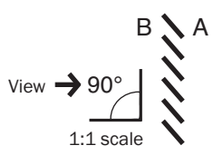
◆ Framing profiles: see page 192



Esperia

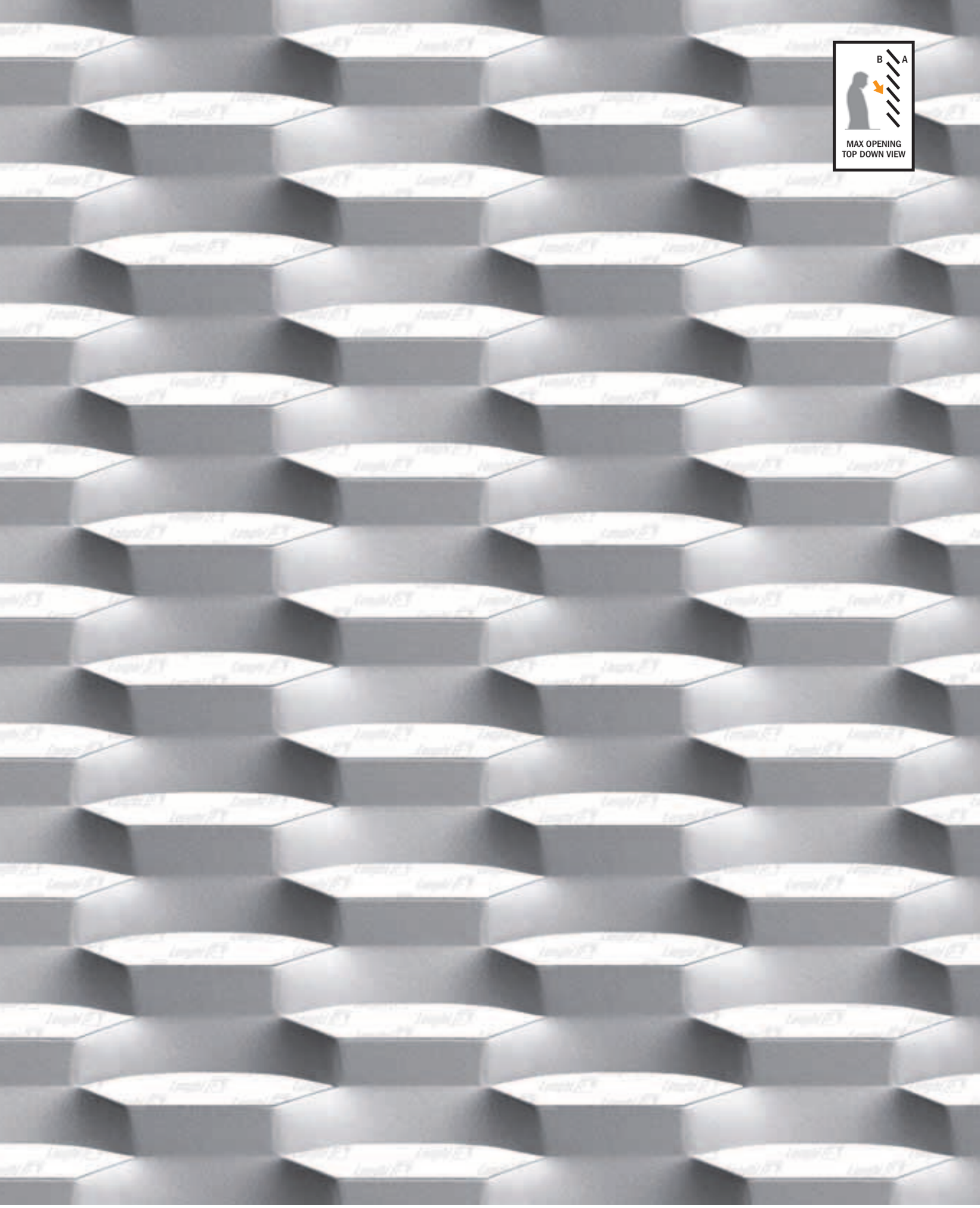
E 100 x 40 (34) - 15 x t

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



Fils

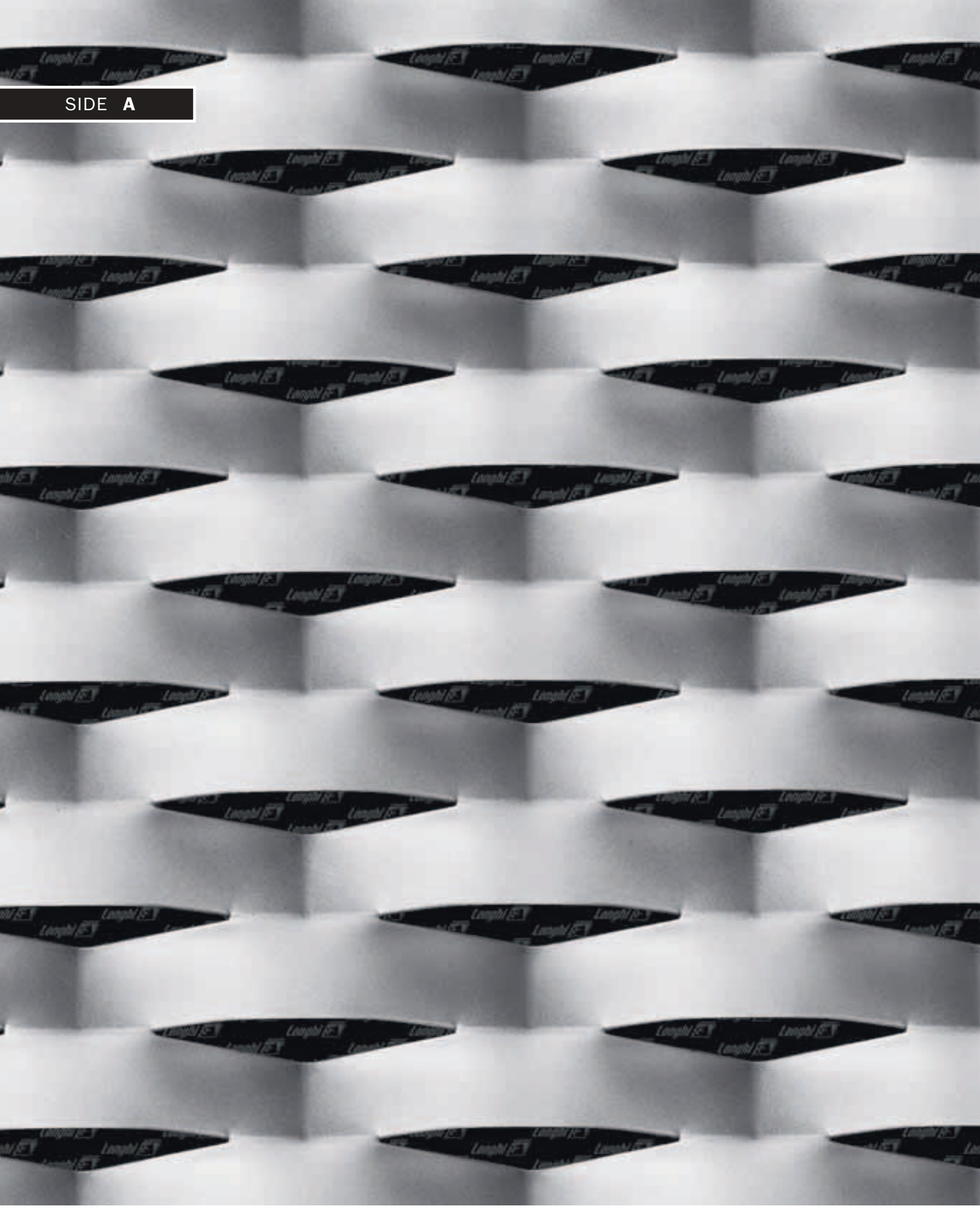
protech



MAX OPENING
TOP DOWN VIEW

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 13 (~) ◆	23,3 (~)
E 100 x 40 (34) - 15 x **2,0**	13,70	4,50			

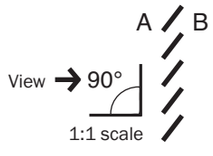
◆ Framing profiles: see page 192

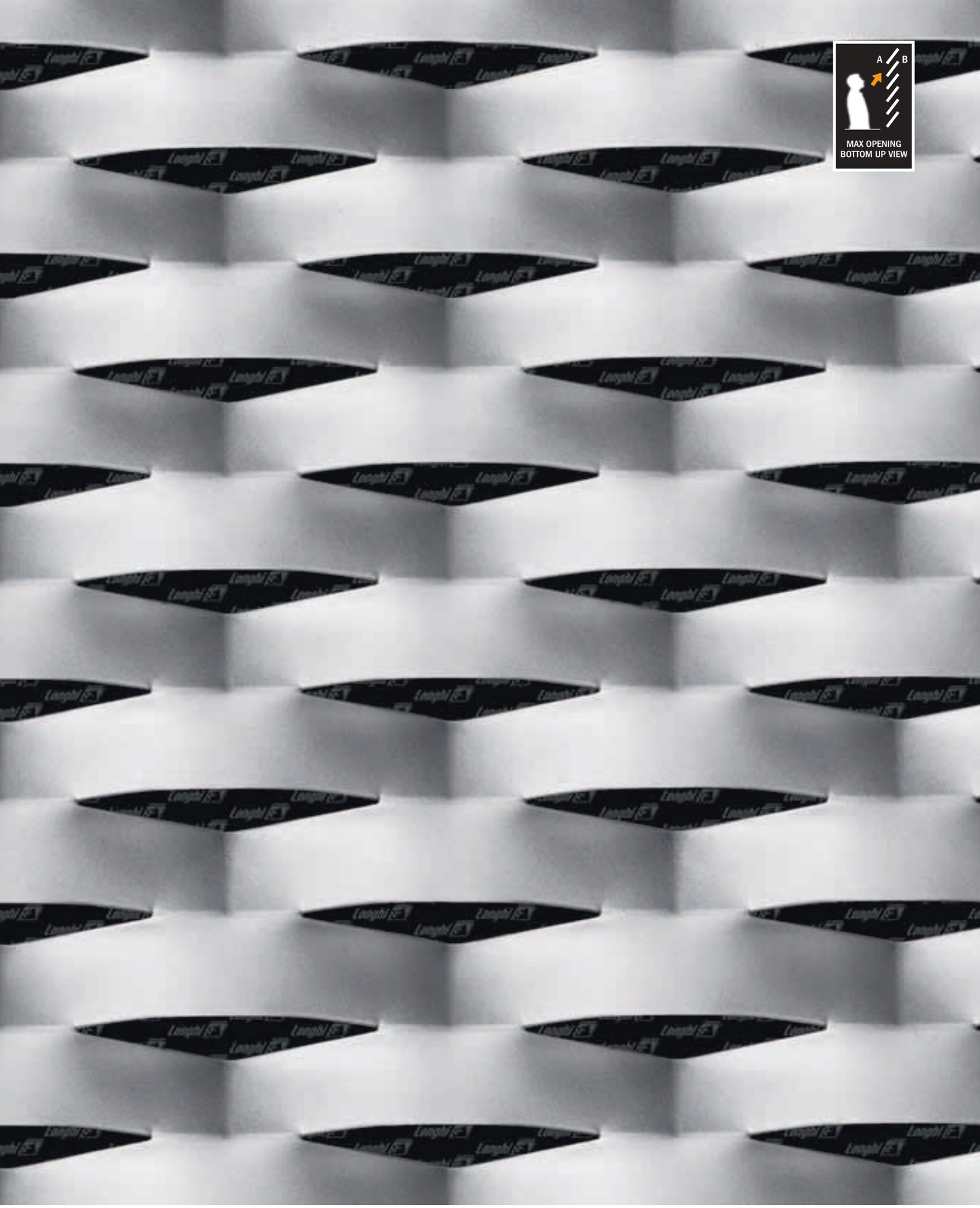


Ambasciata

R 110 x 40 (52) - 24 x t

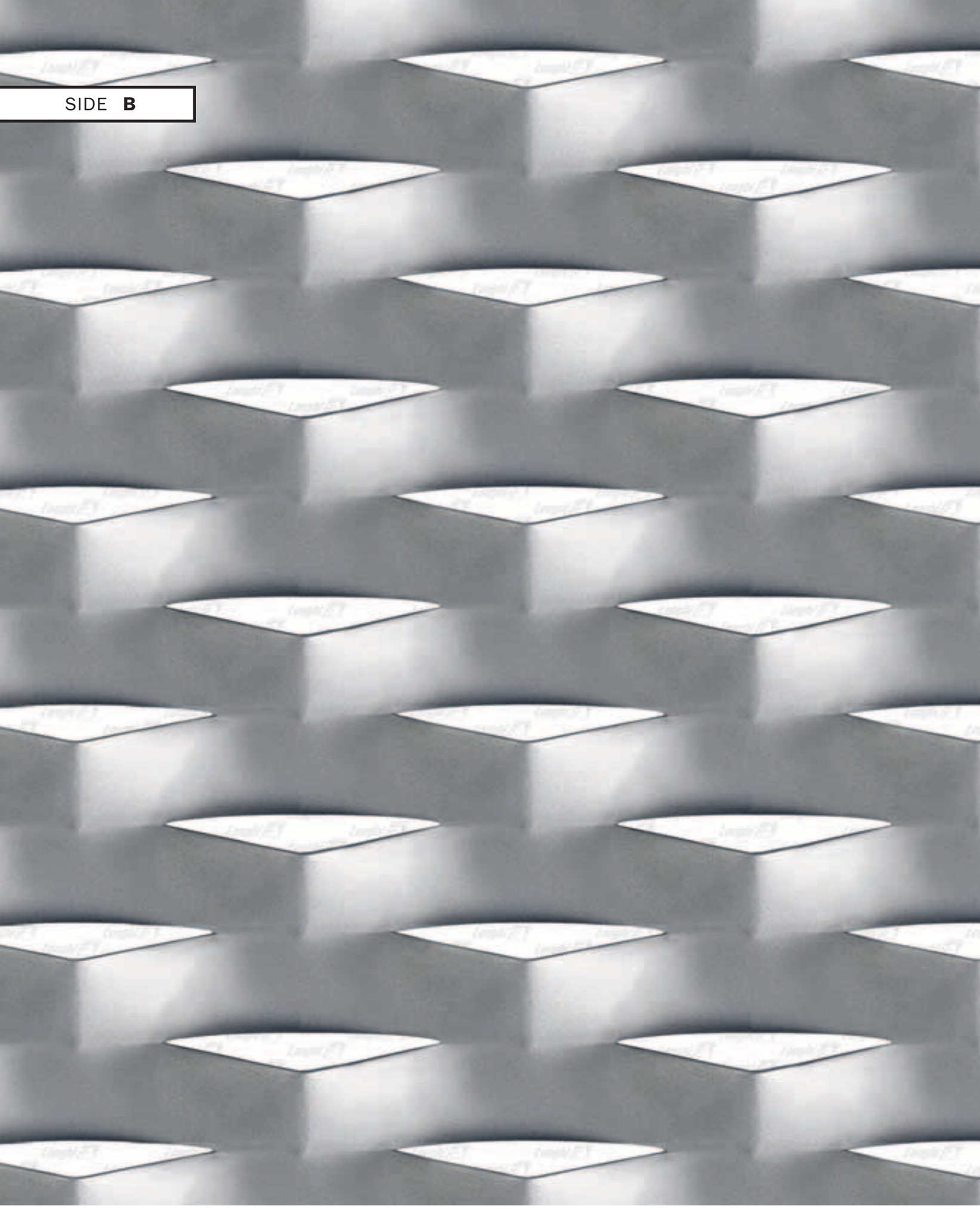
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t





Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 110 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	measured at the centre 18 (~) ◆	16 (~)
R 110 x 40 (52) - 24 x **2,0**	14,10	4,70			
R 110 x 40 (52) - 24 x **3,0**	21,10	7,00			

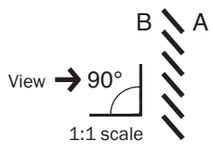
◆ Framing profiles: see page 192

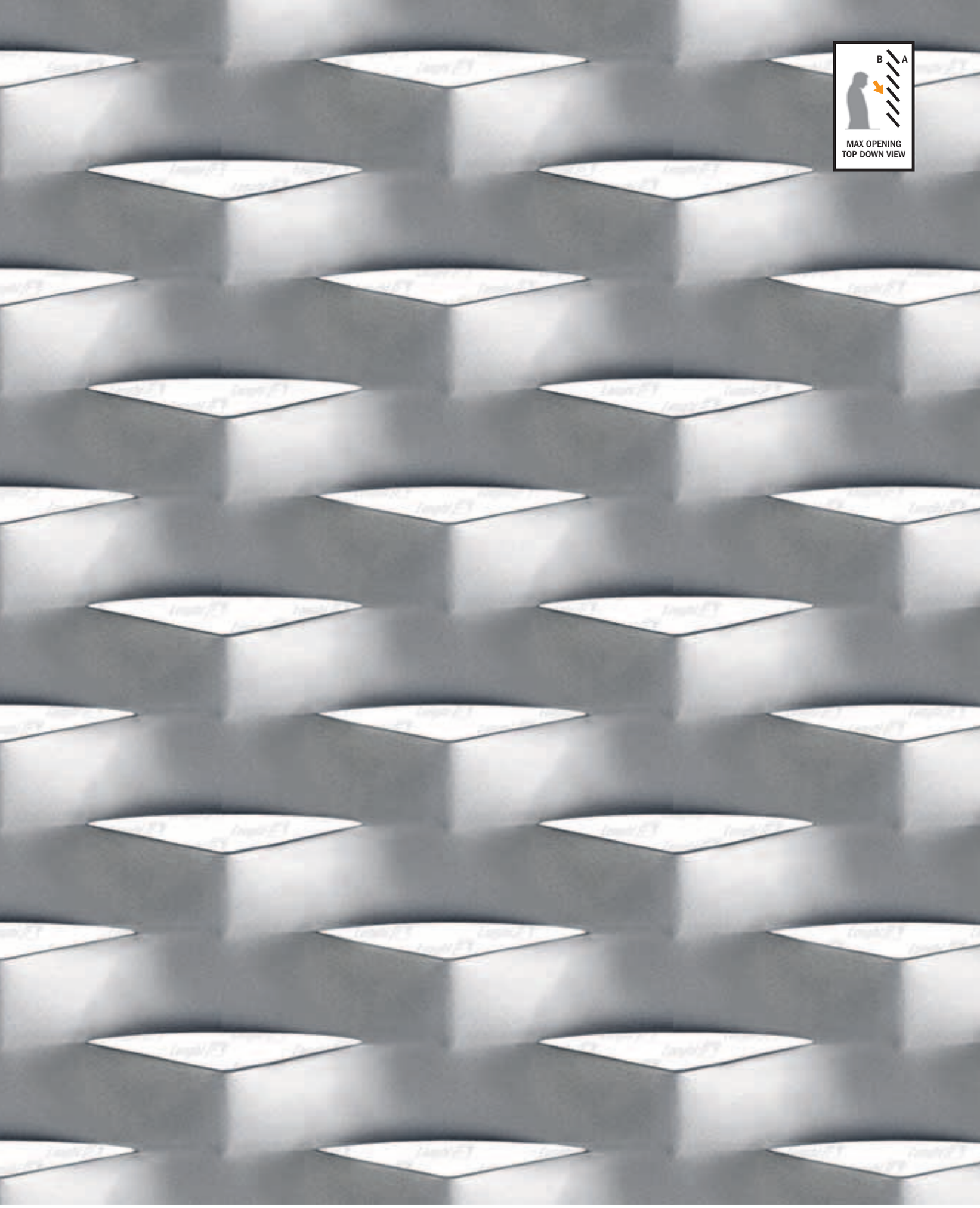


Ambasciata

R 110 x 40 (52) - 24 x t

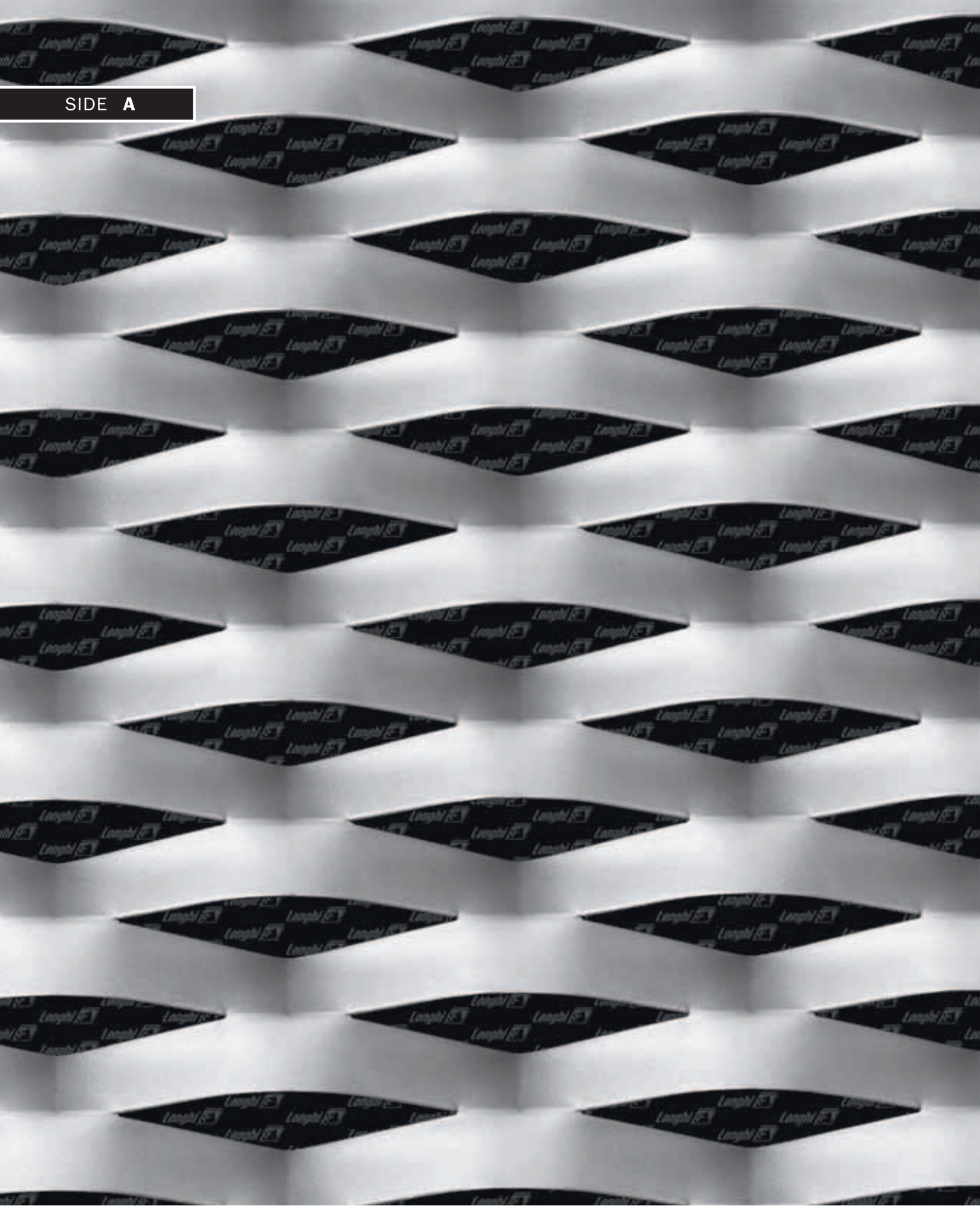
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t





Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 110 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	measured at the centre 18 (~) ◆	16 (~)
R 110 x 40 (52) - 24 x **2,0**	14,10	4,70			
R 110 x 40 (52) - 24 x **3,0**	21,10	7,00			

◆ Framing profiles: see page 192



Academy

R 115 x 40 (48) - 20 x t

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

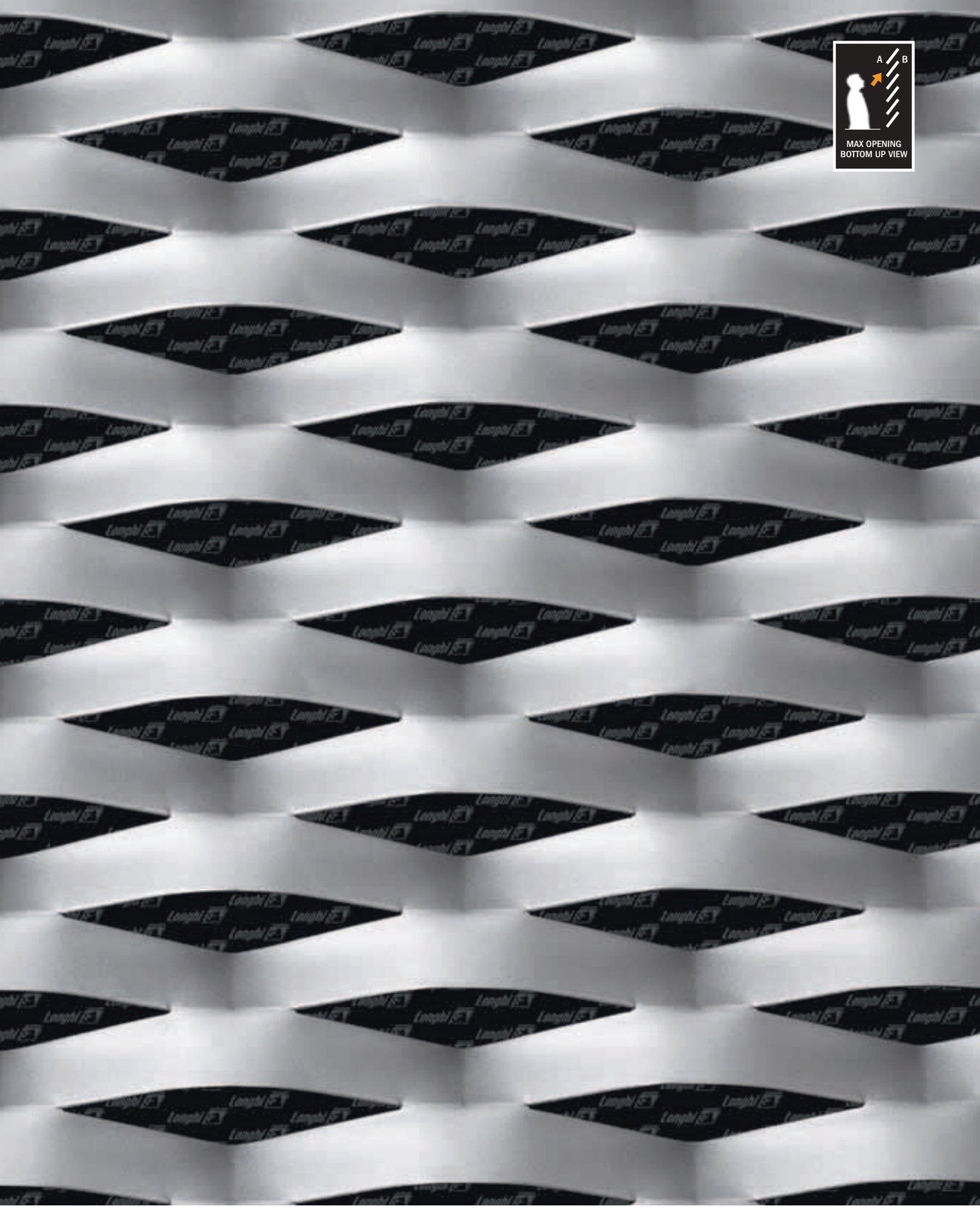
A B

View → 90°

1:1 scale

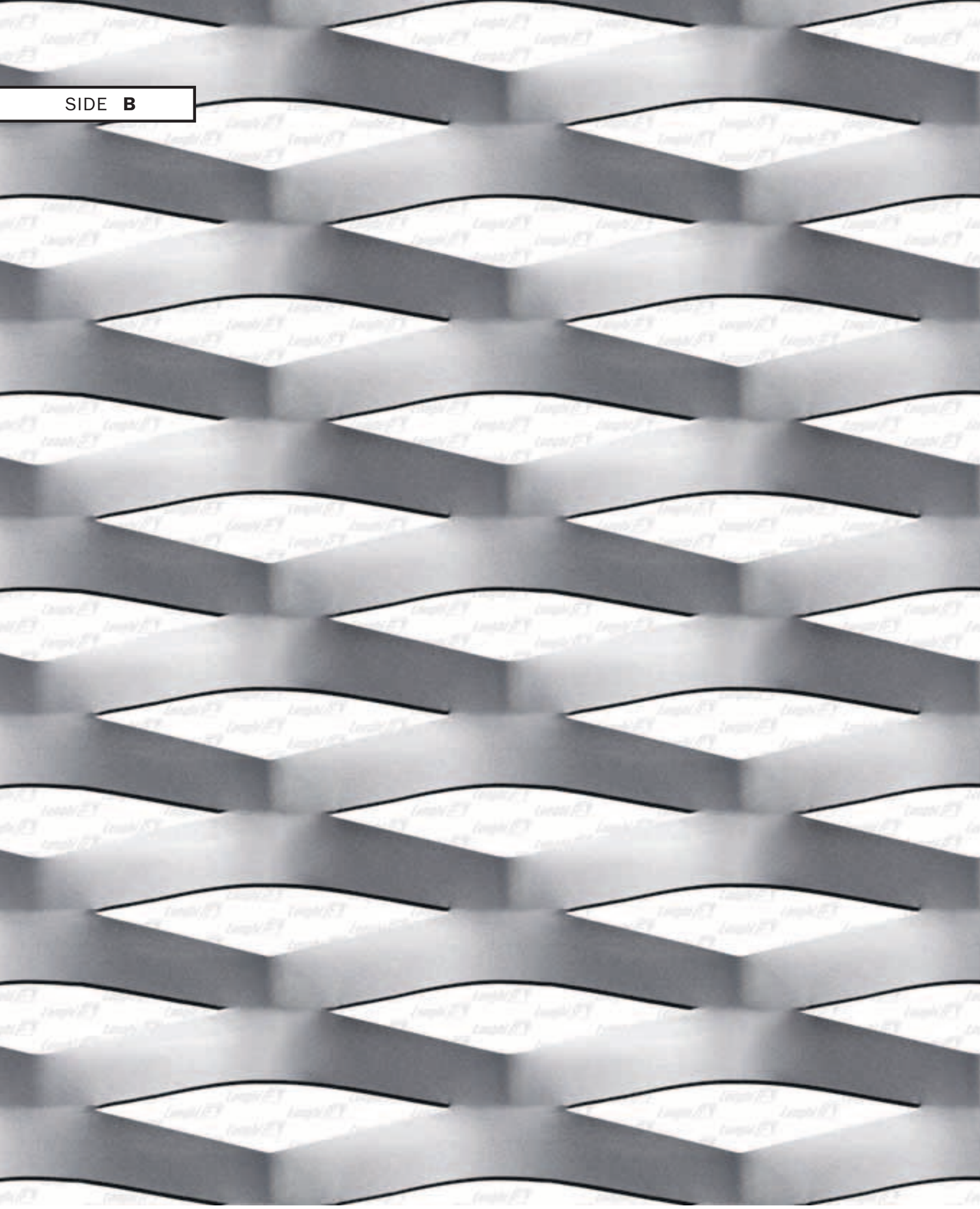
Flls

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 115 x 40 (48) - 20 x **1,5**	9,70	3,20	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 1800 Max	measured at the centre 21 (~) ◆	26 (~)
R 115 x 40 (48) - 20 x **2,0**	12,80	4,20			
R 115 x 40 (48) - 20 x **3,0**	19,30	6,40			

◆ Framing profiles: see page 192



SIDE **B**

Academy

R 115 x 40 (48) - 20 x t

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

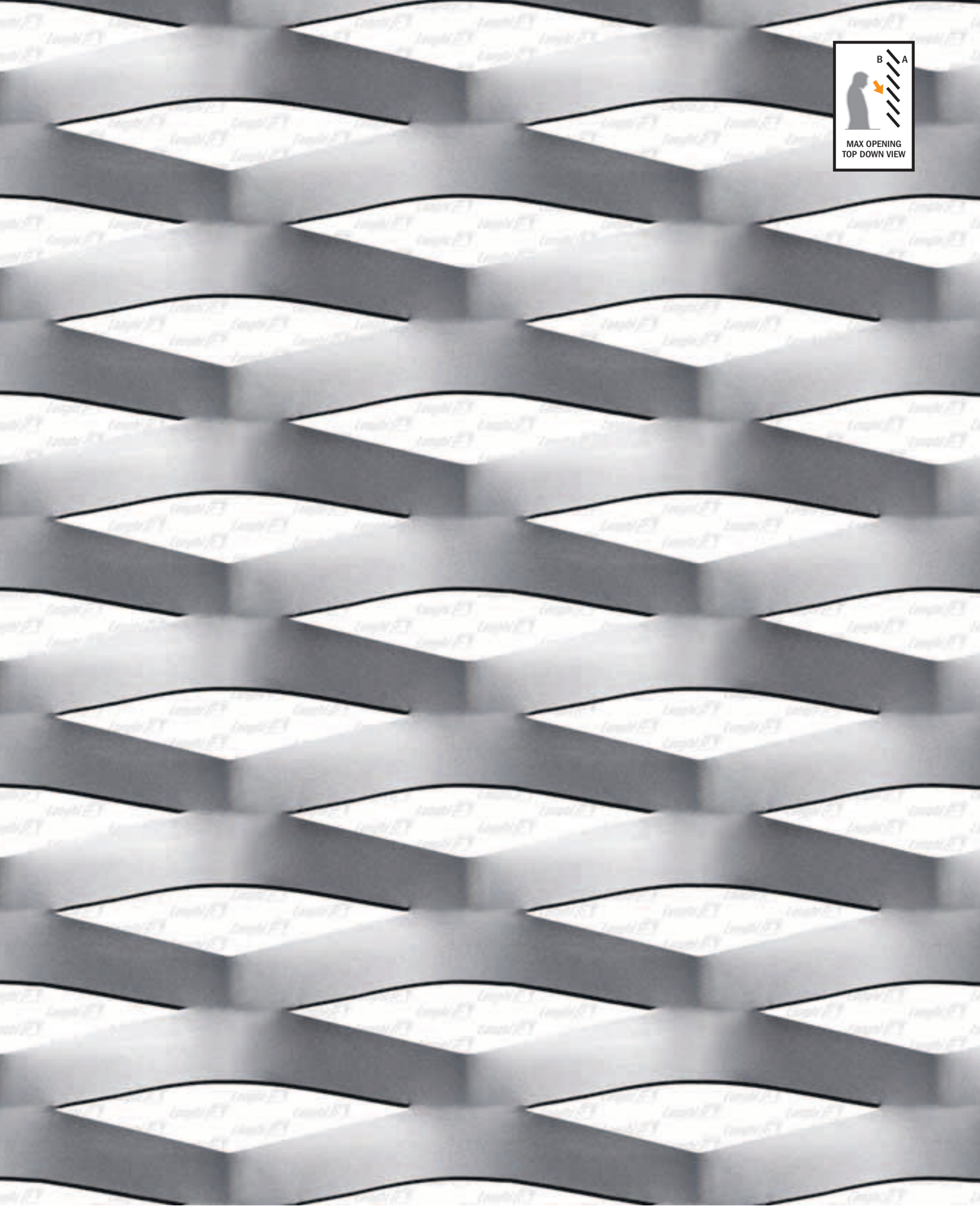
B A

View → 90°

1:1 scale

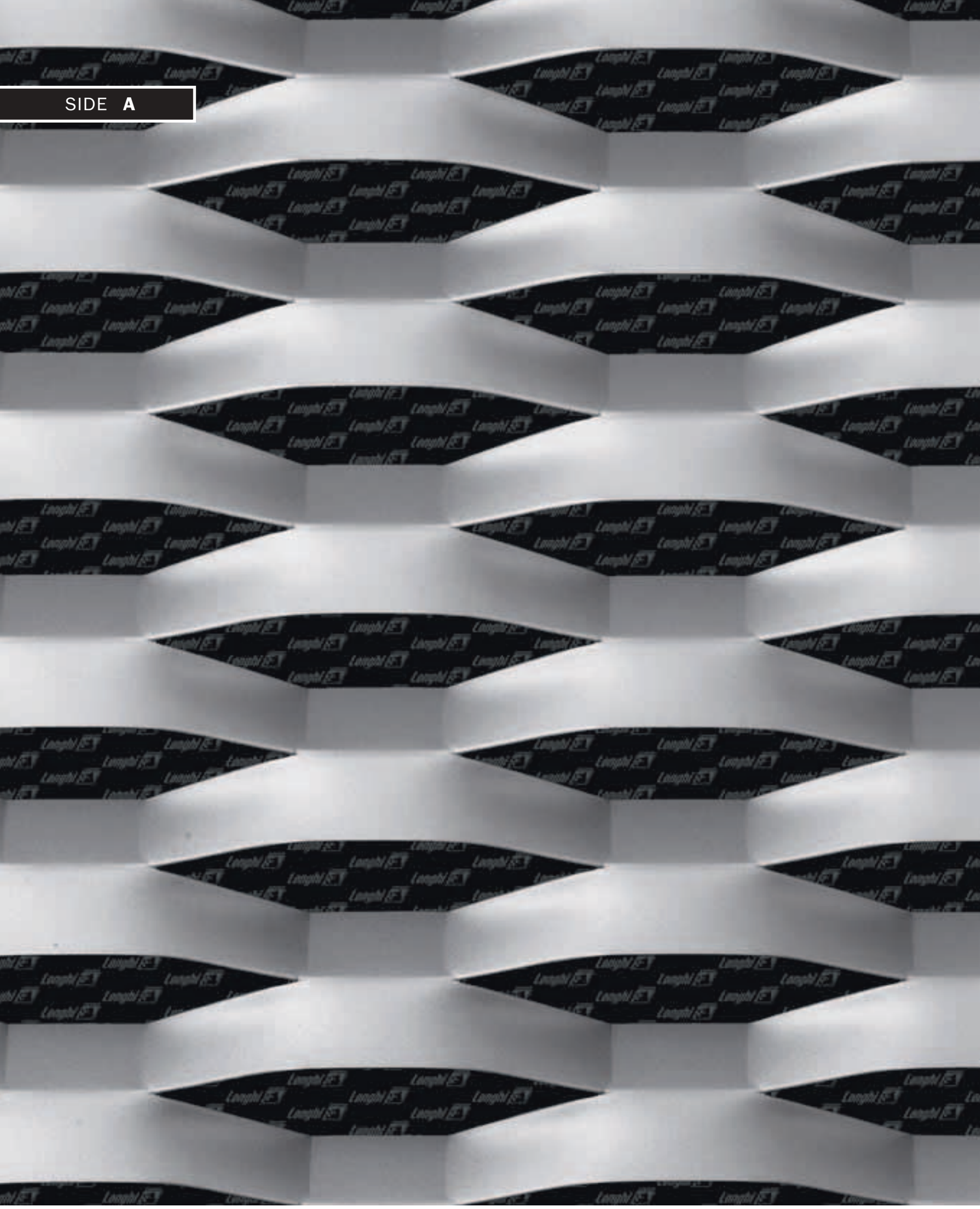
Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 115 x 40 (48) - 20 x **1,5**	9,70	3,20	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 1800 Max	measured at the centre 21 (~) ◆	26 (~)
R 115 x 40 (48) - 20 x **2,0**	12,80	4,20			
R 115 x 40 (48) - 20 x **3,0**	19,30	6,40			

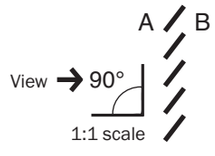
◆ Framing profiles: see page 192

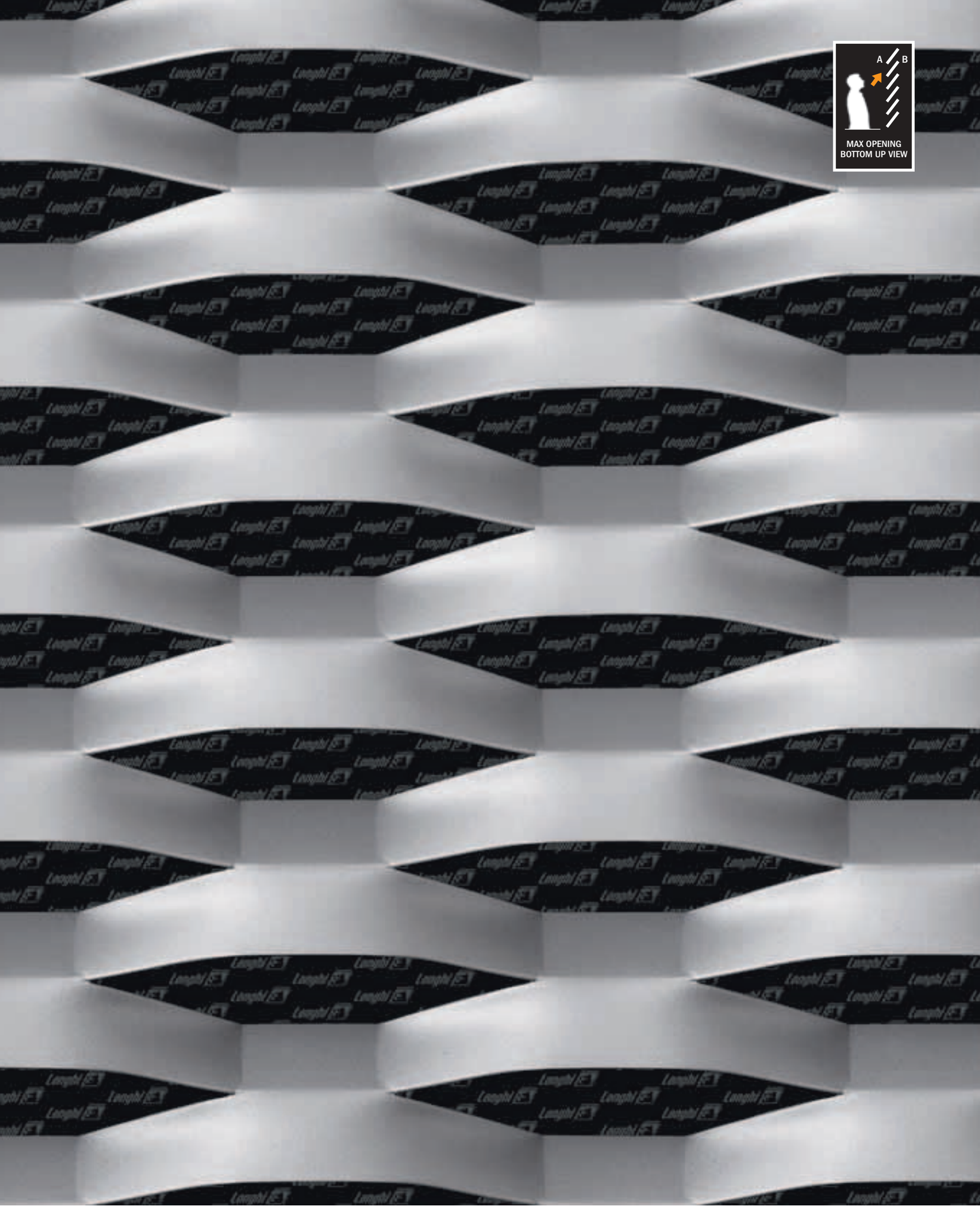


Lucerna

E 150 x 56 (56) - 21,5 x t

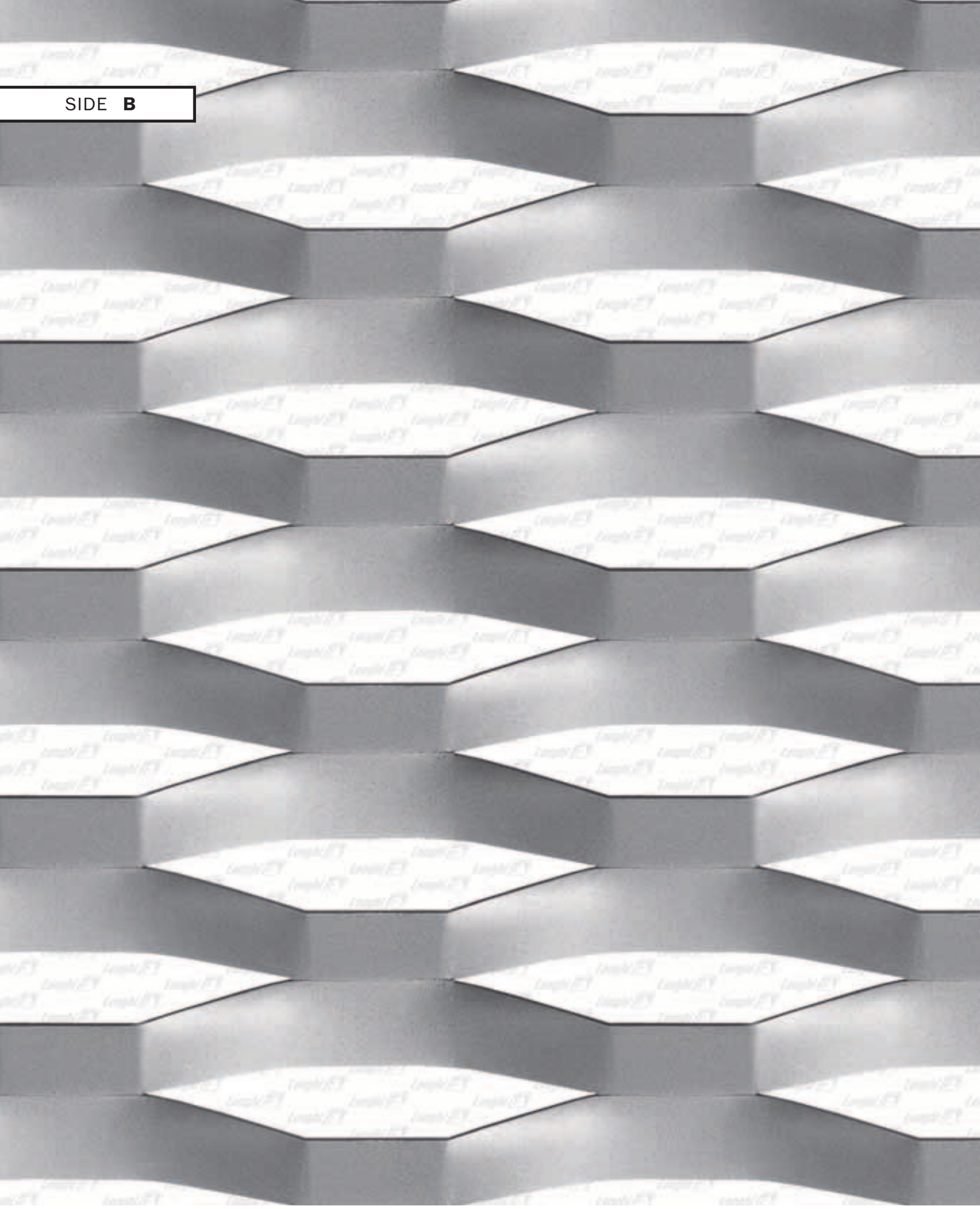
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t





Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 150 x 56 (56) - 21,5 x **1,5**	9,30	3,10	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 1800 Max	measured at the centre 21 (~) ◆	29,8 (~)
E 150 x 56 (56) - 21,5 x **2,0**	12,40	4,20			

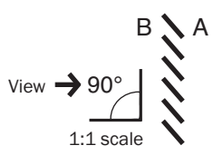
◆ Framing profiles: see page 192



Lucerna

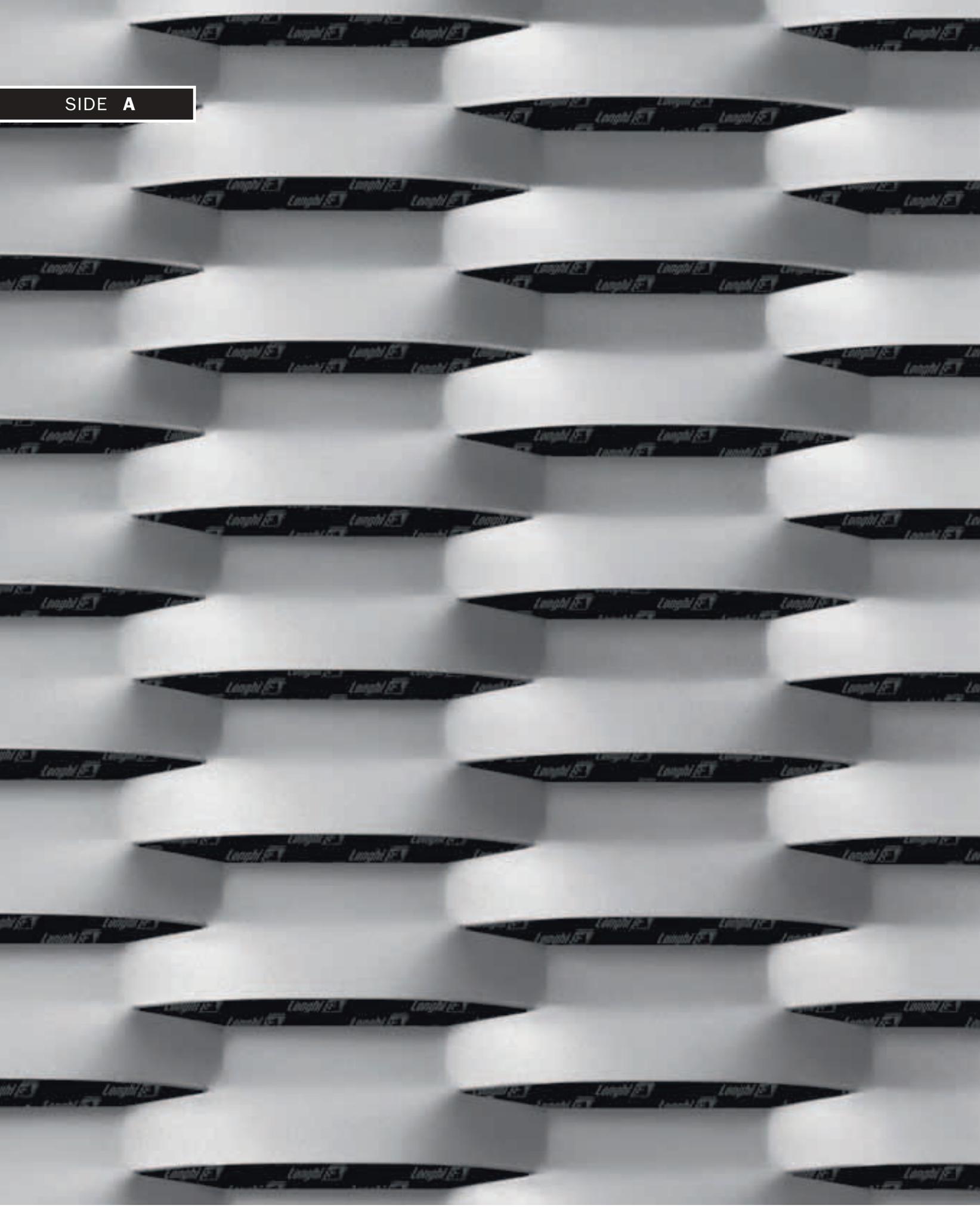
E 150 x 56 (56) - 21,5 x t

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



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 150 x 56 (56) - 21,5 x **1,5**	9,30	3,10	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 1800 Max	measured at the centre 21 (~) ◆	29,8 (~)
E 150 x 56 (56) - 21,5 x **2,0**	12,40	4,20			

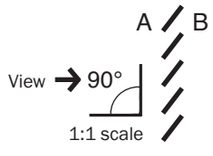
◆ Framing profiles: see page 192



College

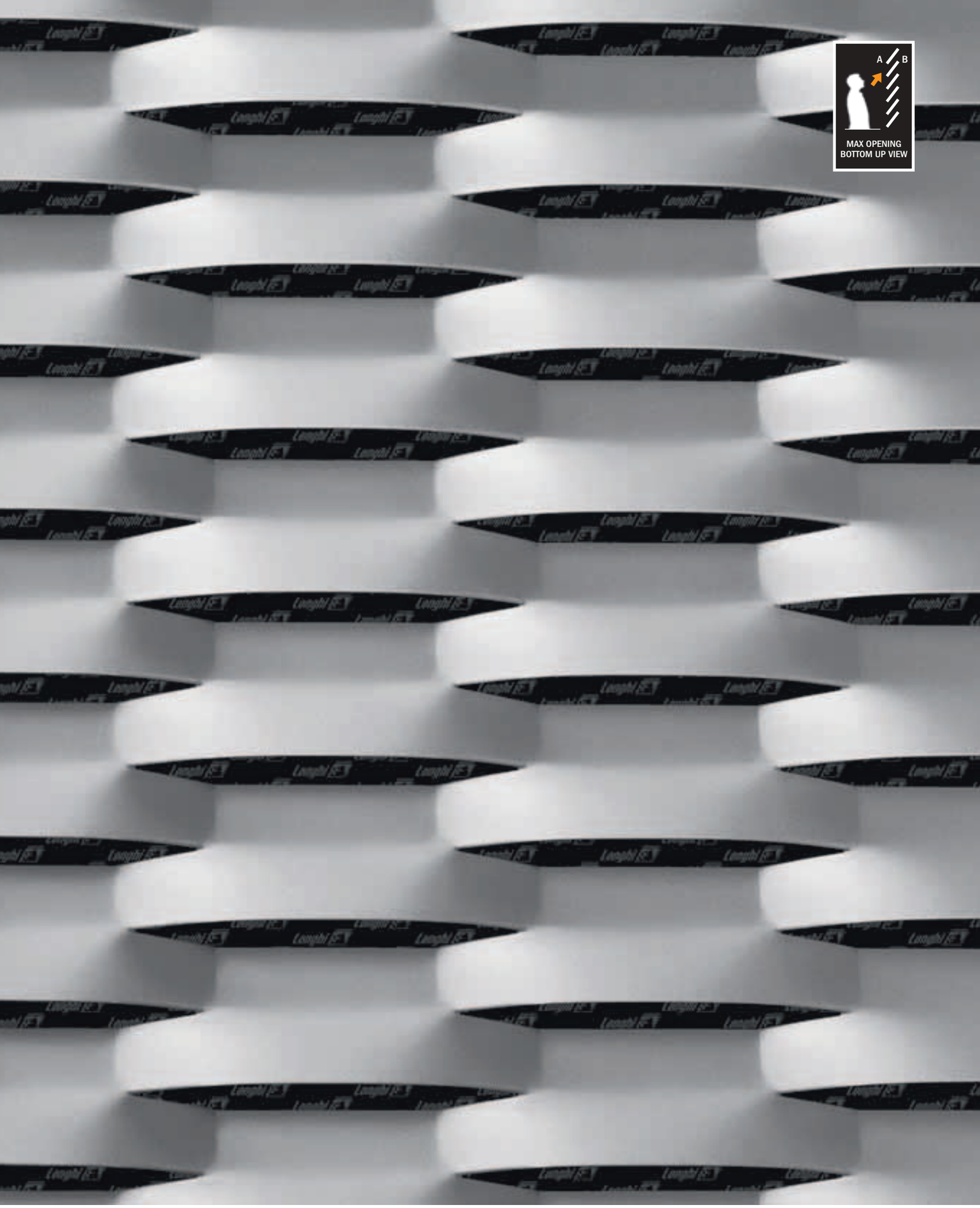
E 160 x 40 (40) - 18 x t

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



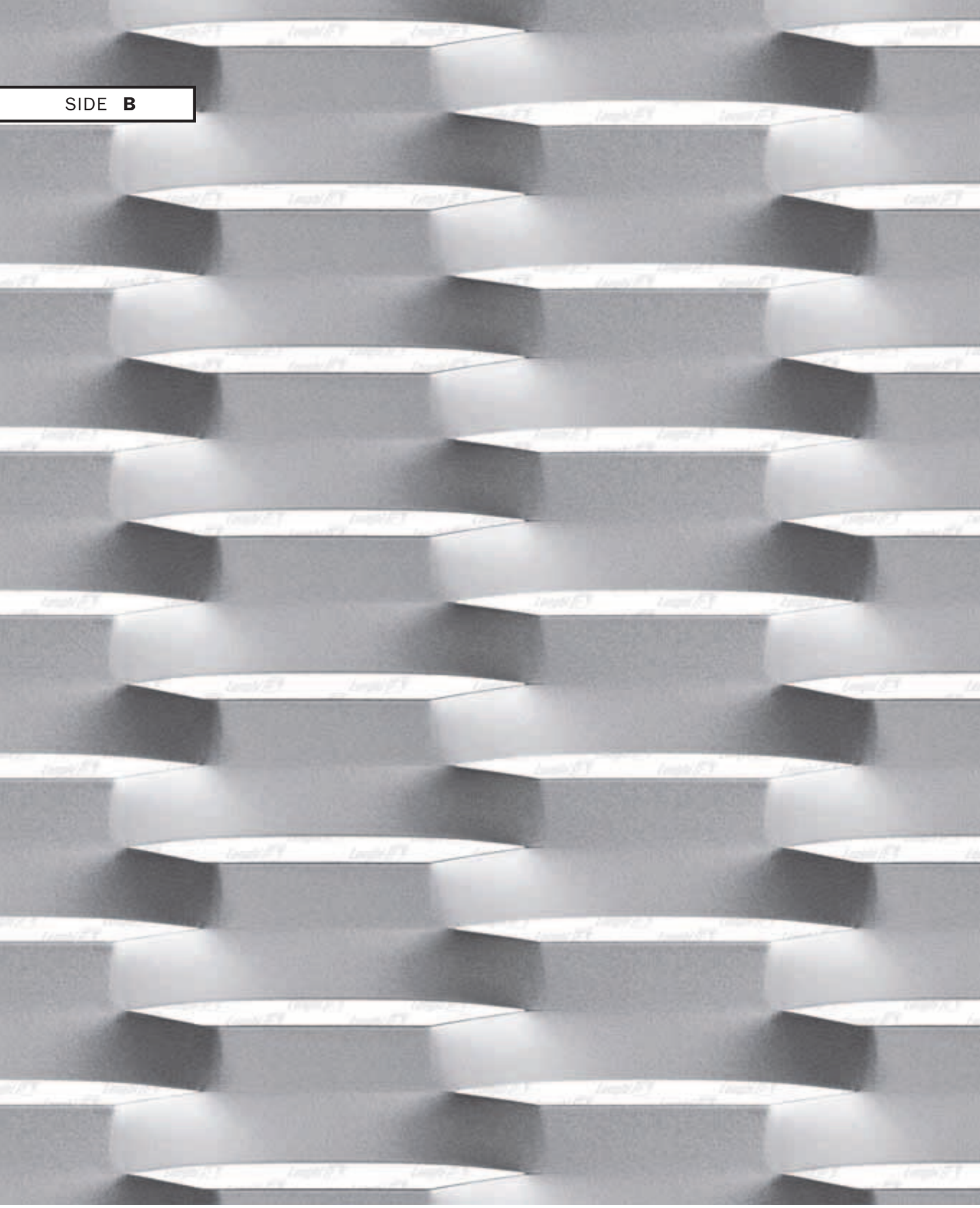
Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 160 x 40 (40) - 18 x **1,5**	10,80	3,60	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 1600 Max	measured at the centre 16 (~) ◆	15,4 (~)
E 160 x 40 (40) - 18 x **2,0**	14,40	4,80			

◆ Framing profiles: see page 192



SIDE **B**

College

E 160 x 40 (40) - 18 x t

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

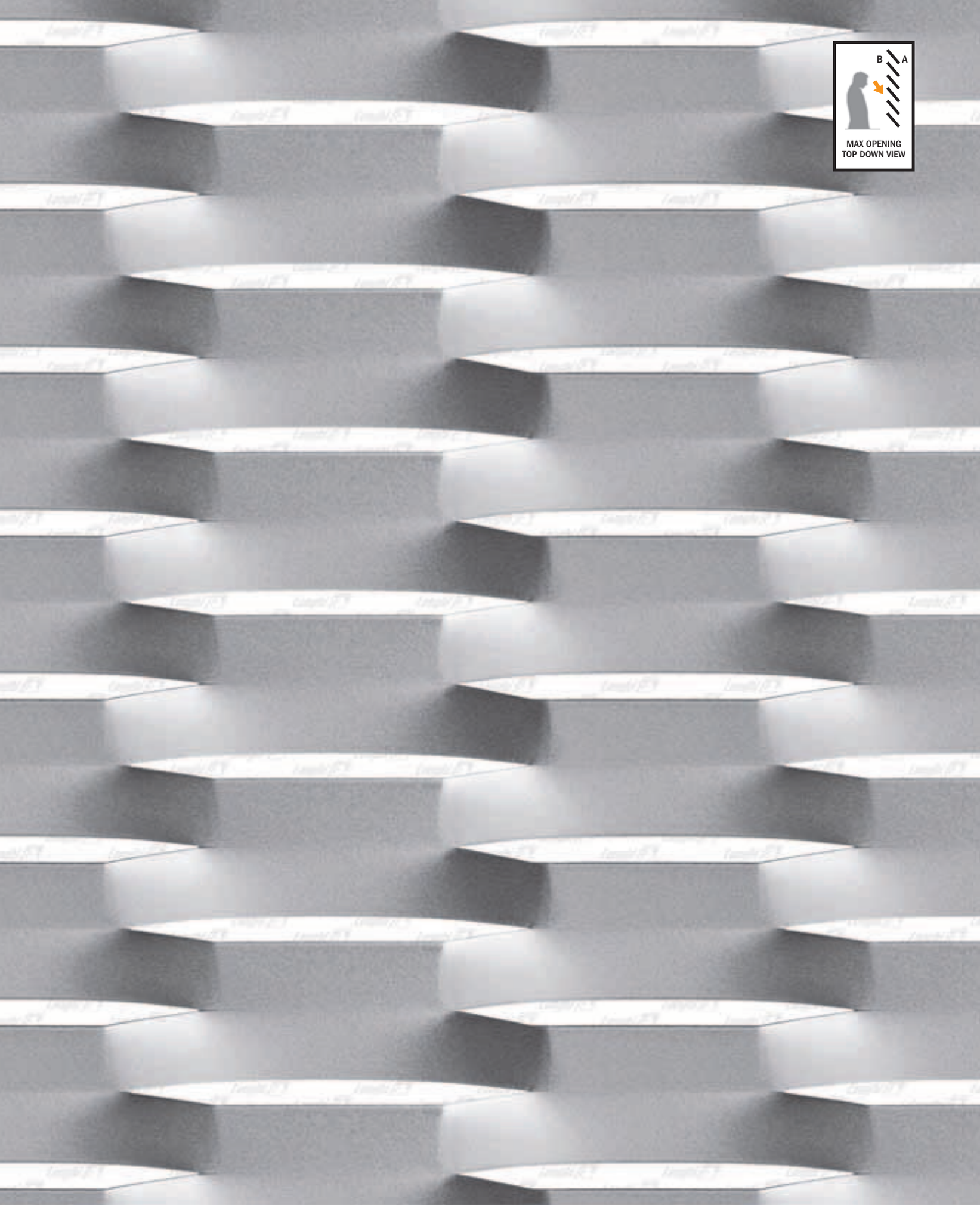
B A

View → 90°

1:1 scale

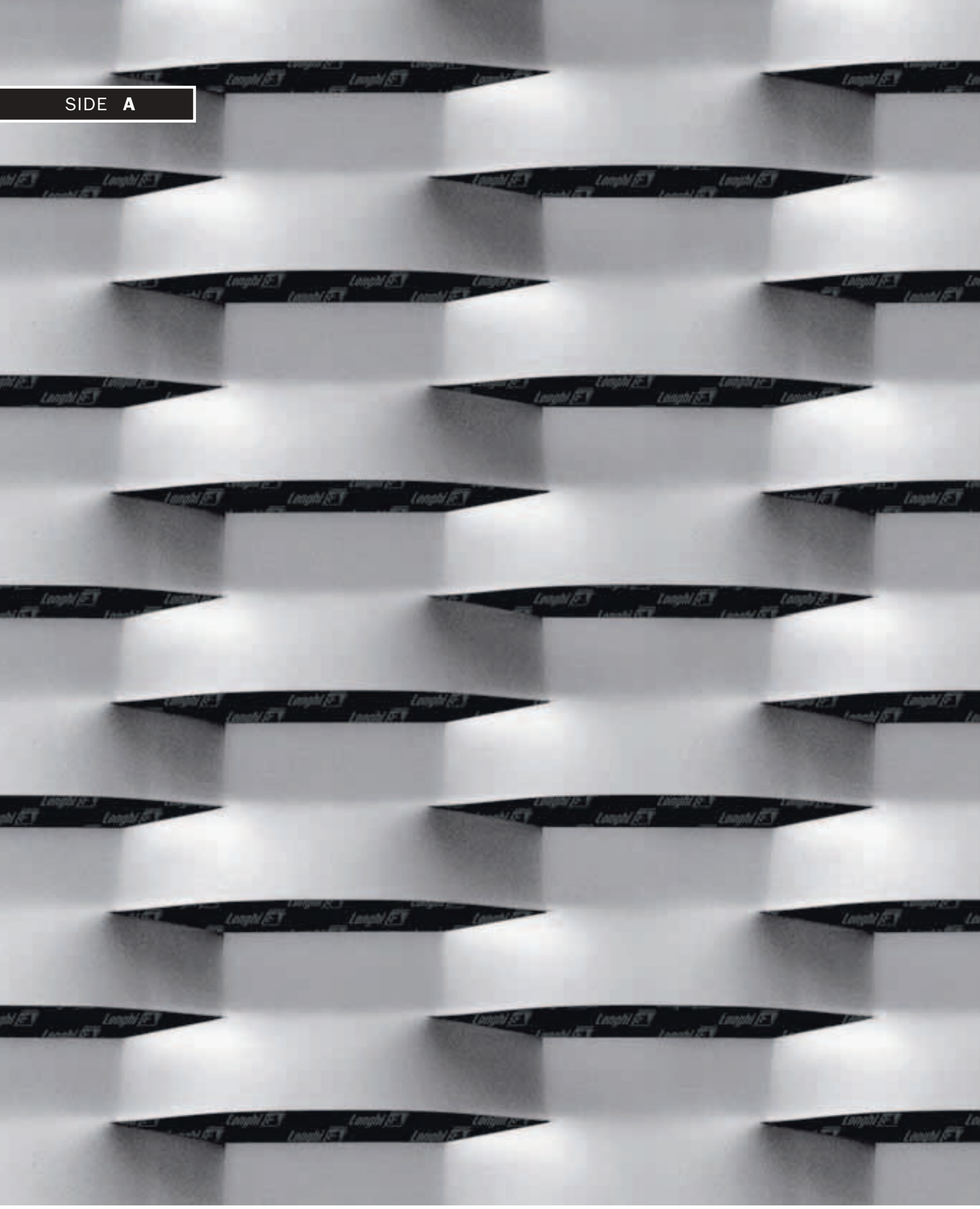
Fils

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 160 x 40 (40) - 18 x **1,5**	10,80	3,60	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 1600 Max	measured at the centre 16 (~) ◆	15,4 (~)
E 160 x 40 (40) - 18 x **2,0**	14,40	4,80			

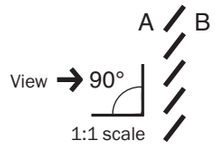
◆ Framing profiles: see page 192



Omega

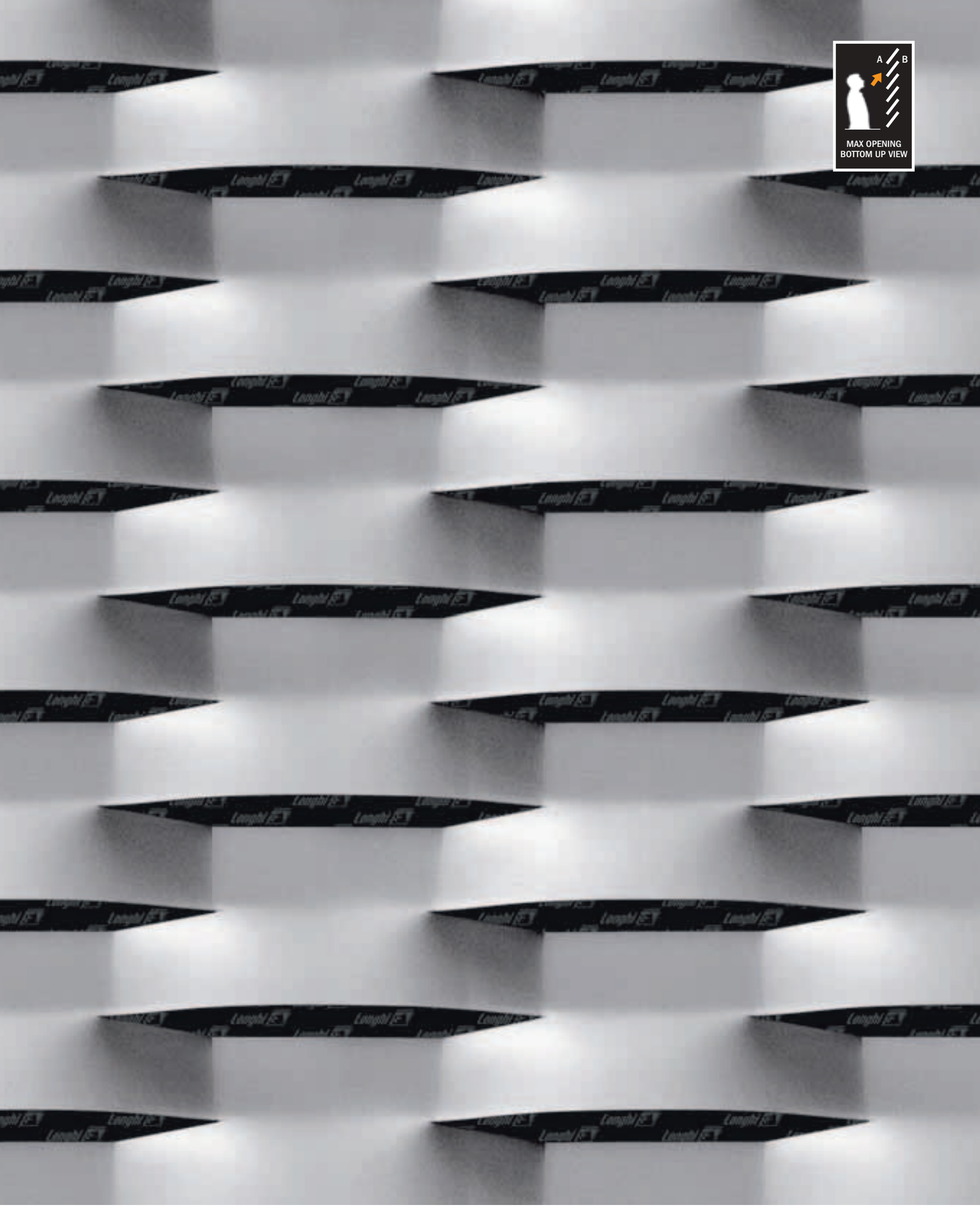
E 160 x 40 (52) - 24 x t

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



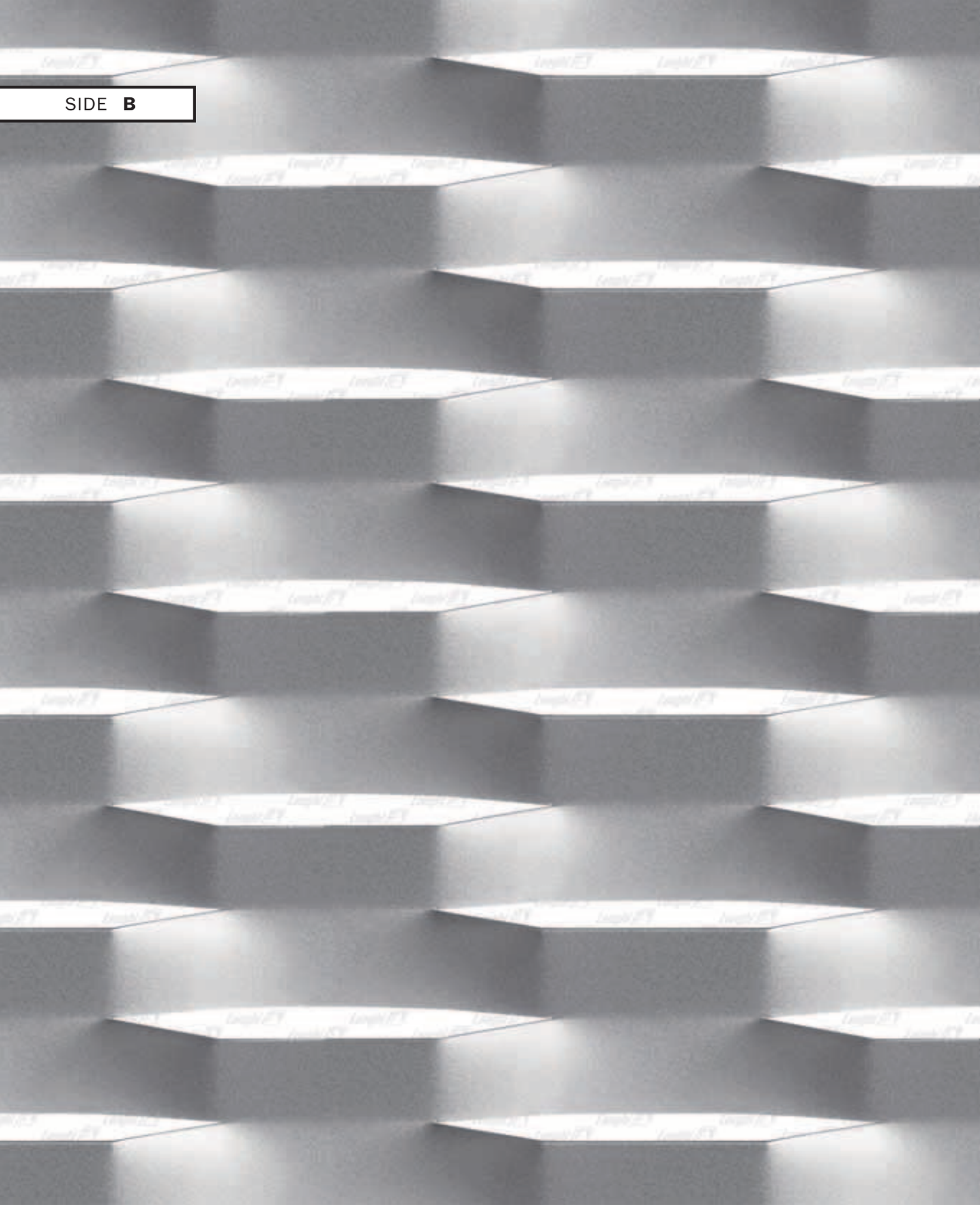
Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 160 x 40 (52) - 24 x **1,5**	10,80	3,60	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 1600 Max	measured at the centre 16 (~) ◆	15 (~)
E 160 x 40 (52) - 24 x **2,0**	14,40	4,80			
E 160 x 40 (52) - 24 x **3,0**	21,60	7,20			

◆ Framing profiles: see page 192



Omega

E 160 x 40 (52) - 24 x t

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

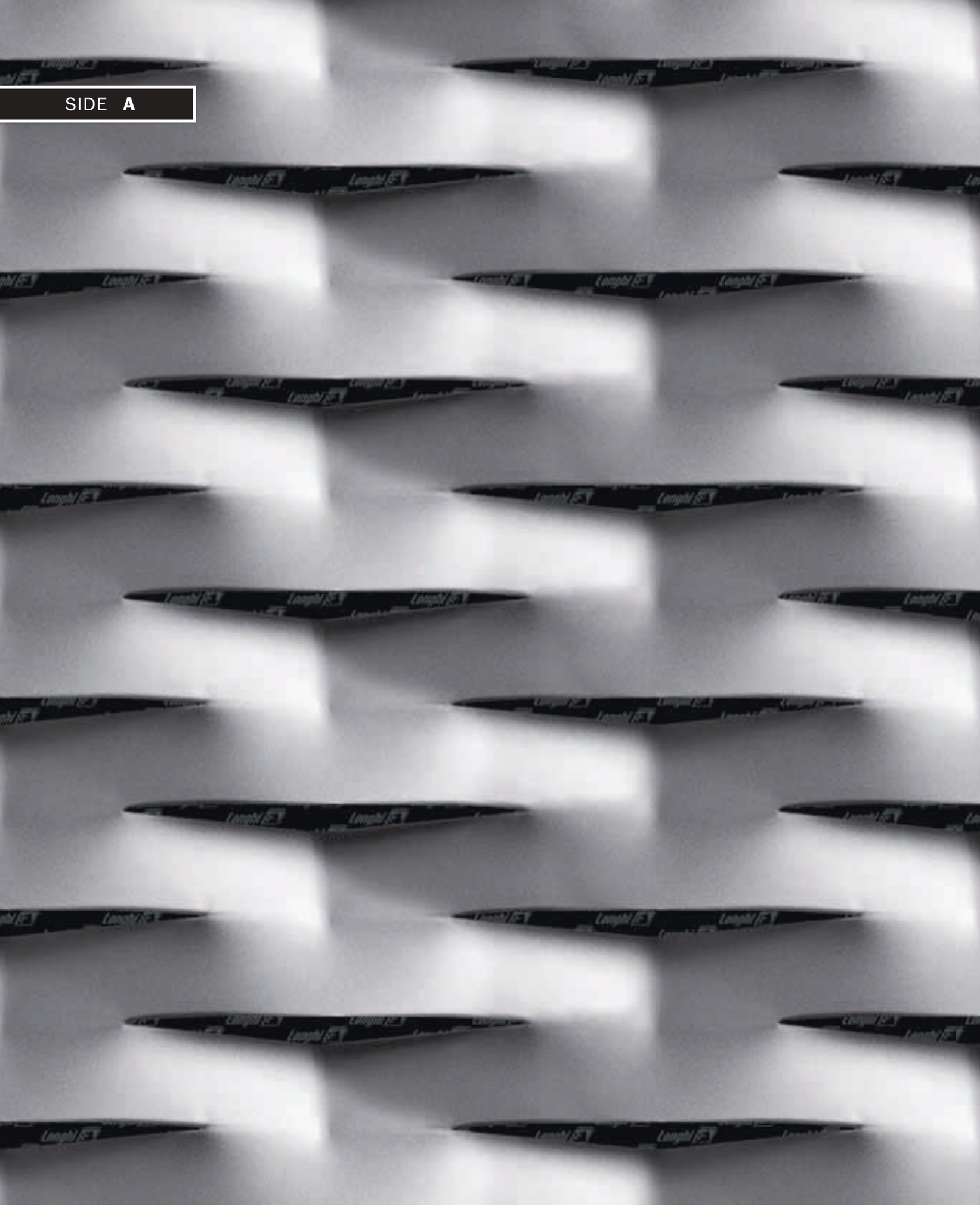
B A

View → 90°

1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 160 x 40 (52) - 24 x **1,5**	10,80	3,60	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 1600 Max	measured at the centre 16 (~) ◆	15 (~)
E 160 x 40 (52) - 24 x **2,0**	14,40	4,80			
E 160 x 40 (52) - 24 x **3,0**	21,60	7,20			

◆ Framing profiles: see page 192



Sierra

R 160 x 40 (52) - 24 x t

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

A B

View → 90°

1:1 scale

Fiis

protech

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 18 (~) ◆	10,2 (~)
R 160 x 40 (52) - 24 x **2,0**	14,10	4,70			

◆ Framing profiles: see page 192

SIDE **B**

Sierra

R 160 x 40 (52) - 24 x t

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

B A

View → 90°

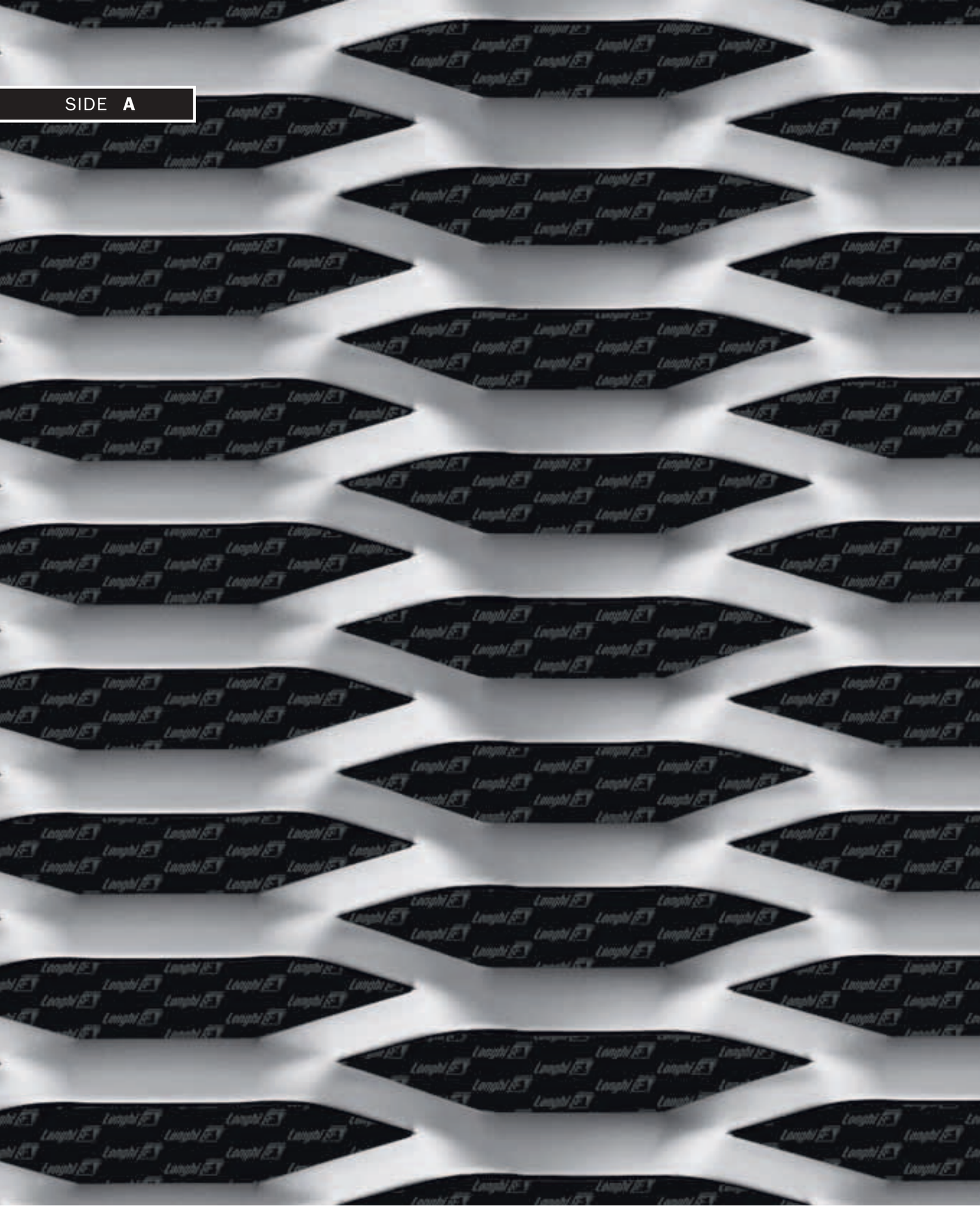
1:1 scale

Fils

protech

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 18 (~) ◆	10,2 (~)
R 160 x 40 (52) - 24 x **2,0**	14,10	4,70			

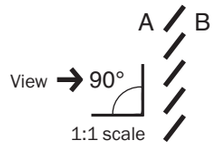
◆ Framing profiles: see page 192



Prisma

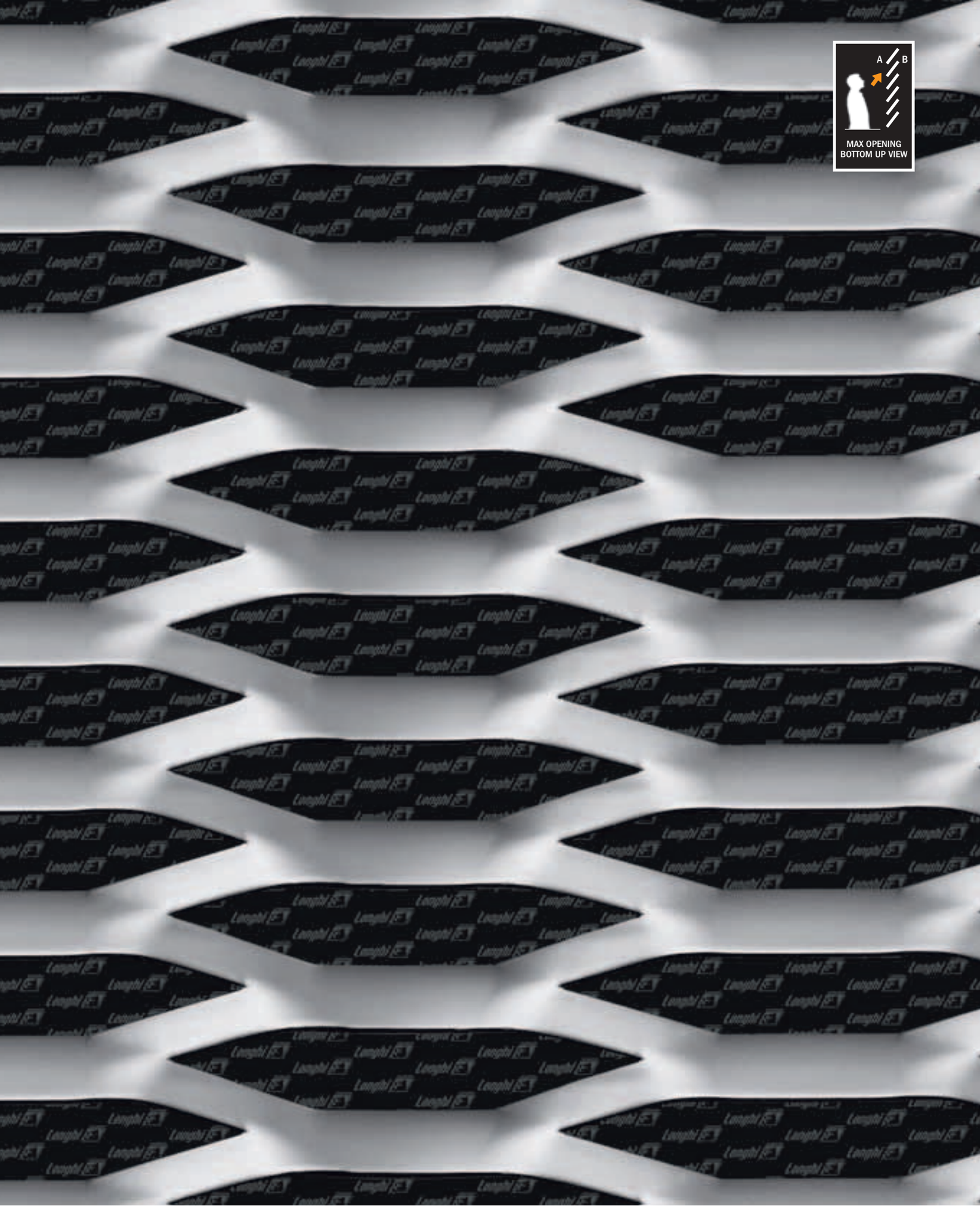
E 200 x 65 (35) - 15 x t

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



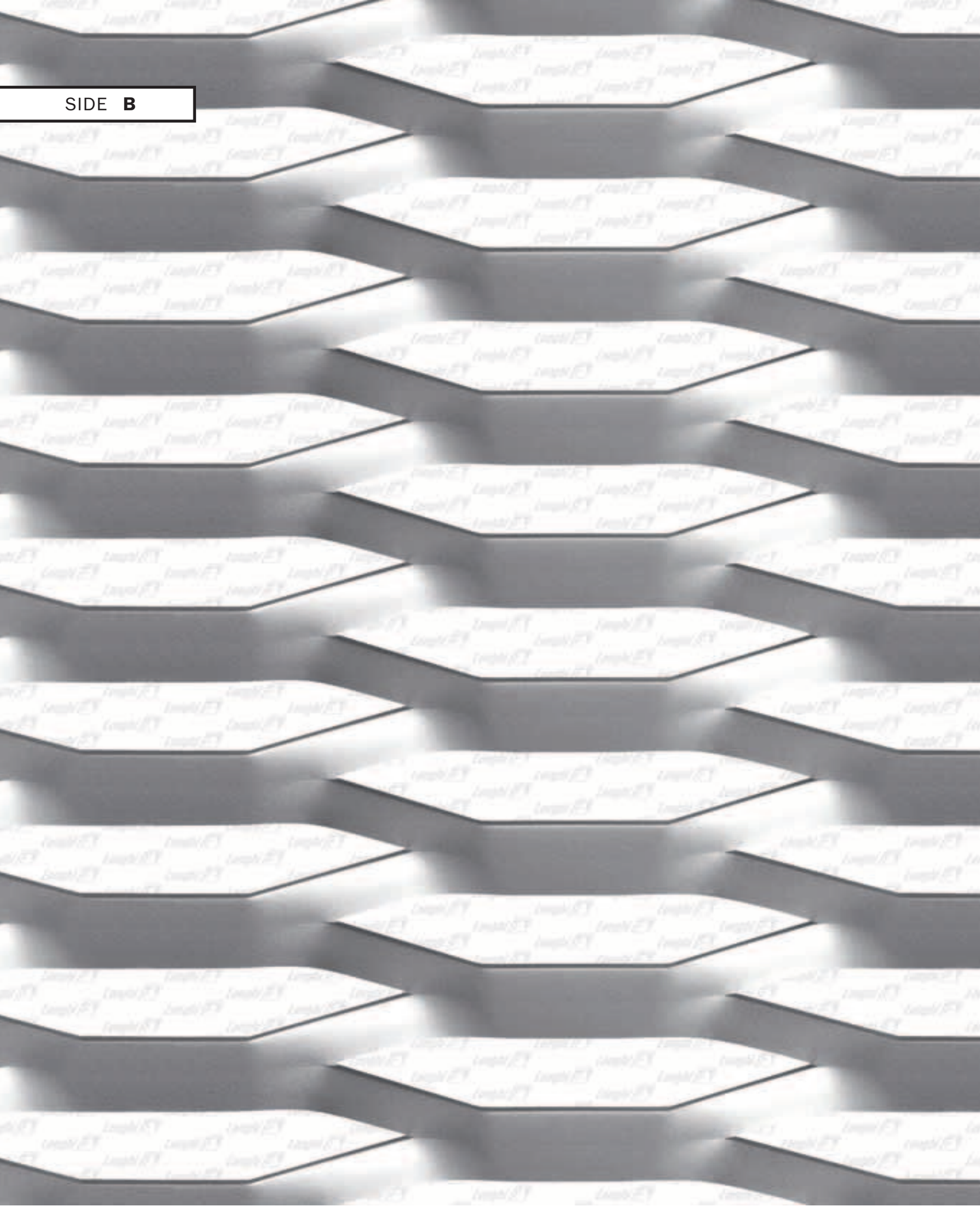
Fils

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 200 x 65 (35) - 15 x **1,5**	10,10	/	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 1700 Max	measured at the centre 17 (~) ◆	20,5 (~)
E 200 x 65 (35) - 15 x **2,0**	13,50	4,60			
E 200 x 65 (35) - 15 x **3,0**	/	6,90			

◆ Framing profiles: see page 192



Prisma

E 200 x 65 (35) - 15 x t

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

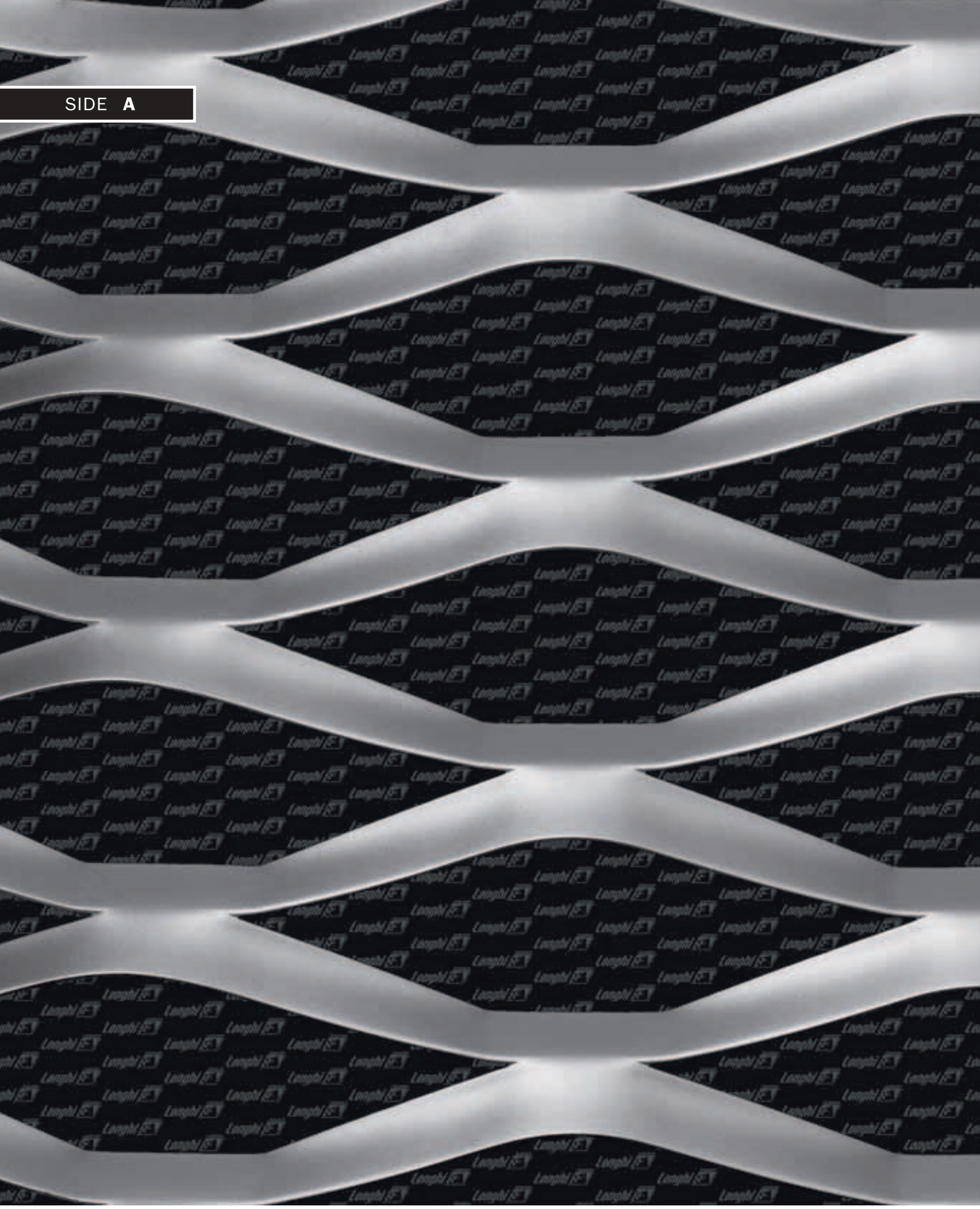
B A

View → 90°

1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 200 x 65 (35) - 15 x **1,5**	10,10	/	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 1700 Max	measured at the centre 17 (~) ◆	20,5 (~)
E 200 x 65 (35) - 15 x **2,0**	13,50	4,60			
E 200 x 65 (35) - 15 x **3,0**	/	6,90			

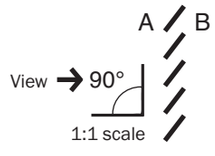
◆ Framing profiles: see page 192



Stadium

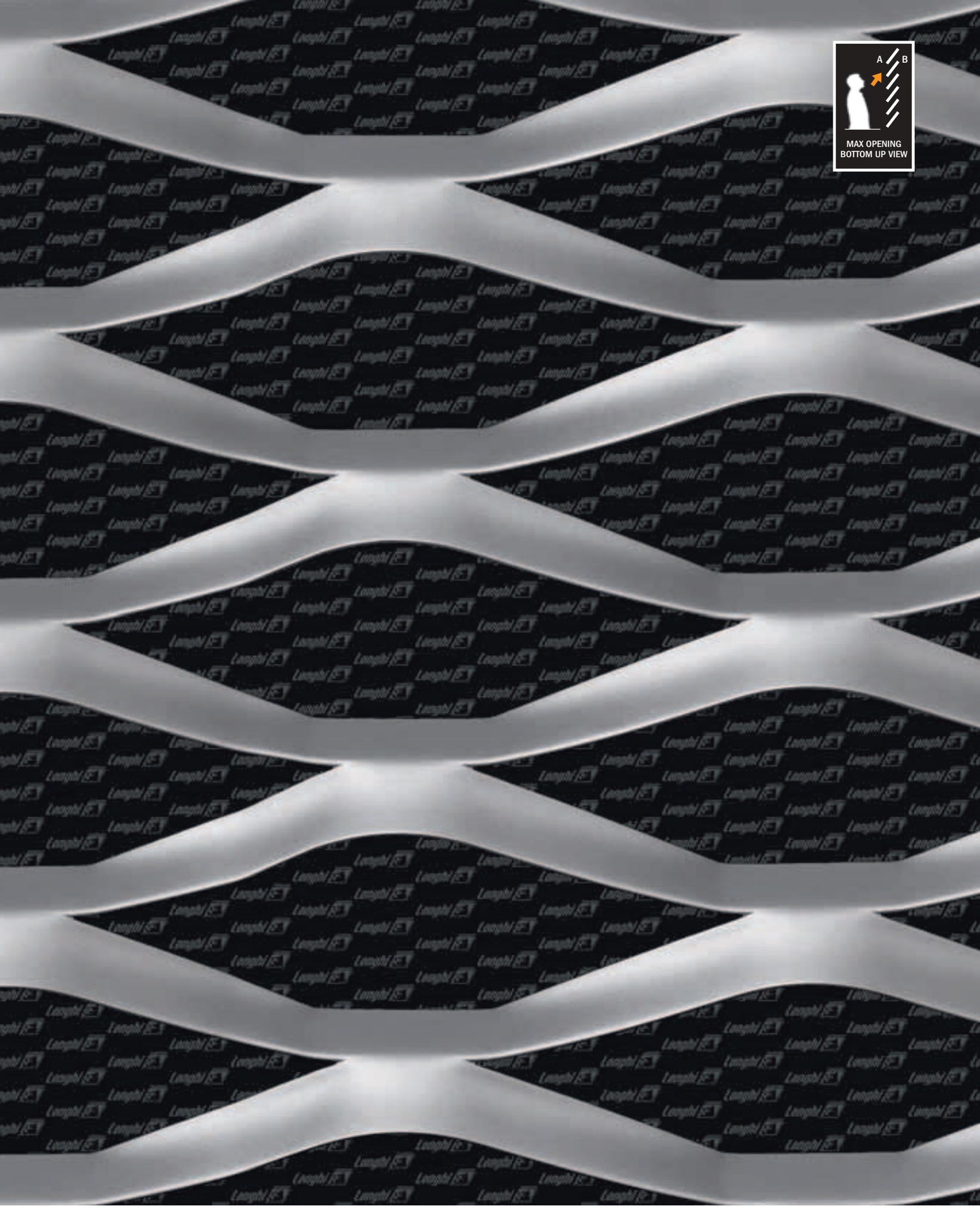
E 200 x 65 (70) - 20,6 x t

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



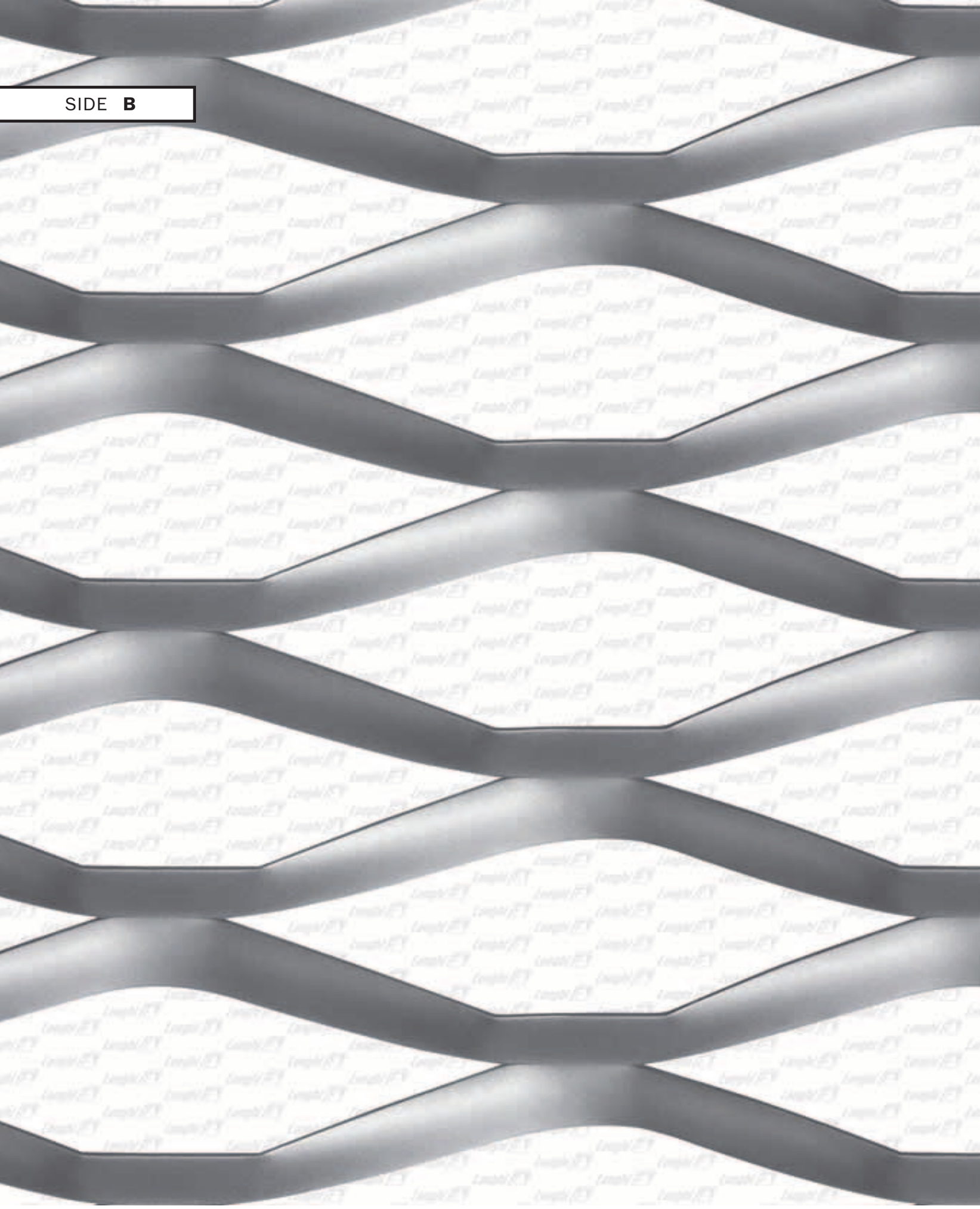
Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 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			

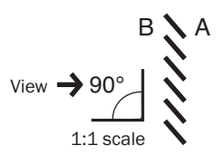
◆ Framing profiles: see page 192

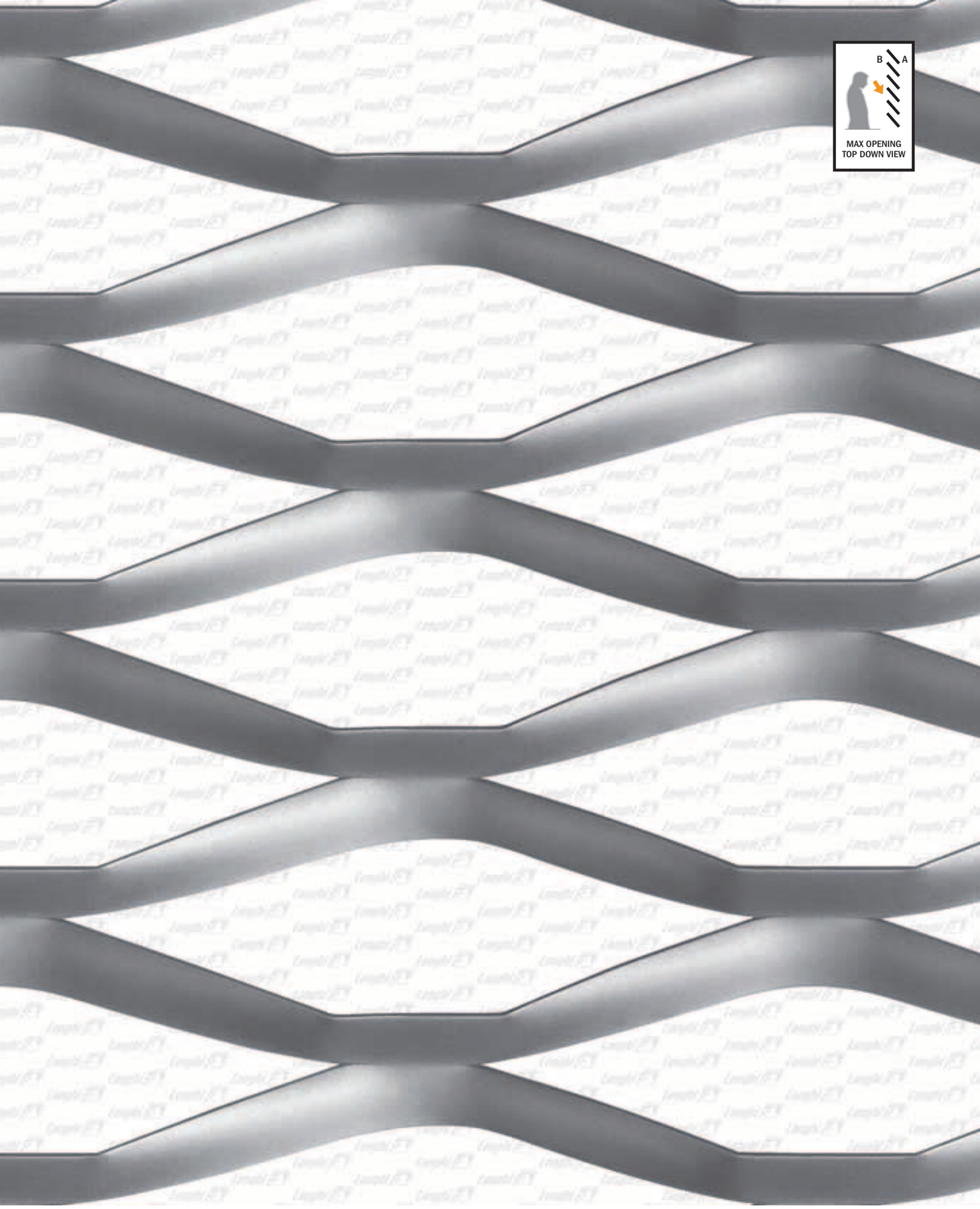


Stadium

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

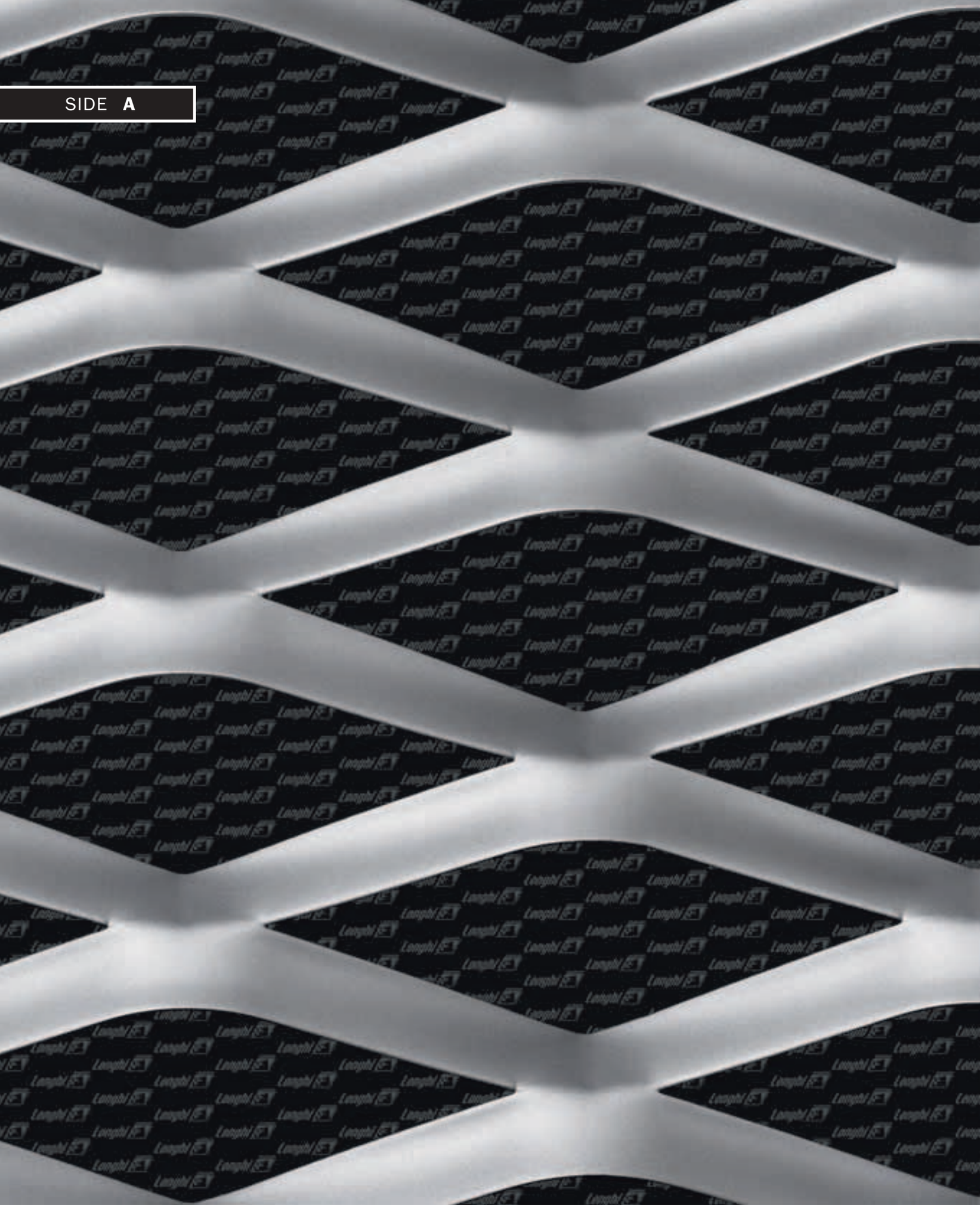
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t





Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 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			

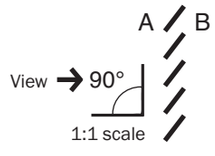
◆ Framing profiles: see page 192



Coliseum

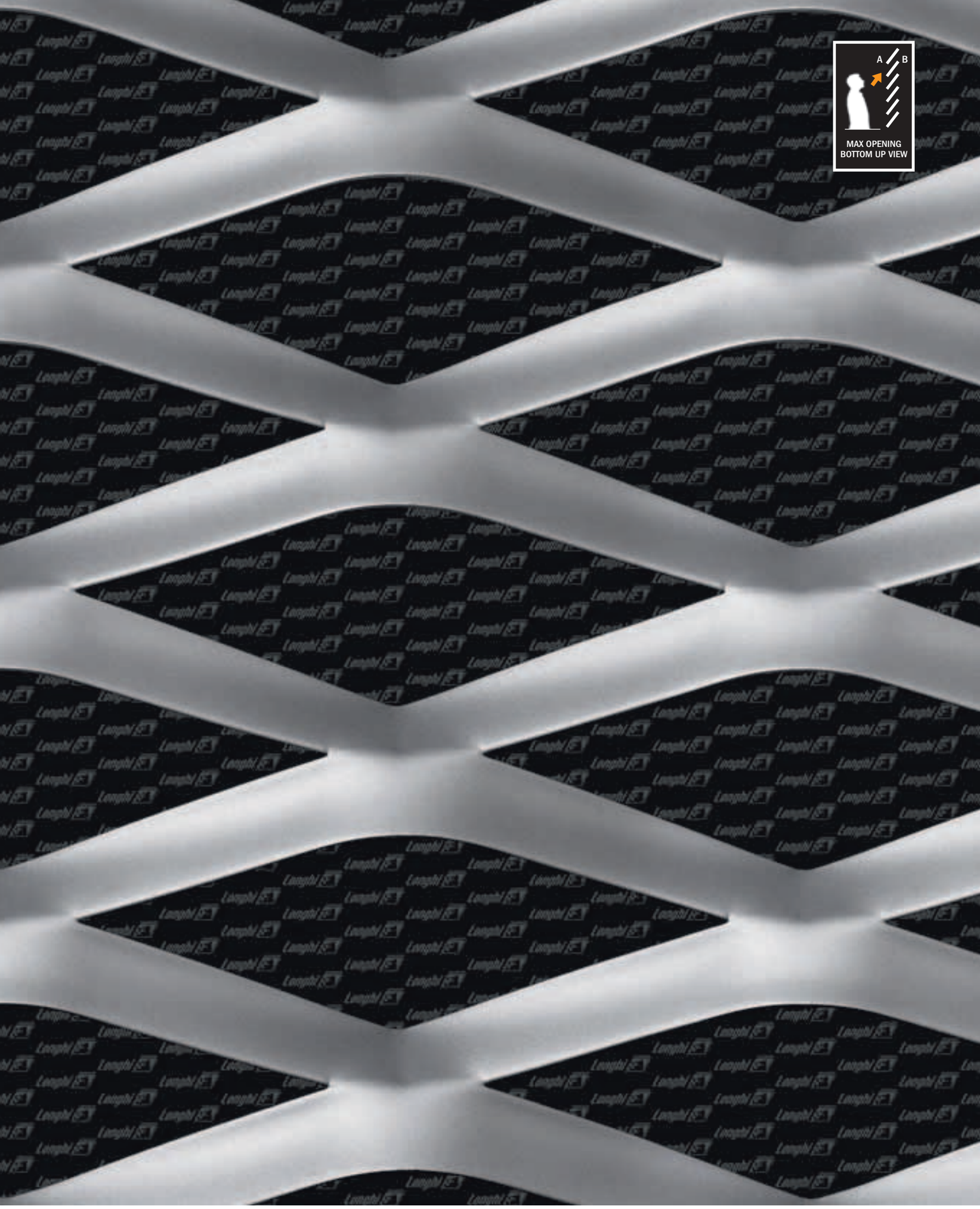
R 200 x 75 (80) - 24 x t

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



Fills

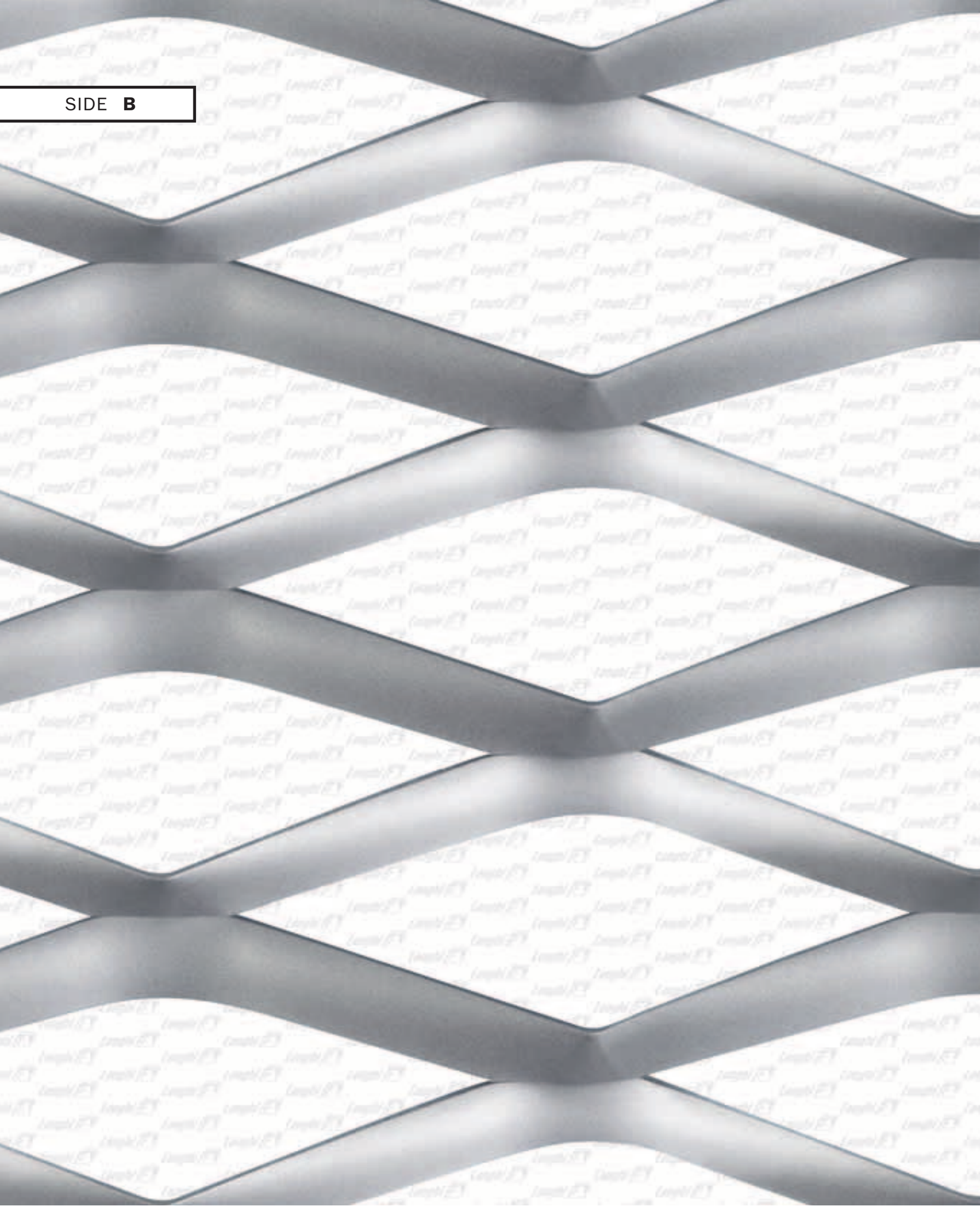
protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 200 x 75 (80) - 24 x **1,5**	7,10	2,40	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 2500 Max	measured at the centre 32 (~) ◆	52,3 (~)
R 200 x 75 (80) - 24 x **2,0**	9,40	3,20			
R 200 x 75 (80) - 24 x **3,0**	14,10	4,70			

◆ Framing profiles: see page 192

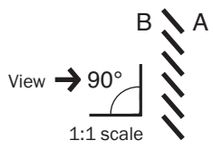
SIDE **B**



Coliseum

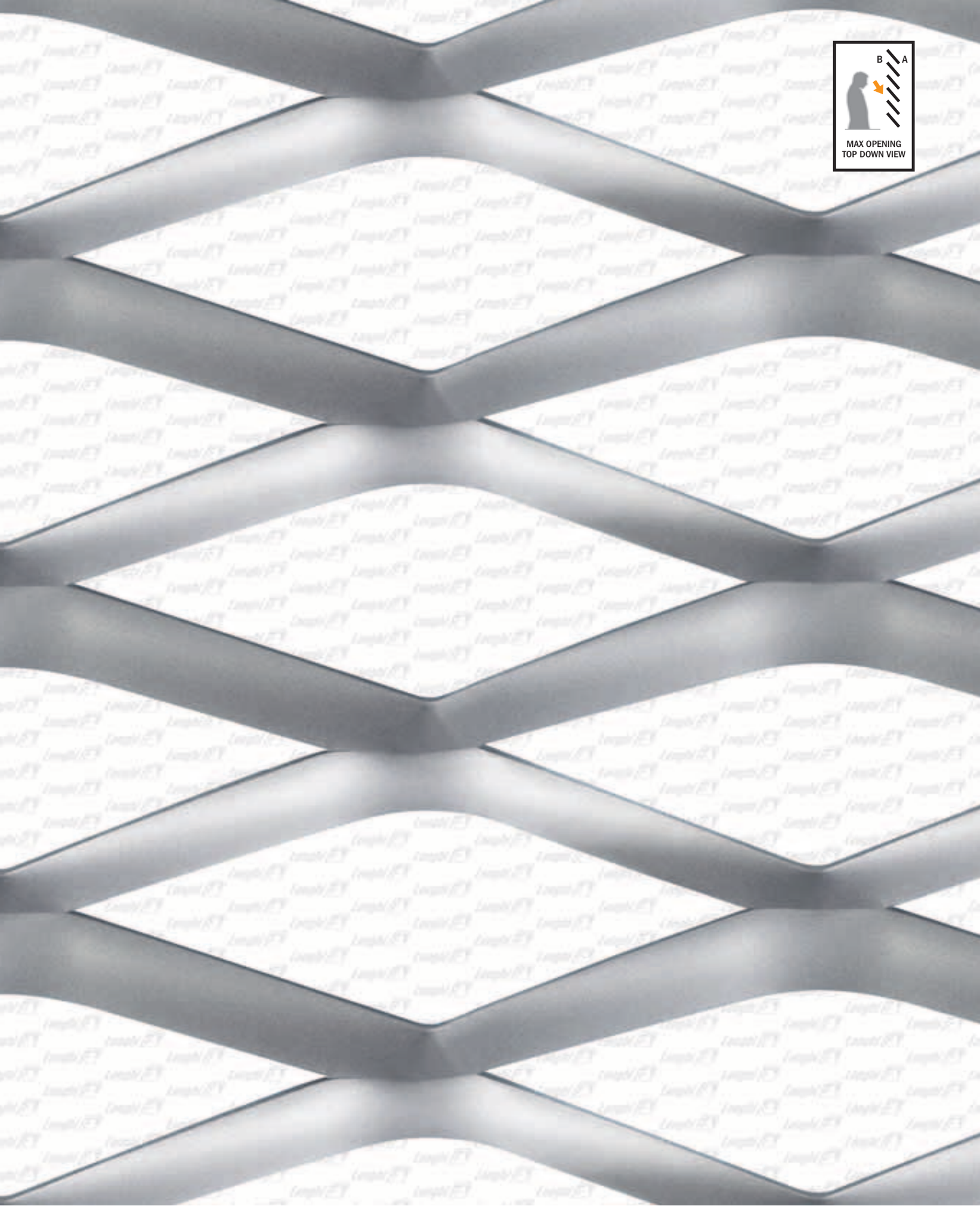
R 200 x 75 (80) - 24 x t

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



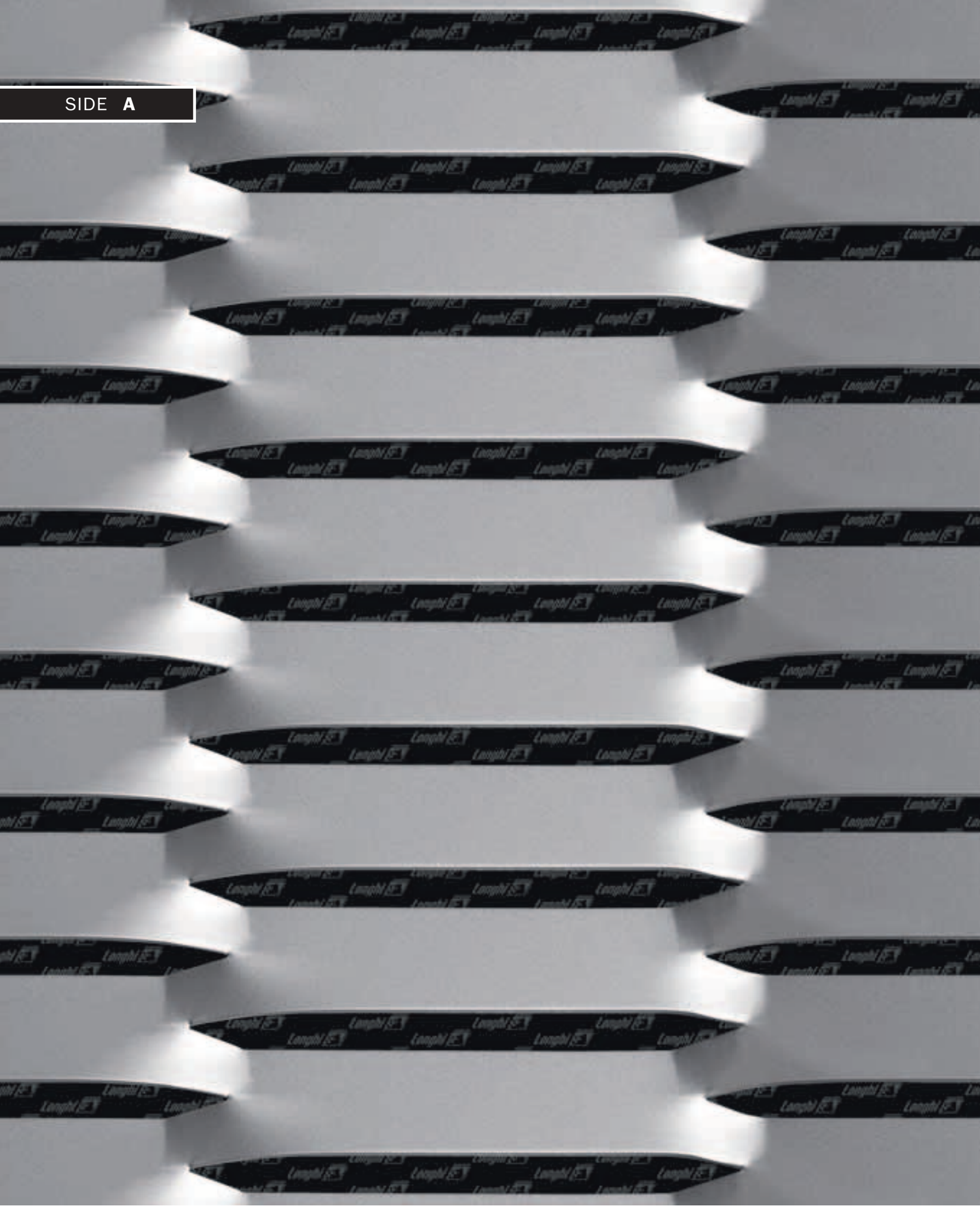
Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 200 x 75 (80) - 24 x **1,5**	7,10	2,40	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000 **LW** 2000 - 2500 x **SW** 2500 Max	measured at the centre 32 (~) ◆	52,3 (~)
R 200 x 75 (80) - 24 x **2,0**	9,40	3,20			
R 200 x 75 (80) - 24 x **3,0**	14,10	4,70			

◆ Framing profiles: see page 192



Phoenix

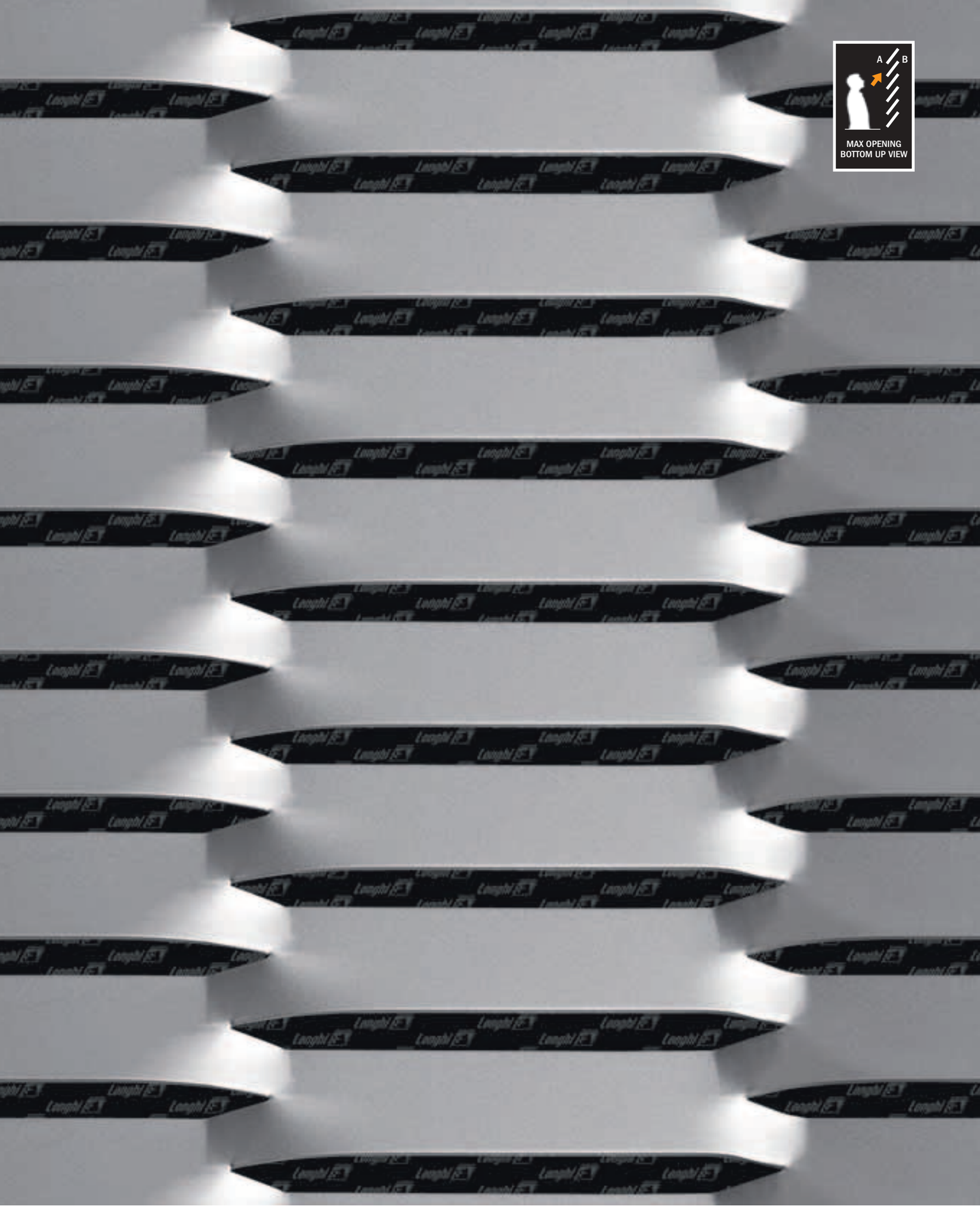
E 250 x 35 (35) - 15 x t

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

A B

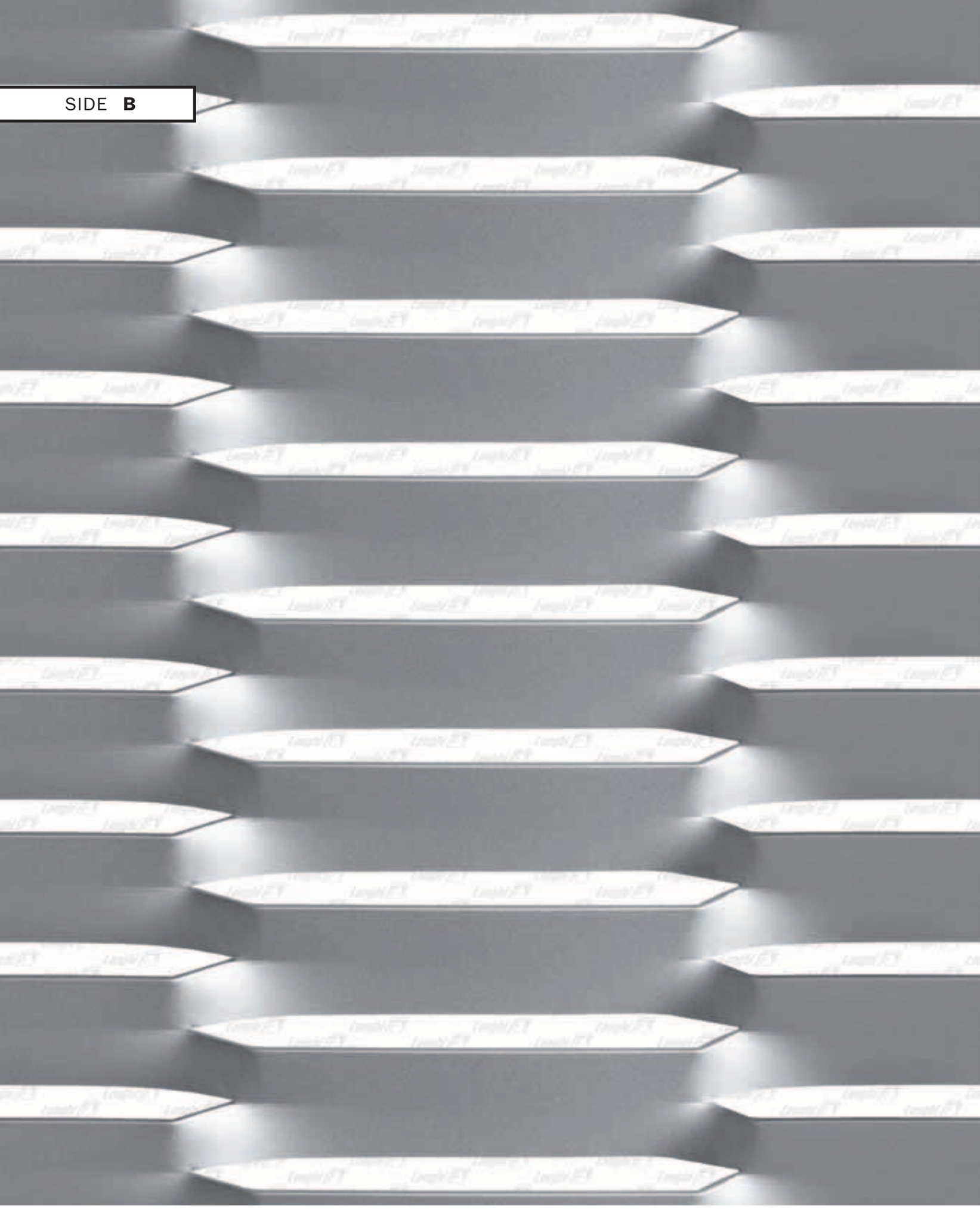
View → 90°

1:1 scale



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 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			

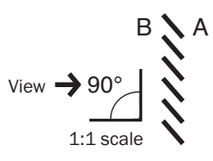
◆ Framing profiles: see page 192



Phoenix

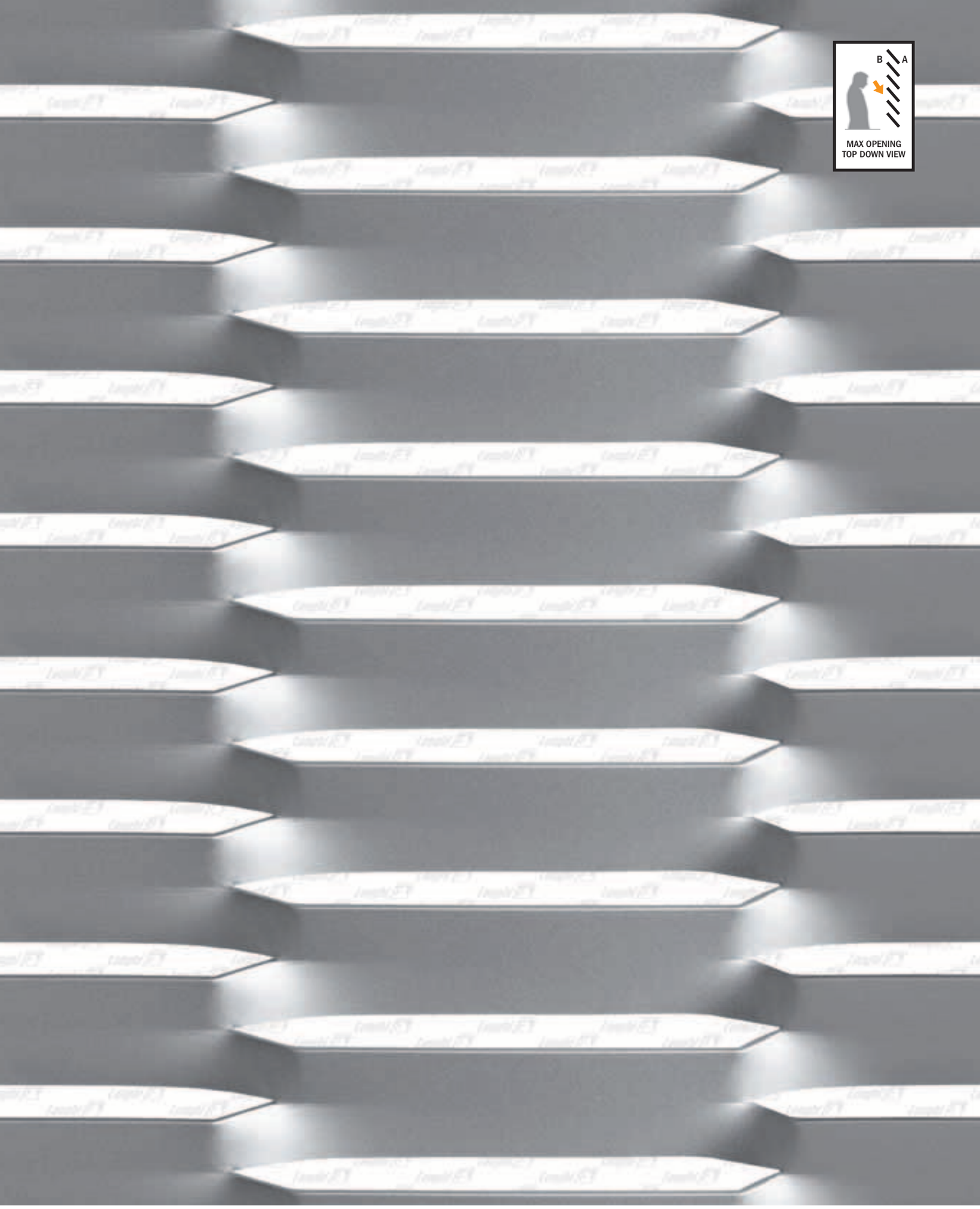
E 250 x 35 (35) - 15 x t

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



Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 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

Delta

R 250 x 90 (96) - 25 x t

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

A B

View → 90°

1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 250 x 90 (96) - 25 x **1,5**	6,30	2,10	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 37 (~) ◆	59 (~)
R 250 x 90 (96) - 25 x **2,0**	8,40	2,80			
R 250 x 90 (96) - 25 x **3,0**	12,60	4,20			

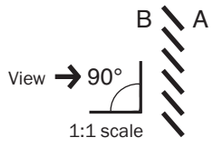
◆ Framing profiles: see page 192

SIDE **B**

Delta

R 250 x 90 (96) - 25 x t

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



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 250 x 90 (96) - 25 x **1,5**	6,30	2,10	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 37 (~) ◆	59 (~)
R 250 x 90 (96) - 25 x **2,0**	8,40	2,80			
R 250 x 90 (96) - 25 x **3,0**	12,60	4,20			

◆ Framing profiles: see page 192

Estesa

R 270 x 100 (100) - 30 x t

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

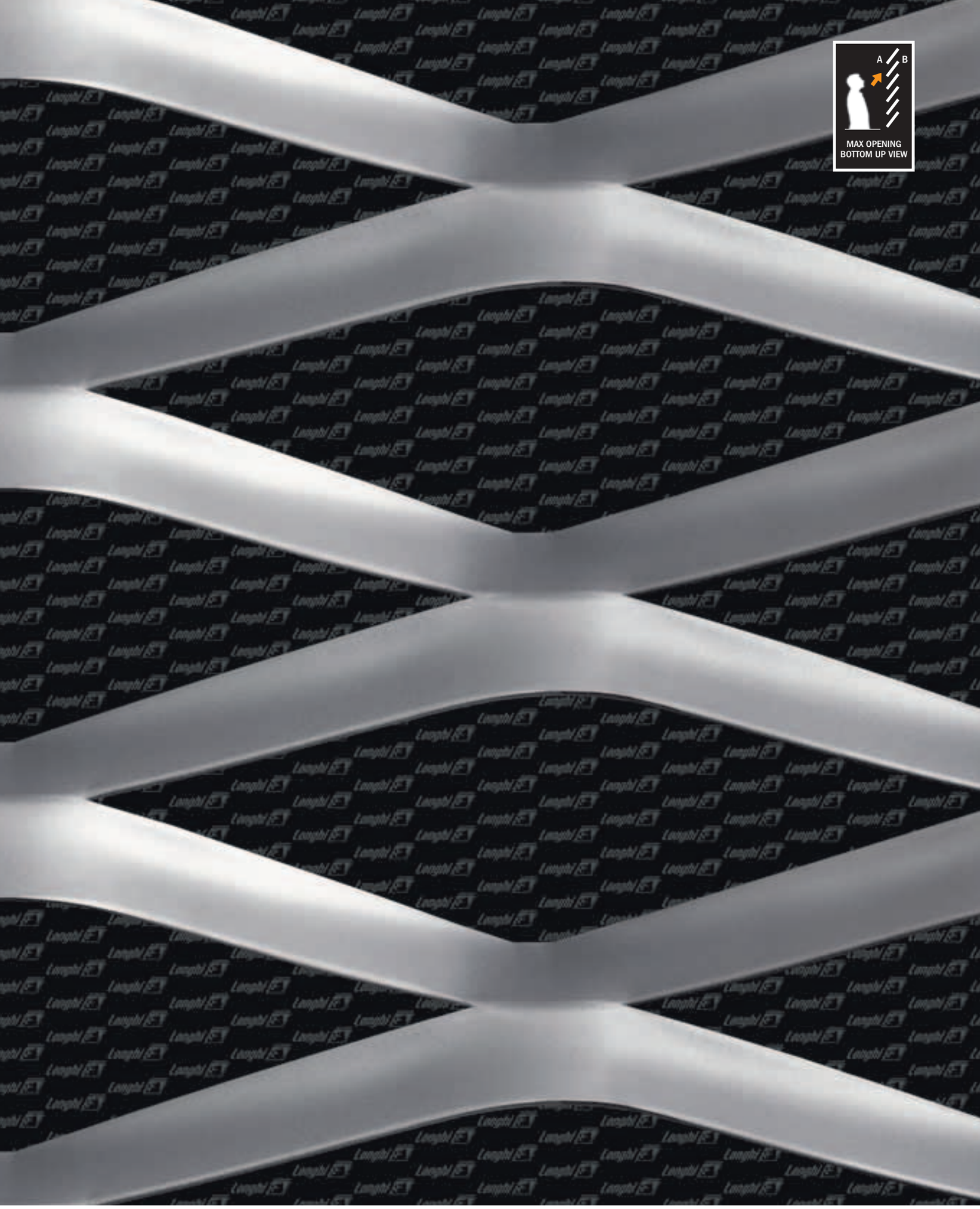
A B

View → 90°

1:1 scale

Fils

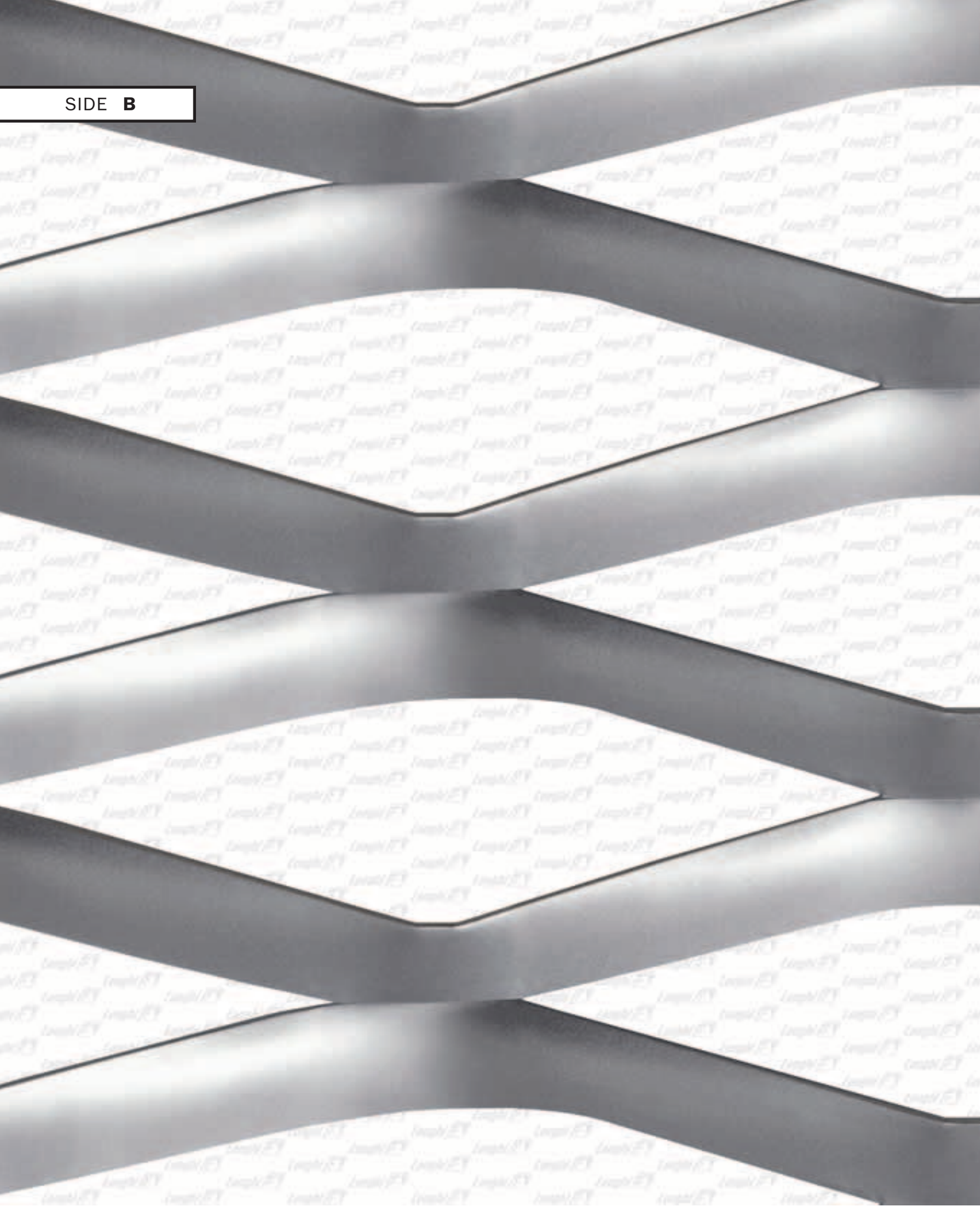
protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 270 x 100 (100) - 30 x **1,5**	7,50	2,50	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 49 (~) ◆	52,8 (~)
R 270 x 100 (100) - 30 x **2,0**	10,00	3,40			
R 270 x 100 (100) - 30 x **3,0**	15,00	5,00			

◆ Framing profiles: see page 192

SIDE **B**



Estesa

R 270 x 100 (100) - 30 x t

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

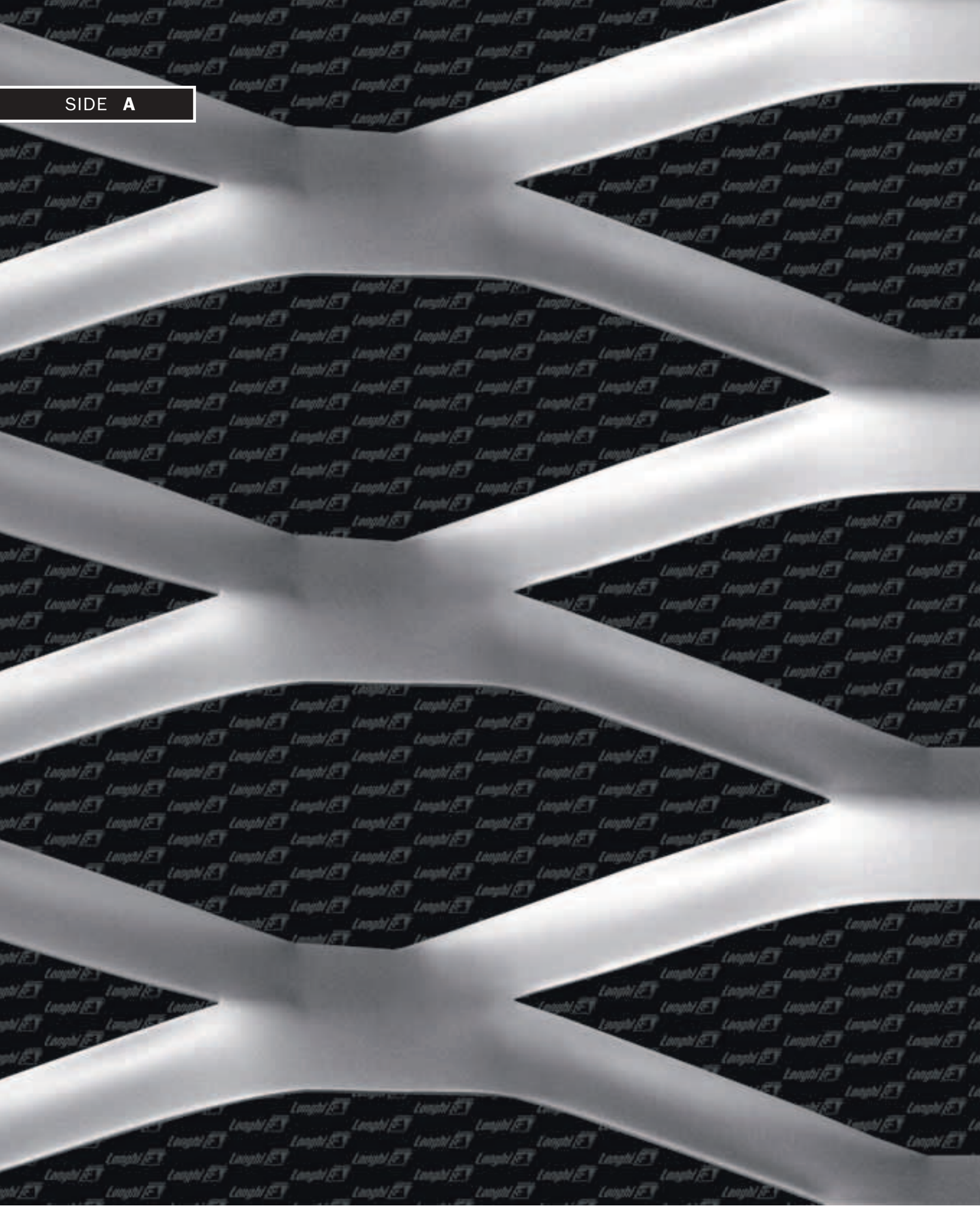
B A

View → 90°

1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 270 x 100 (100) - 30 x **1,5**	7,50	2,50	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 49 (~) ◆	52,8 (~)
R 270 x 100 (100) - 30 x **2,0**	10,00	3,40			
R 270 x 100 (100) - 30 x **3,0**	15,00	5,00			

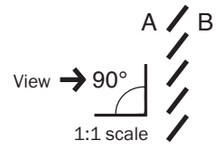
◆ Framing profiles: see page 192



Vela 300

E 300 x 100 (100) - 28 x t

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



Fills

protech

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 300 x 100 (100) - 28 x **1,5**	6,60	2,30	**LW** 2100 x **SW** 2500 Max	measured at the centre 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			

◆ Framing profiles: see page 192

SIDE **B**

Vela 300

E 300 x 100 (100) - 28 x t

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

B A

View → 90°

1:1 scale

Fils

protech

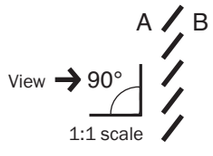
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 300 x 100 (100) - 28 x **1,5**	6,60	2,30	**LW** 2100 x **SW** 2500 Max	measured at the centre 42 (~) ◆	54,5 (~)
E 300 x 100 (100) - 28 x **2,0**	8,80	3,20			
E 300 x 100 (100) - 28 x **3,0**	/	4,60			

◆ Framing profiles: see page 192

Meridiana

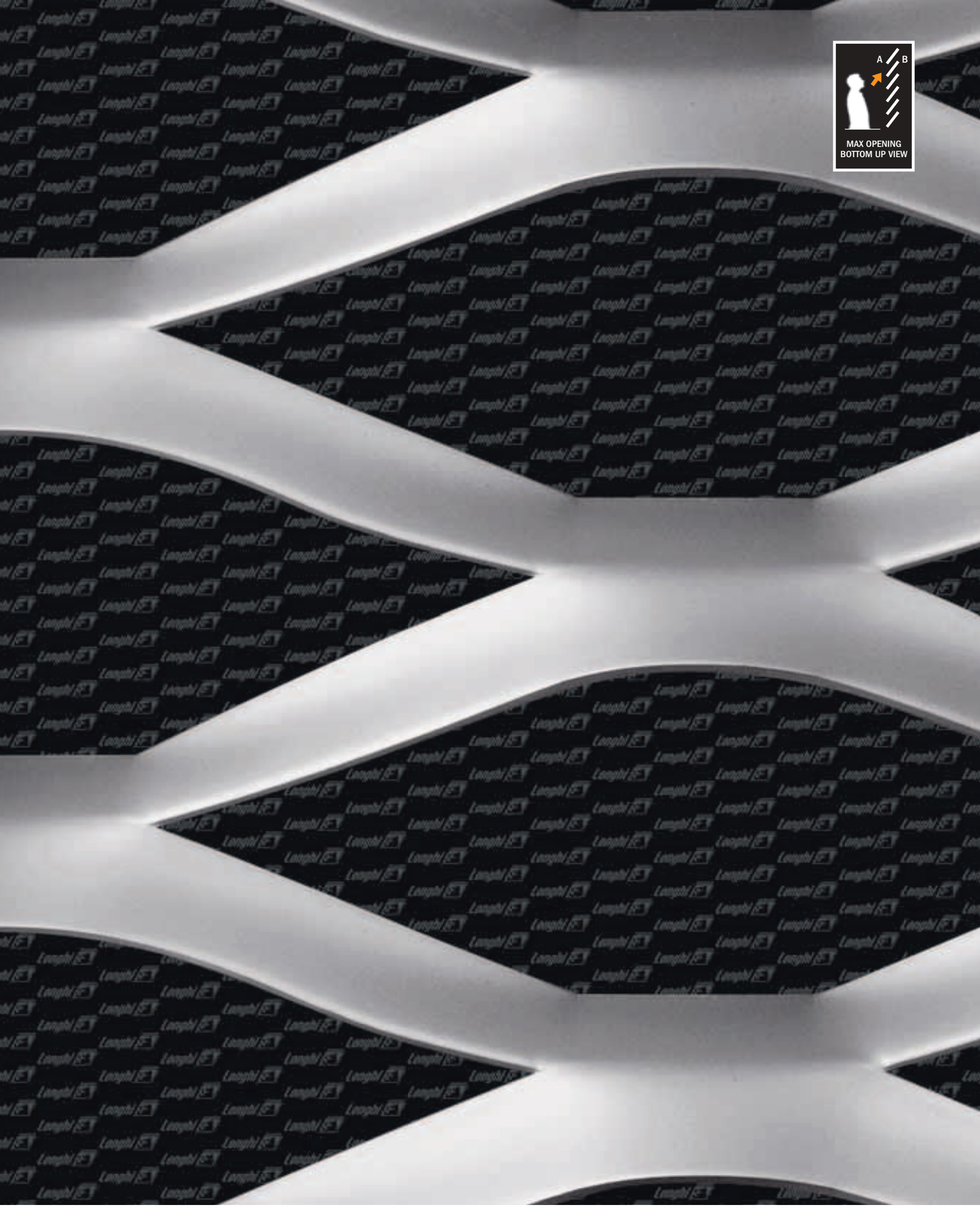
E 350 x 120 (120) - 33 x t

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



Fils

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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.	measured at the centre 52 (~) ◆	59 (~)
E 350 x 120 (120) - 33 x **3,0**	12,90	4,50			

◆ Framing profiles: see page 192

SIDE **B**

Meridiana

E 350 x 120 (120) - 33 x t

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

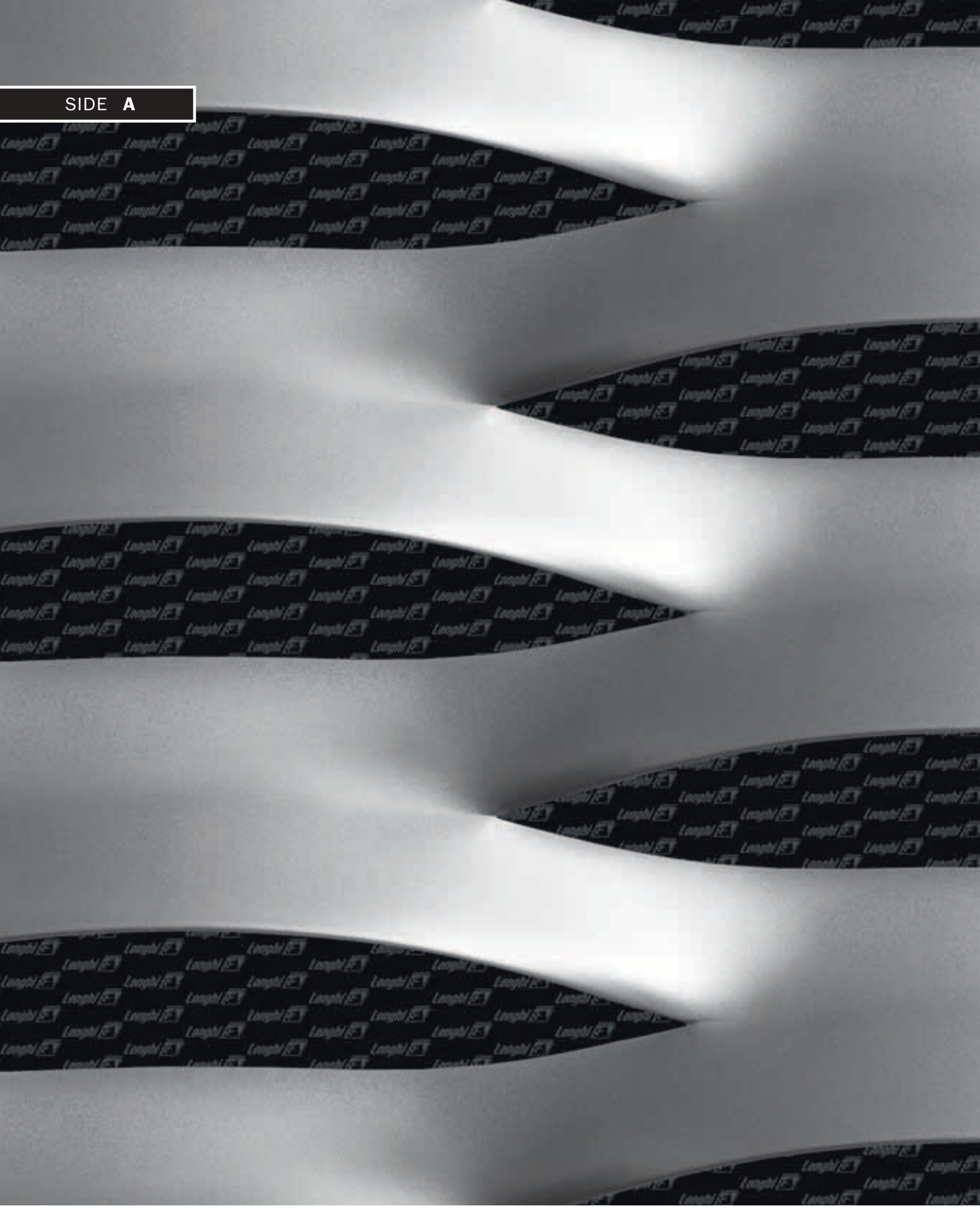
B A

View → 90°

1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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.	measured at the centre 52 (~) ◆	59 (~)
E 350 x 120 (120) - 33 x **3,0**	12,90	4,50			

◆ Framing profiles: see page 192



Luna 400

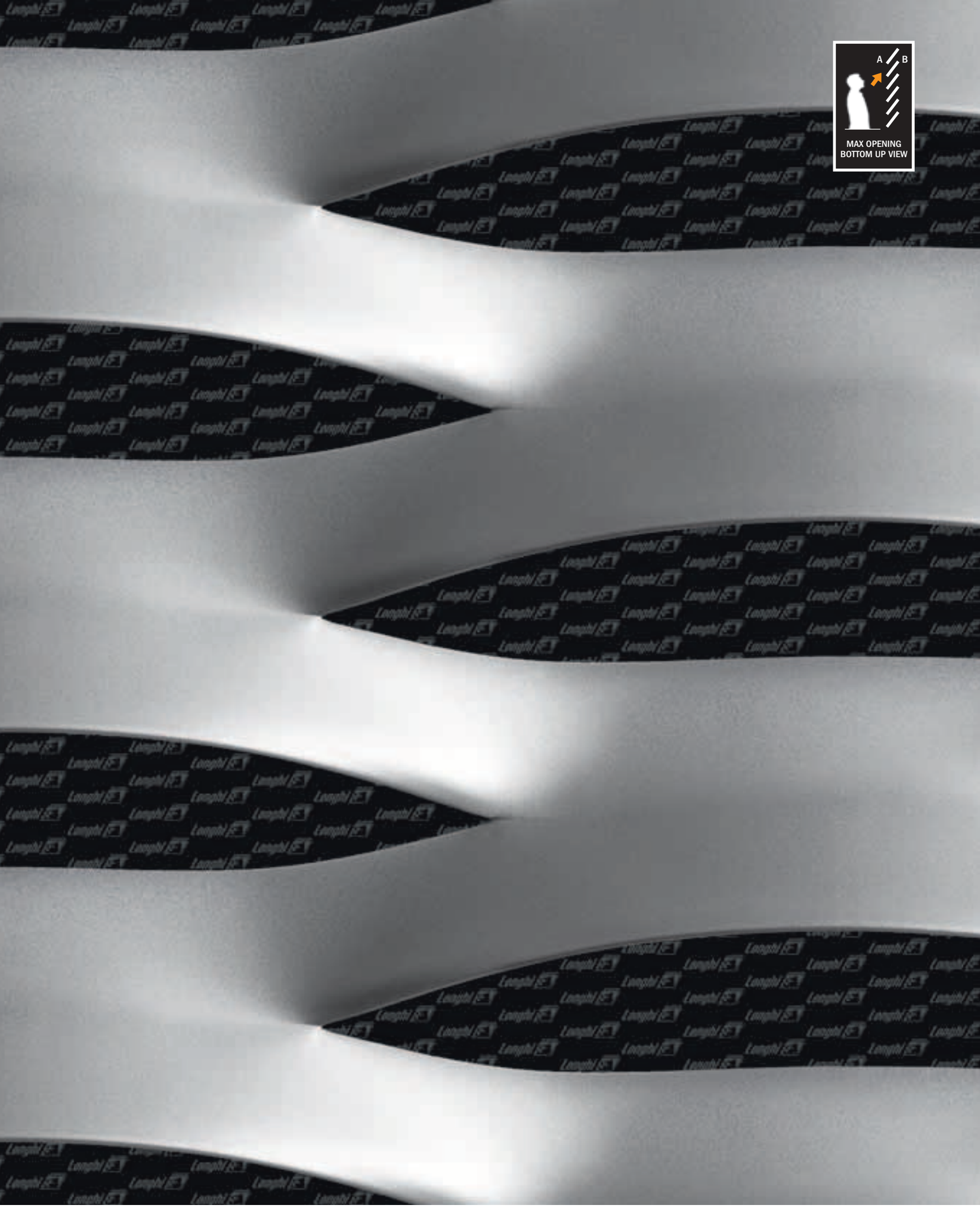
T 400 x 150 (100) - 40 x t

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

A B

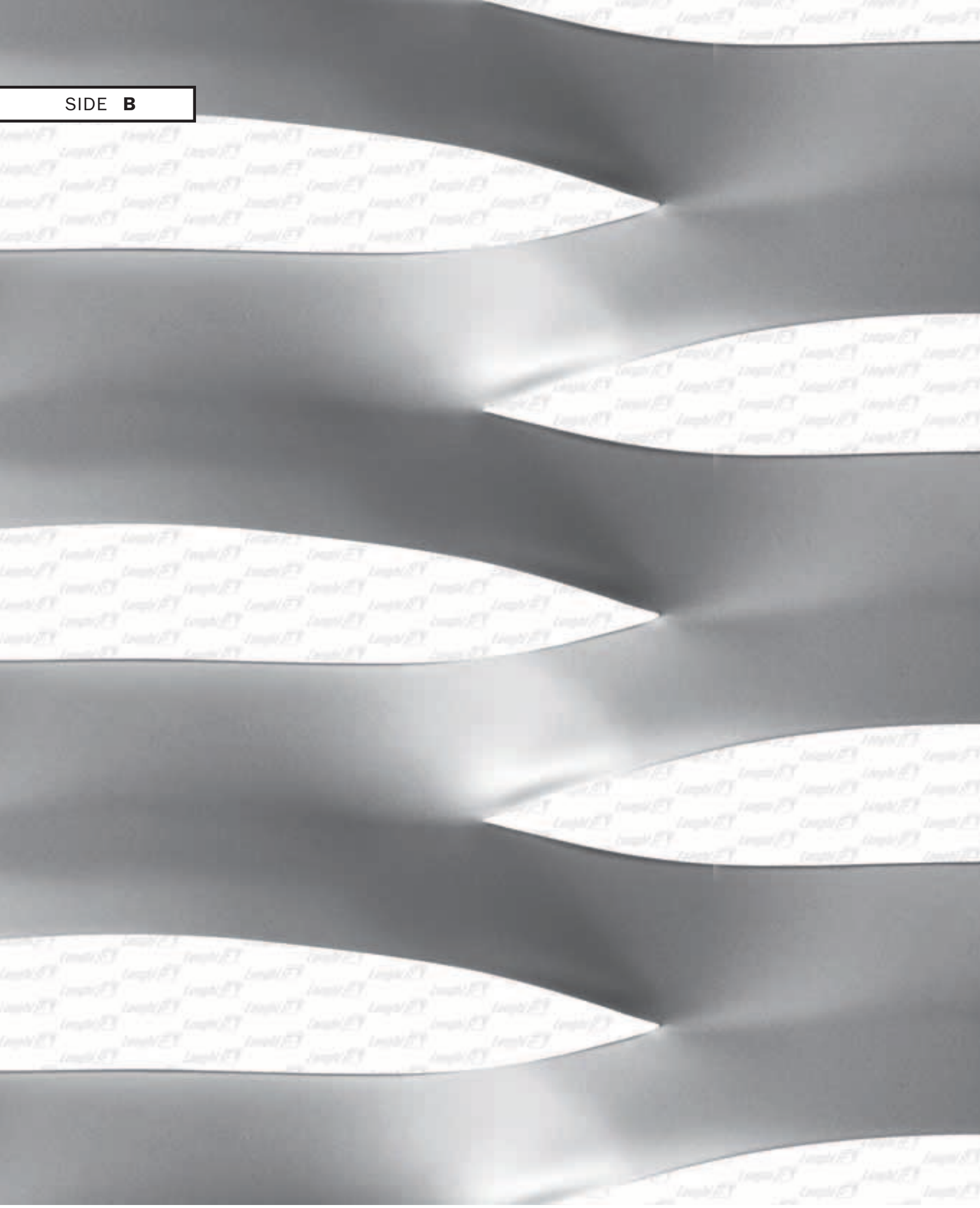
View → 90°

1:1 scale



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
T 400 x 150 (100) - 40 x **2,0**	12,50	4,30	**LW** 1250 x **SW** 2500	measured at the centre 41 (~) ◆	27,5 (~)
T 400 x 150 (100) - 40 x **3,0**	18,70	6,50			

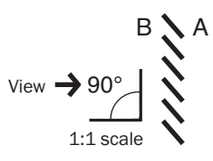
◆ Framing profiles: see page 192



Luna 400

T 400 x 150 (100) - 40 x t

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



Fills

protech

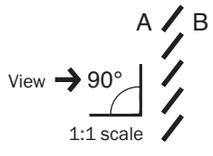
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
T 400 x 150 (100) - 40 x **2,0**	12,50	4,30	**LW** 1250 x **SW** 2500	measured at the centre 41 (~) ◆	27,5 (~)
T 400 x 150 (100) - 40 x **3,0**	18,70	6,50			

◆ Framing profiles: see page 192

Italy

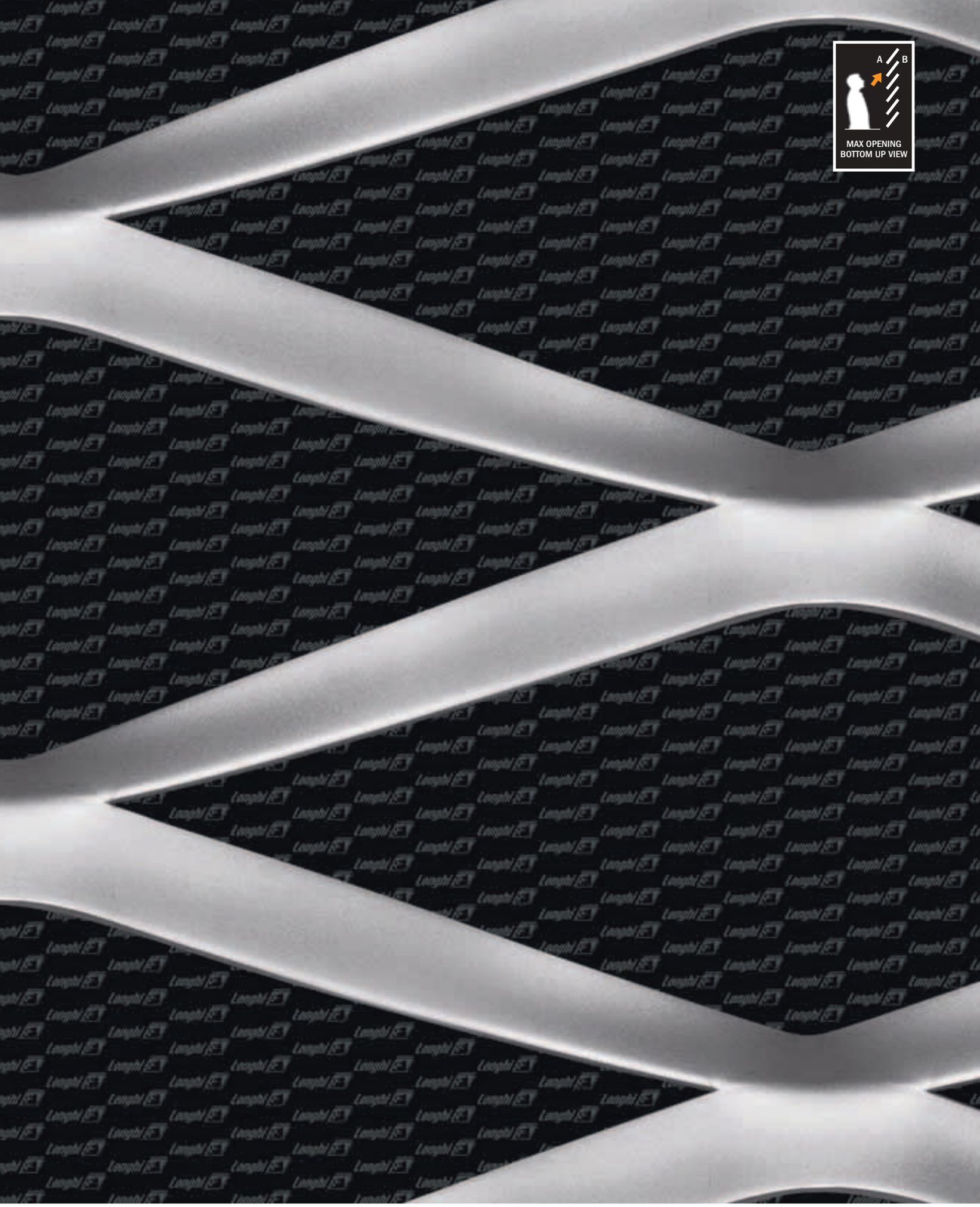
R 400 x 140 (140) - 33 x t

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



Fills

protech



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 400 x 140 (140) - 33 x **2,0**	7,20	2,60	**LW** 1250 x **SW** 3000 c.a. **LW** 2200 x **SW** 2500 c.a.	measured at the centre 53 (~) ◆	63 (~)
R 400 x 140 (140) - 33 x **3,0**	11,00	3,80			

◆ Framing profiles: see page 192

SIDE **B**

Italy

R 400 x 140 (140) - 33 x t

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

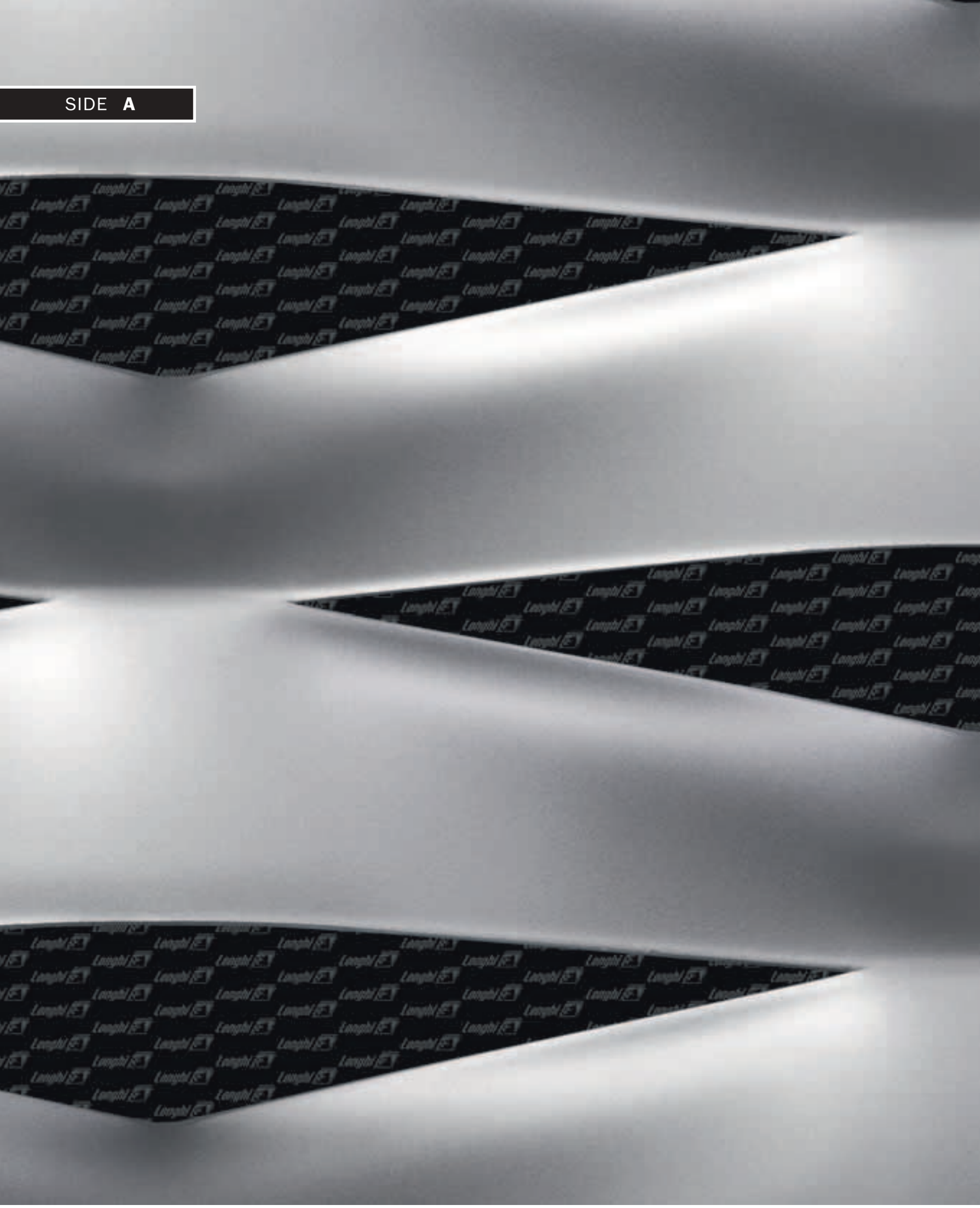
B A

View → 90°

1:1 scale

Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 400 x 140 (140) - 33 x **2,0**	7,20	2,60	**LW** 1250 x **SW** 3000 c.a. **LW** 2200 x **SW** 2500 c.a.	measured at the centre 53 (~) ◆	63 (~)
R 400 x 140 (140) - 33 x **3,0**	11,00	3,80			

◆ Framing profiles: see page 192



EF 400

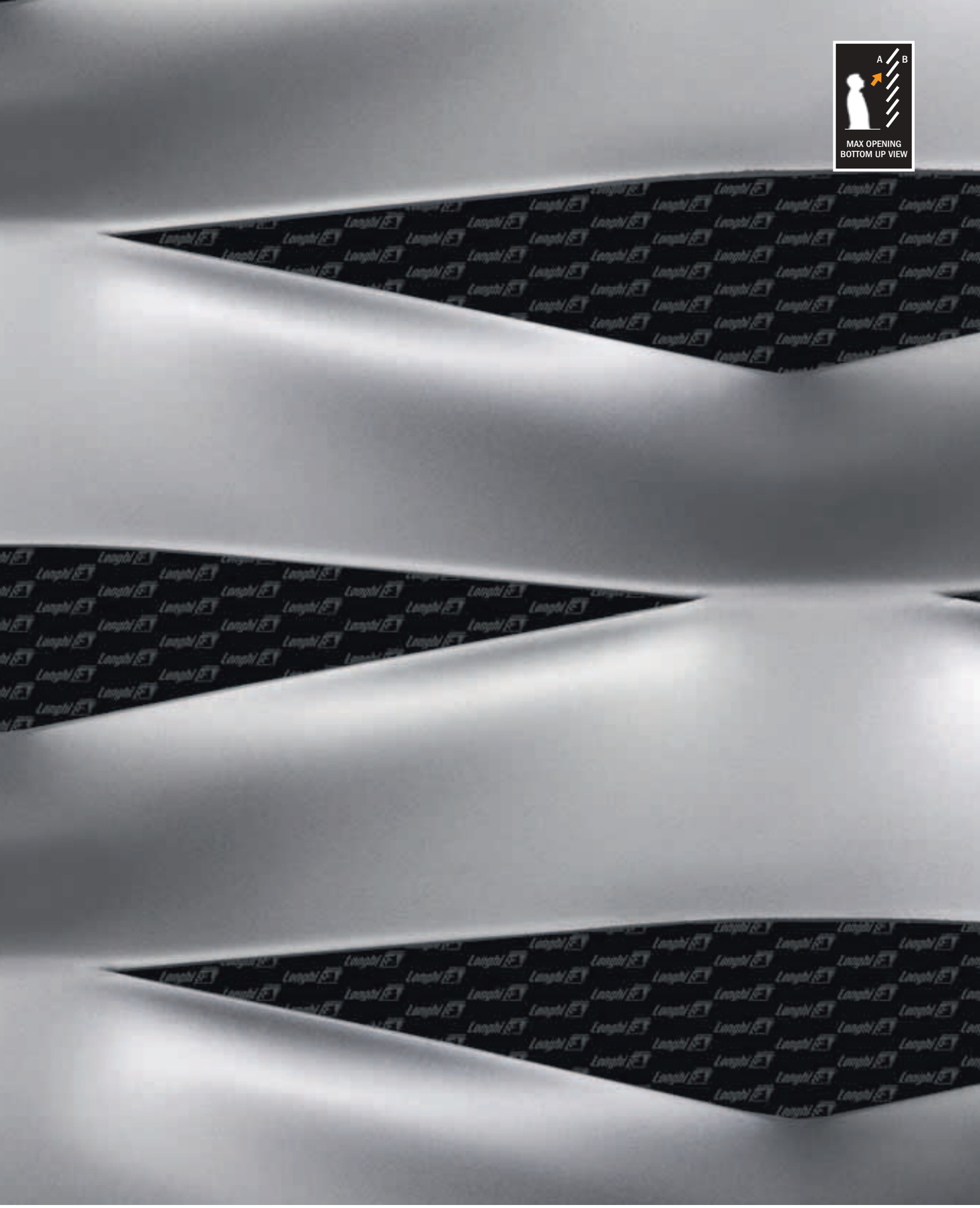
R 400 x 140 (180) - 80 x t

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

A B

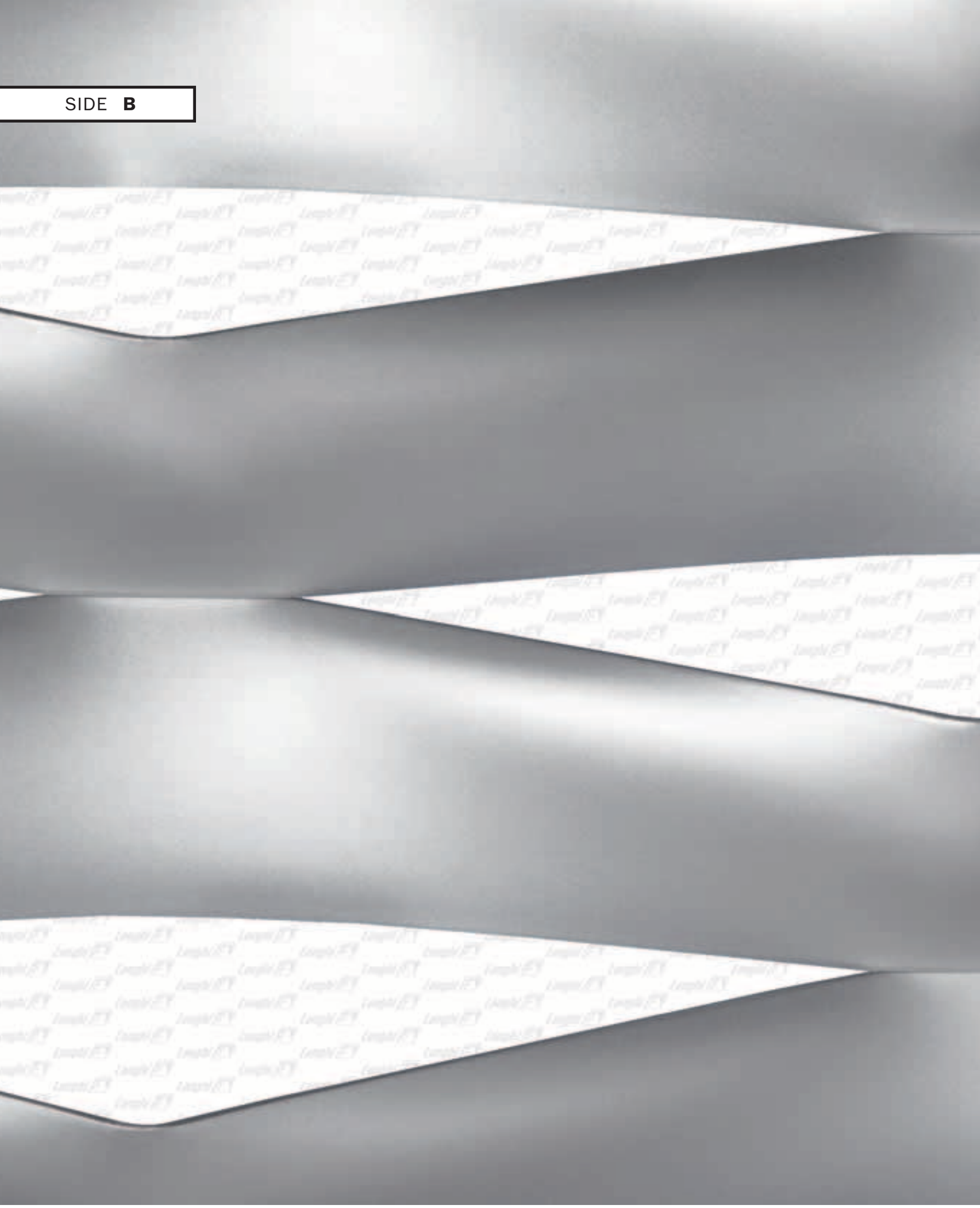
View → 90°

1:1 scale



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 400 x 140 (180) - 80 x **1,5**	10,50	/	**LW** 1250 x **SW** 2500	measured at the centre 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			

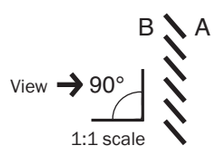
◆ Framing profiles: see page 192

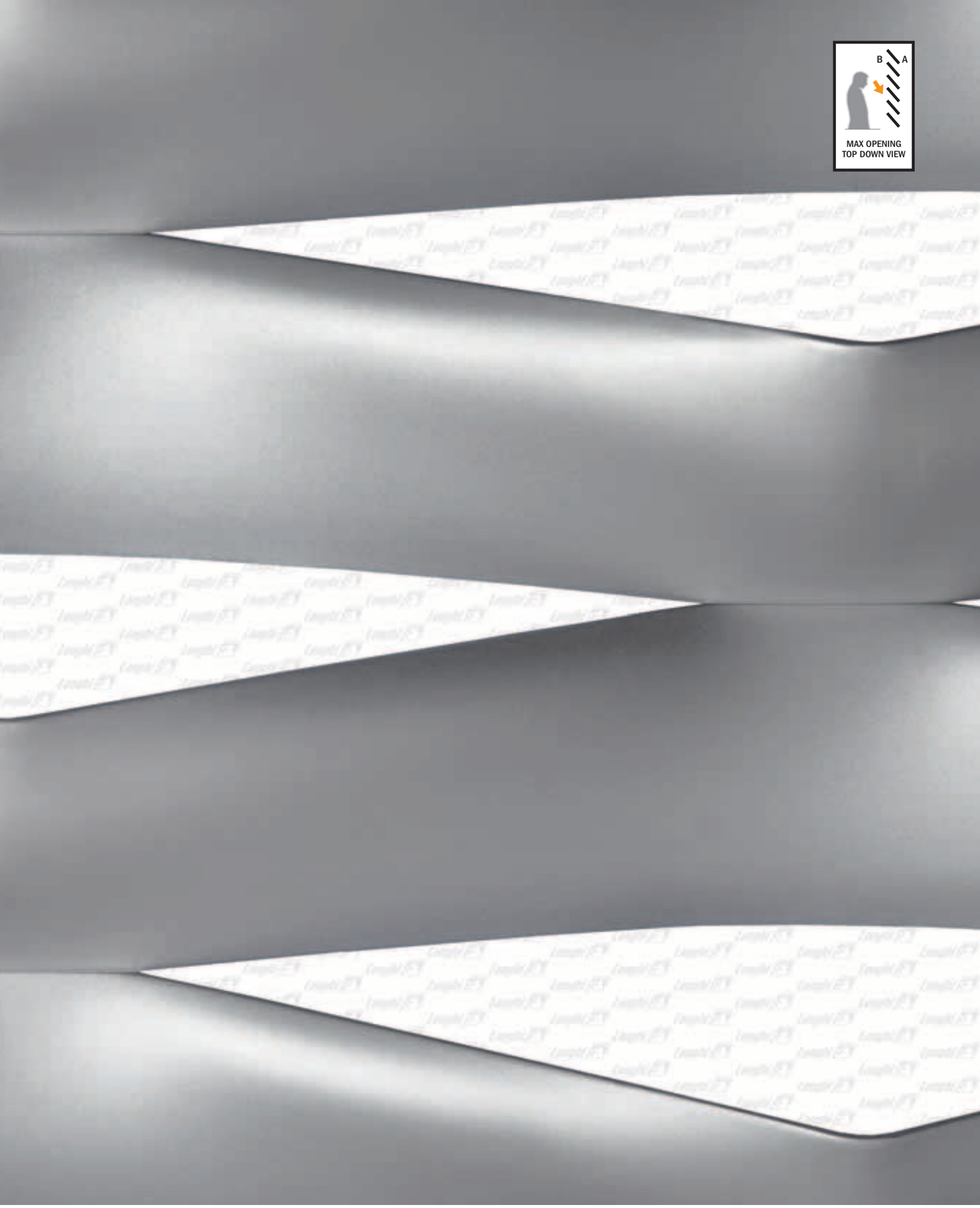


EF 400

R 400 x 140 (180) - 80 x t

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





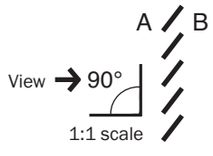
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 400 x 140 (180) - 80 x **1,5**	10,50	/	**LW** 1250 x **SW** 2500	measured at the centre 72 (~) ◆	22 (~)
R 400 x 140 (180) - 80 x **2,0**	14,00	4,80			
R 400 x 140 (180) - 80 x **3,0**	/	7,20			

◆ Framing profiles: see page 192

EF 400/1

R 400 x 140 (230) - 100 x t

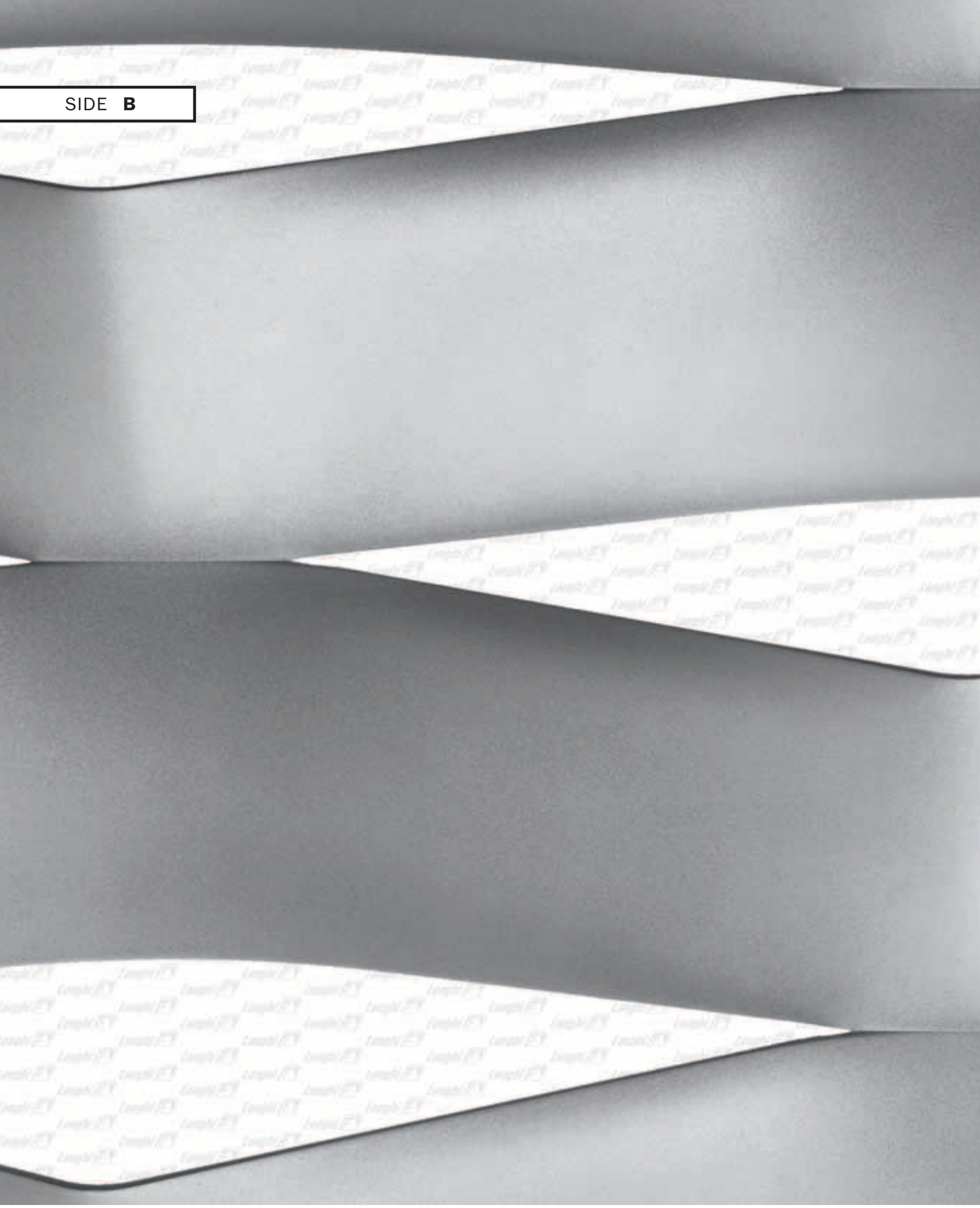
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t



Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 400 x 140 (230) - 100 x **1,5**	10,30	/	**LW** 1250 x **SW** 2500	measured at the centre 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			

◆ Framing profiles: see page 192

SIDE **B**



EF 400/1

R 400 x 140 (230) - 100 x t

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

B A

View → 90°

1:1 scale

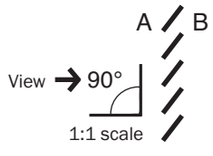
Type - LW x SW (SW actual) - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 400 x 140 (230) - 100 x **1,5**	10,30	/	**LW** 1250 x **SW** 2500	measured at the centre 76 (~) ◆	17 (~)
R 400 x 140 (230) - 100 x **2,0**	13,70	4,70			
R 400 x 140 (230) - 100 x **3,0**	/	7,10			

◆ Framing profiles: see page 192

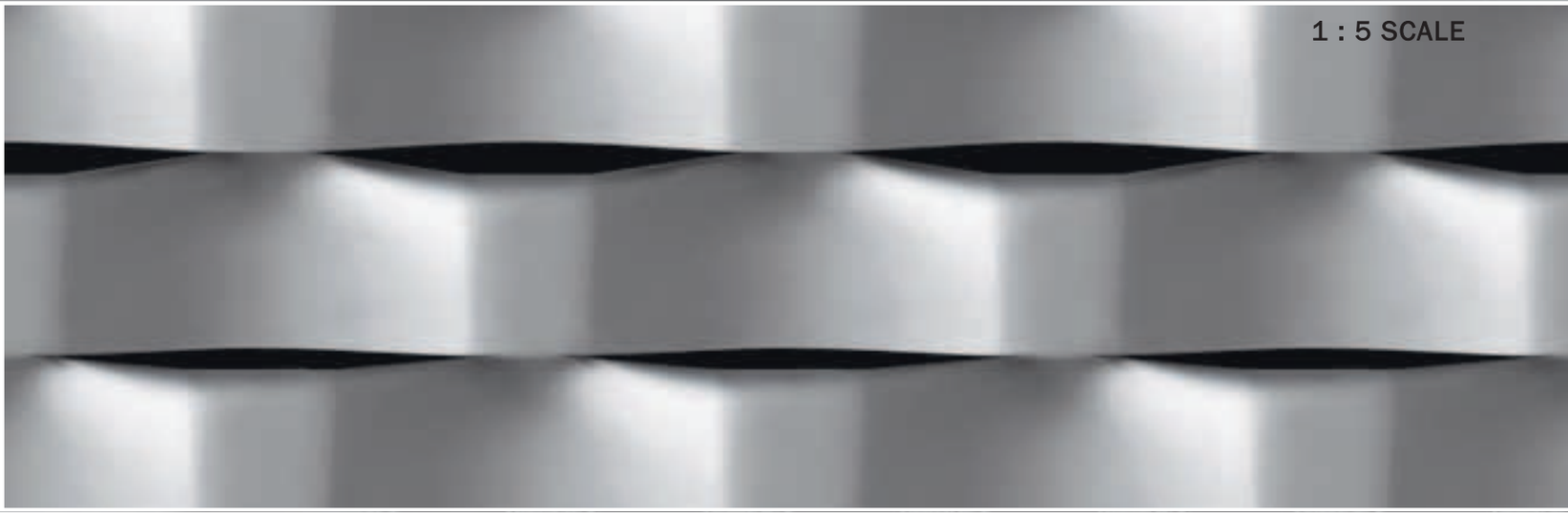
Opera 400

E 400 x 140 (305) - 150 x t

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

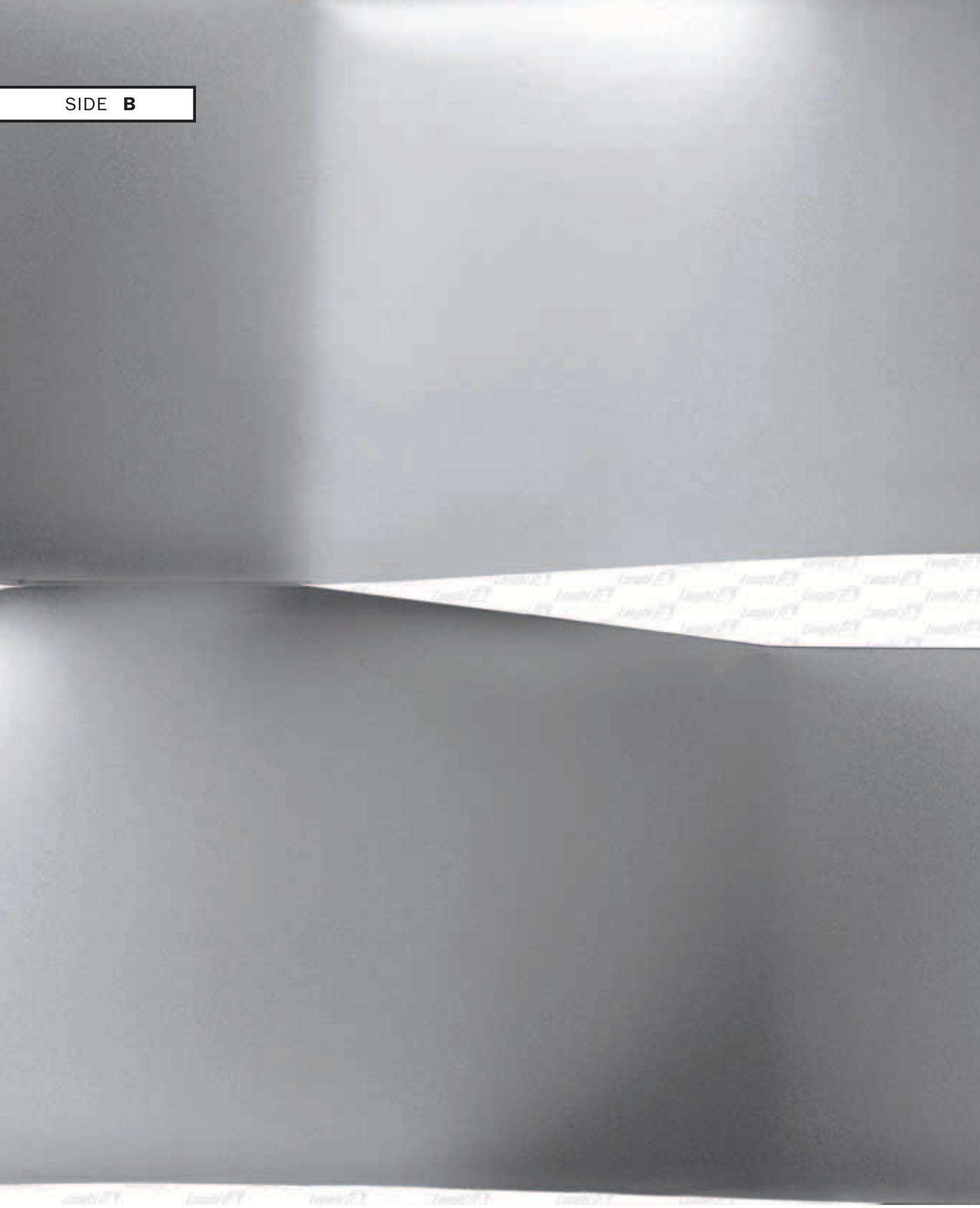


1 : 5 SCALE



Type - LW x SW (SW actual) - w x t (mm)		Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 400 x 140 (305) - 150 x **2,0**		5,40	**LW** 1250 x **SW** 2500	measured at the centre 60 (~) ◆	5,5 (~)
E 400 x 140 (305) - 150 x **3,0**		8,00			

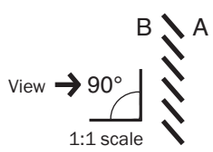
◆ Framing profiles: see page 192



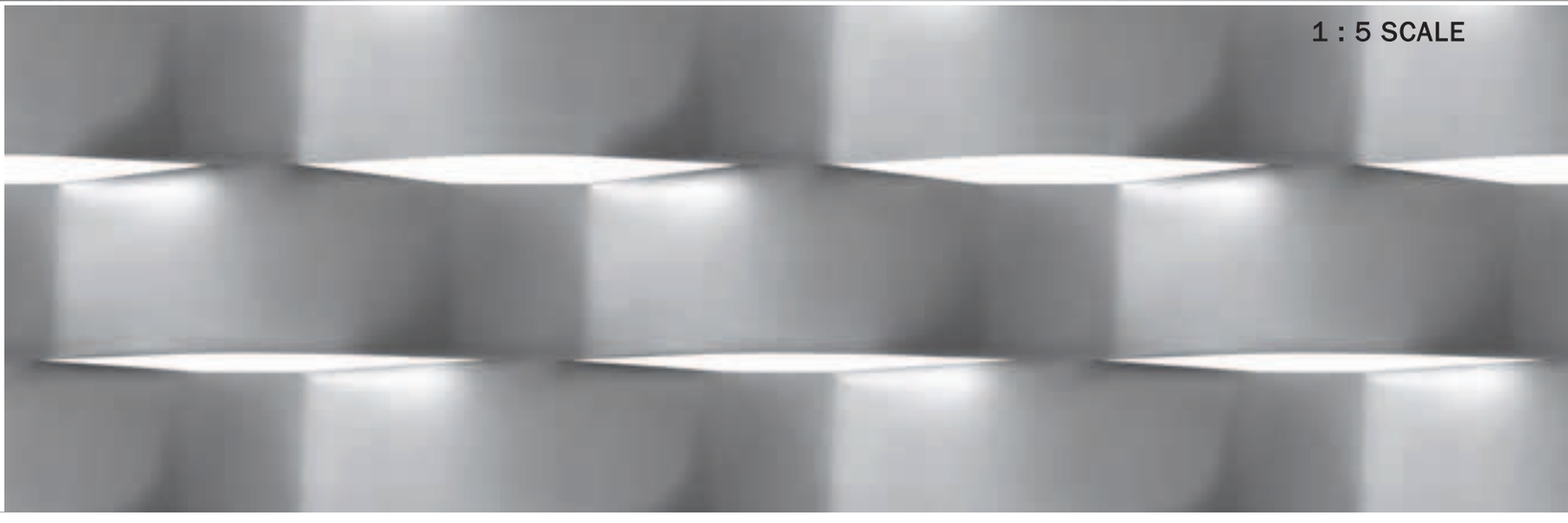
Opera 400

E 400 x 140 (305) - 150 x t

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

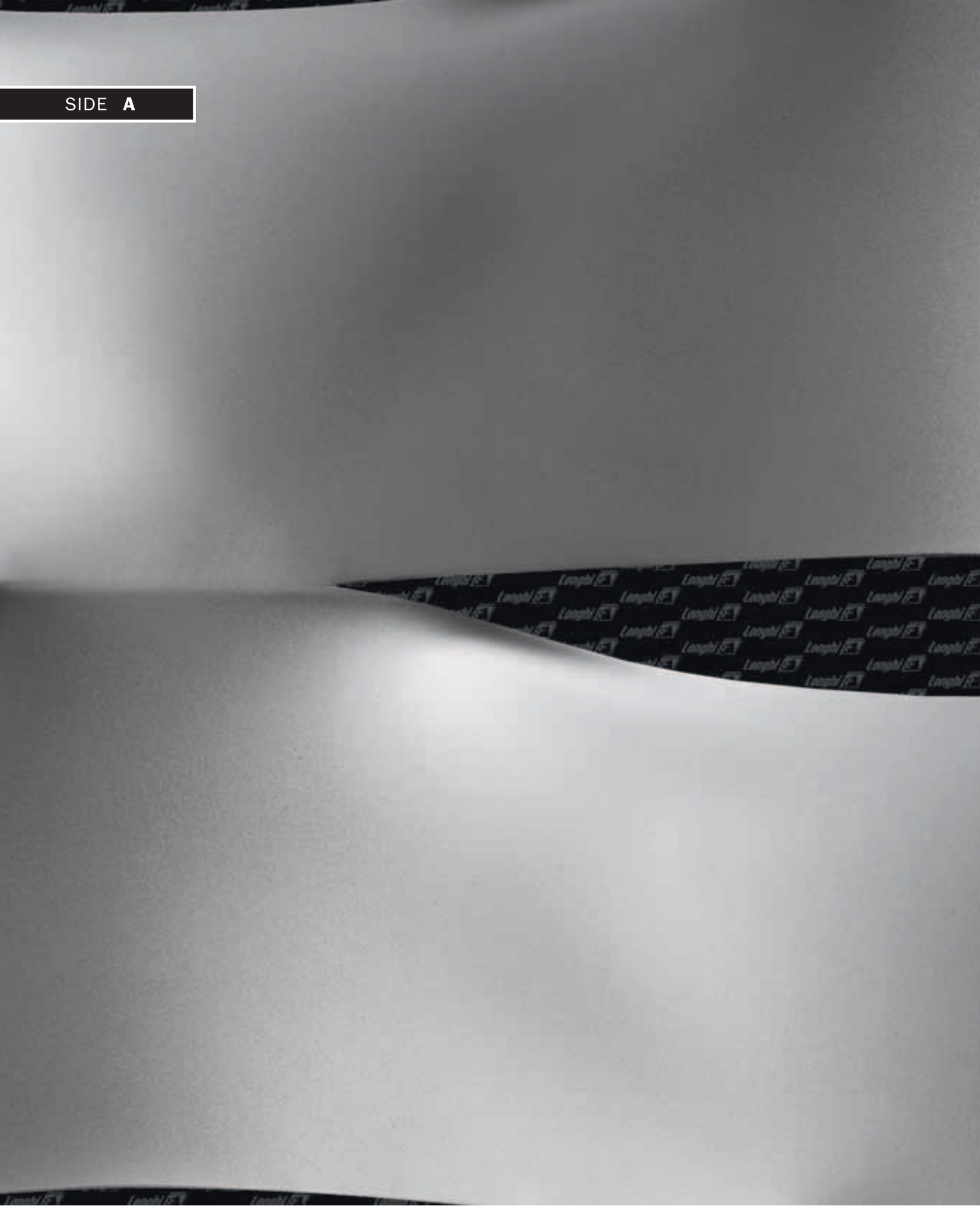


1 : 5 SCALE



Type - LW x SW (SW actual) - w x t (mm)		Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 400 x 140 (305) - 150 x **2,0**		5,40	**LW** 1250 x **SW** 2500	measured at the centre 60 (~) ◆	5,5 (~)
E 400 x 140 (305) - 150 x **3,0**		8,00			

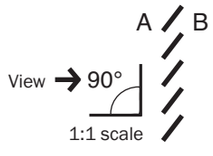
◆ Framing profiles: see page 192



Ellisse 400

T 400 x 140 (320) - 150 x t

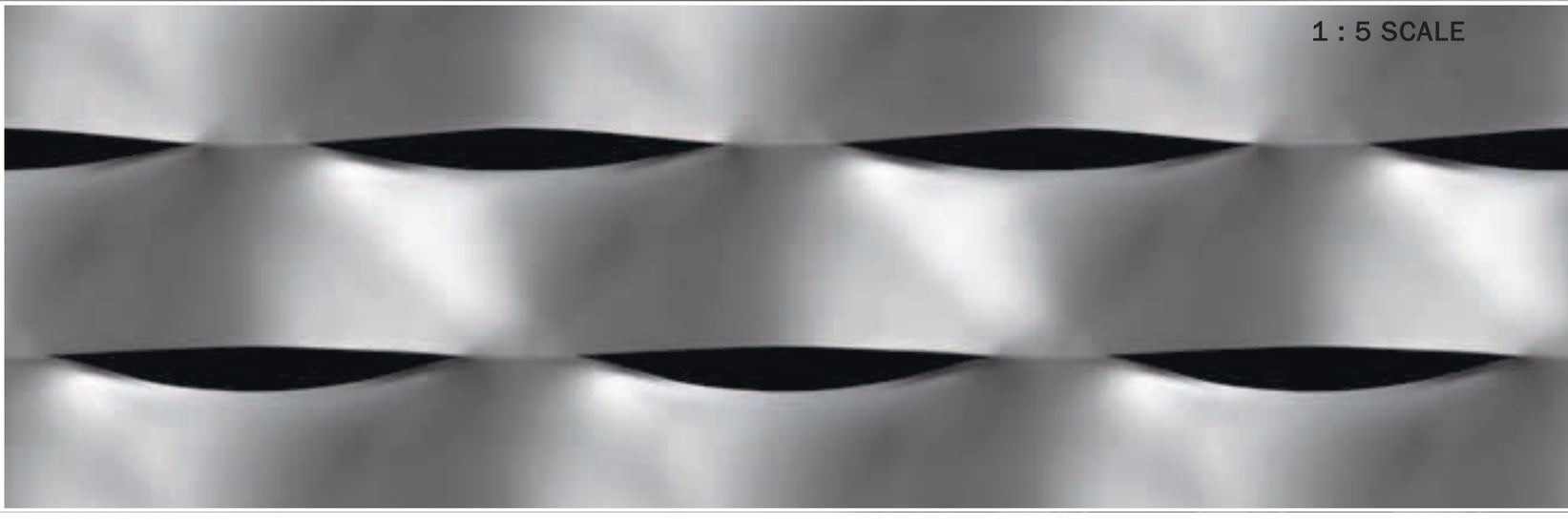
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t



FIIS

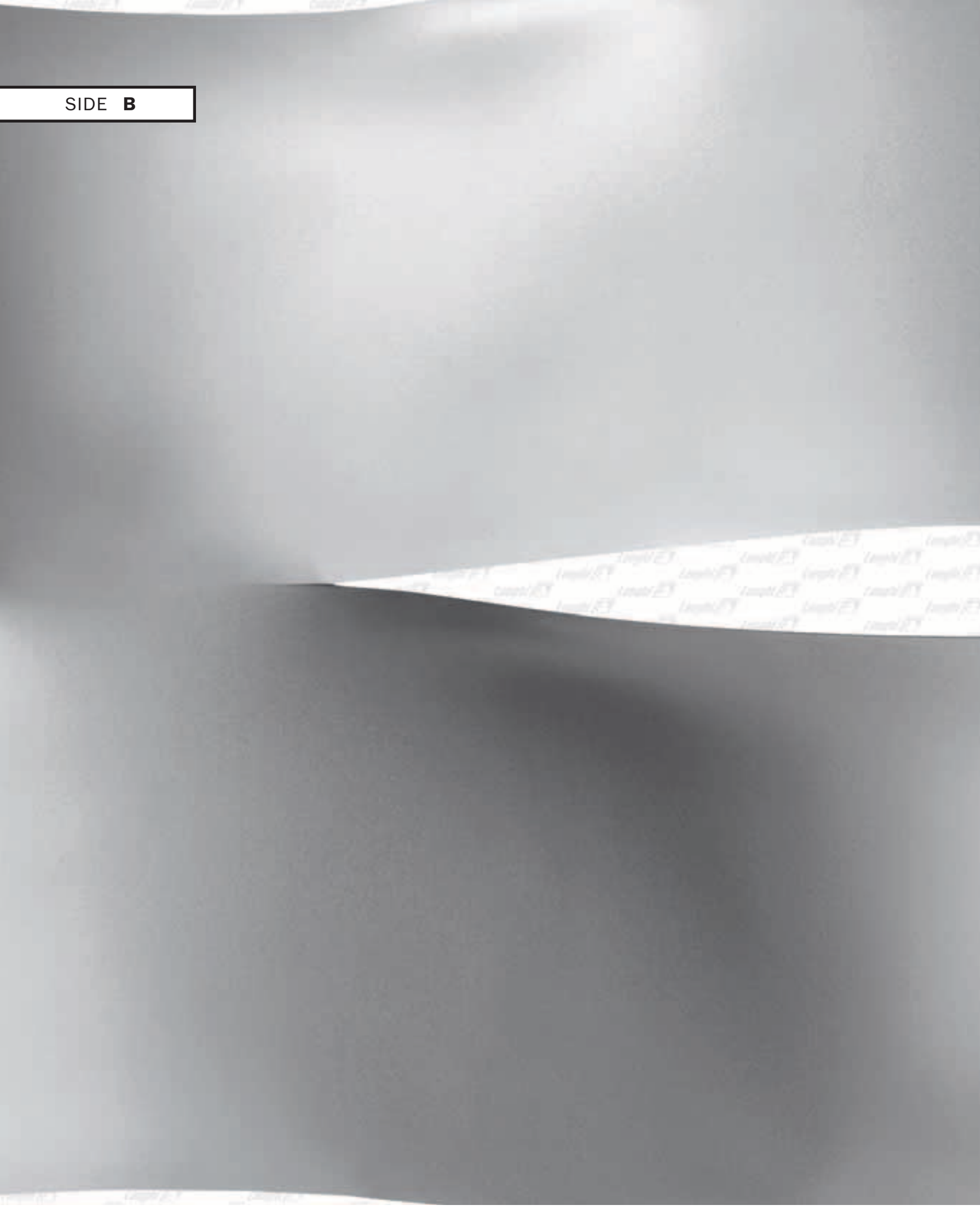
protech

1 : 5 SCALE



Type - LW x SW (SW actual) - w x t (mm)		Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
T 400 x 140 (320) - 150 x **2,0**		5,10	**LW** 1250 x **SW** 2500	measured at the centre 75 (~) ◆	6,5 (~)
T 400 x 140 (320) - 150 x **3,0**		7,60			

◆ Framing profiles: see page 192



Ellisse 400

T 400 x 140 (320) - 150 x t

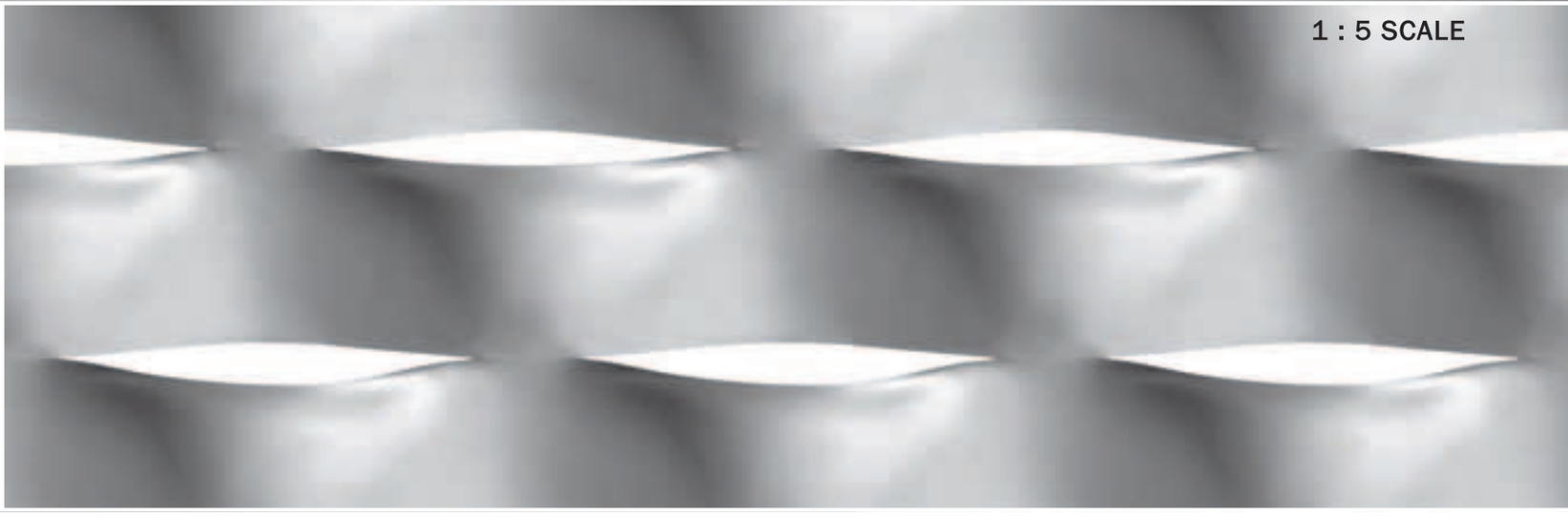
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

B A

View → 90°

1:1 scale

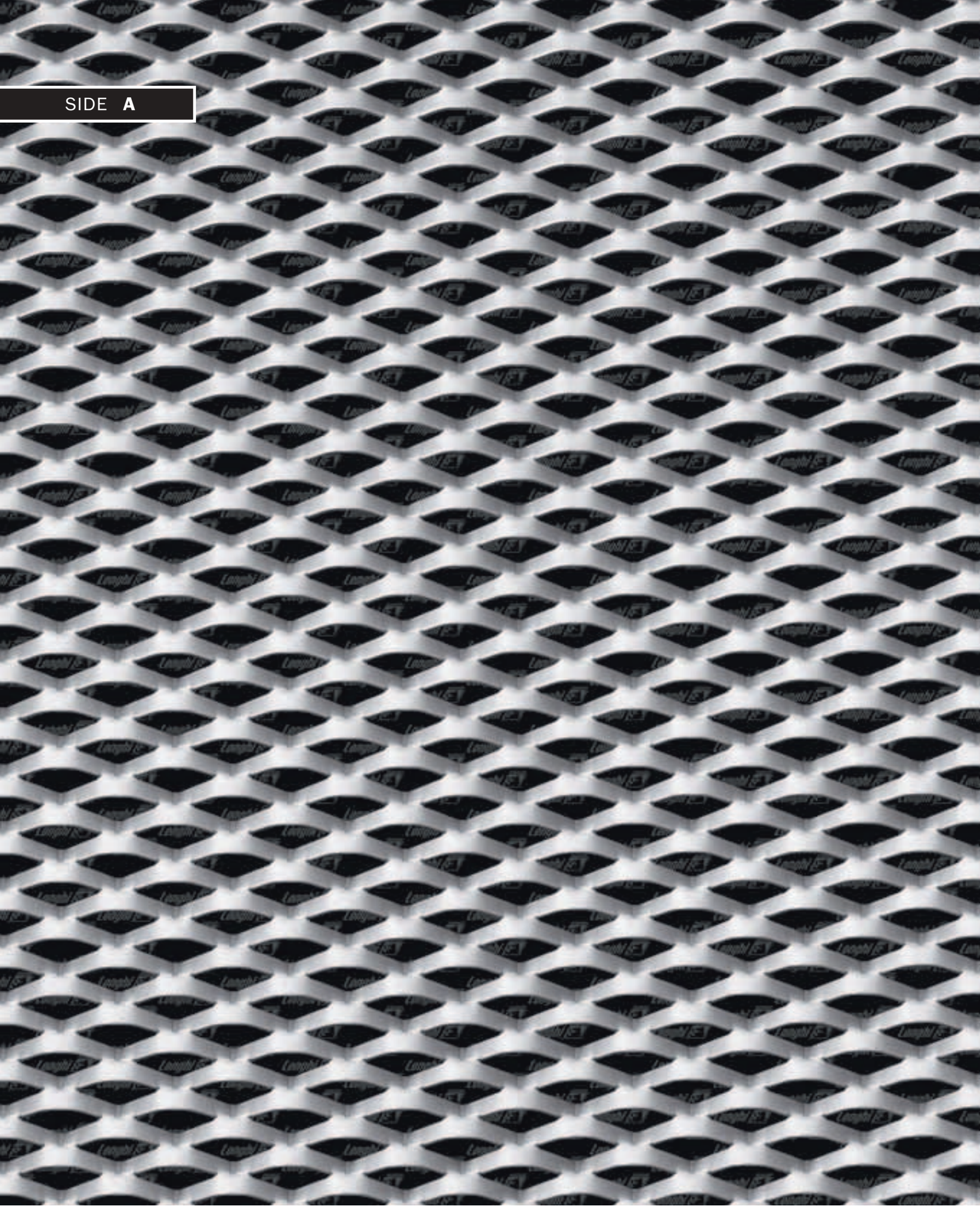
1 : 5 SCALE



Type - LW x SW (SW actual) - w x t (mm)		Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
T 400 x 140 (320) - 150 x **2,0**		5,10	**LW** 1250 x **SW** 2500	measured at the centre 75 (~) ◆	6,5 (~)
T 400 x 140 (320) - 150 x **3,0**		7,60			

◆ Framing profiles: see page 192

SIDE **A**



RB 45

R 28 x 14 - 5 x t

TYPE | LW | SW | w | t

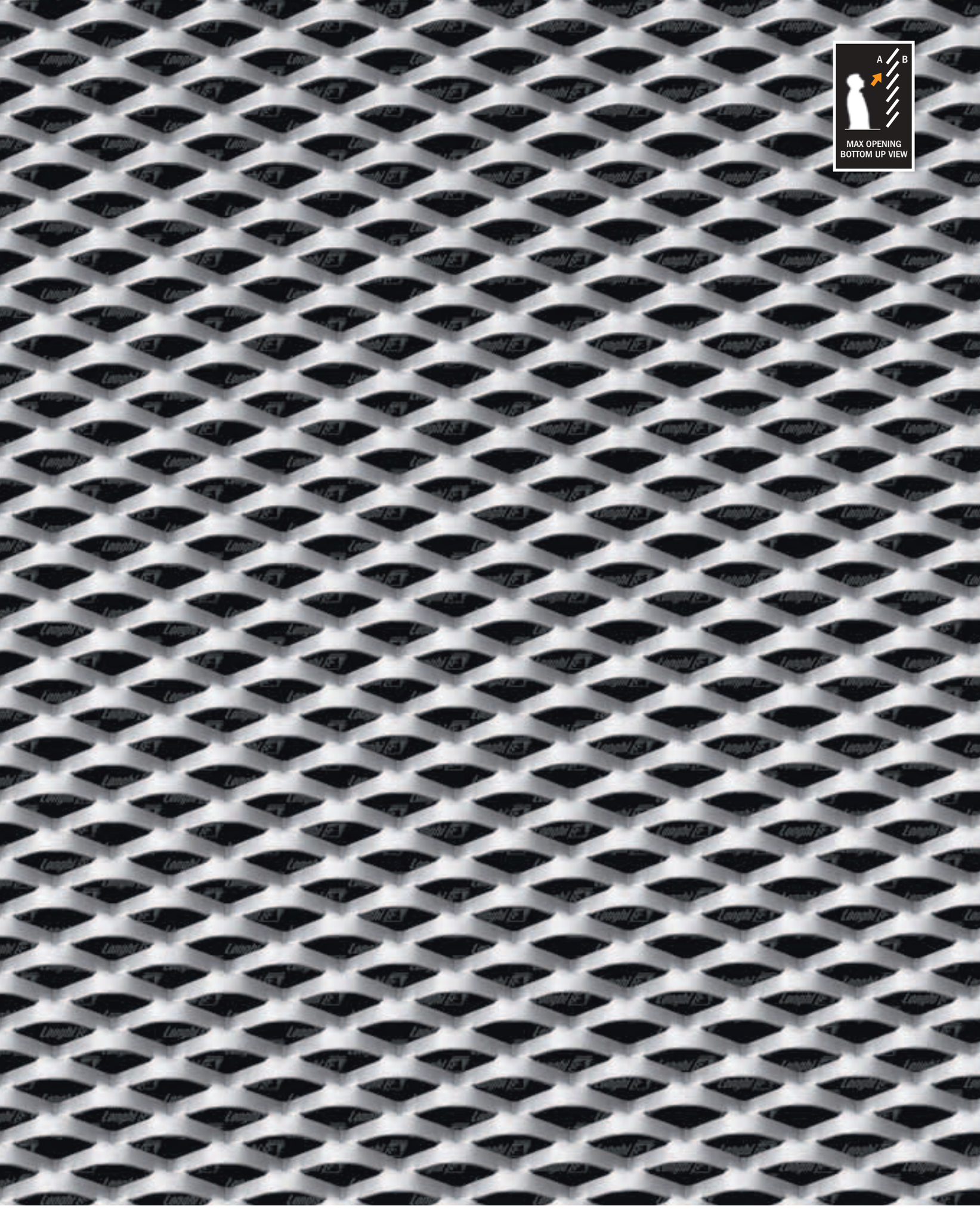
A / B

View → 90°

1:1 scale

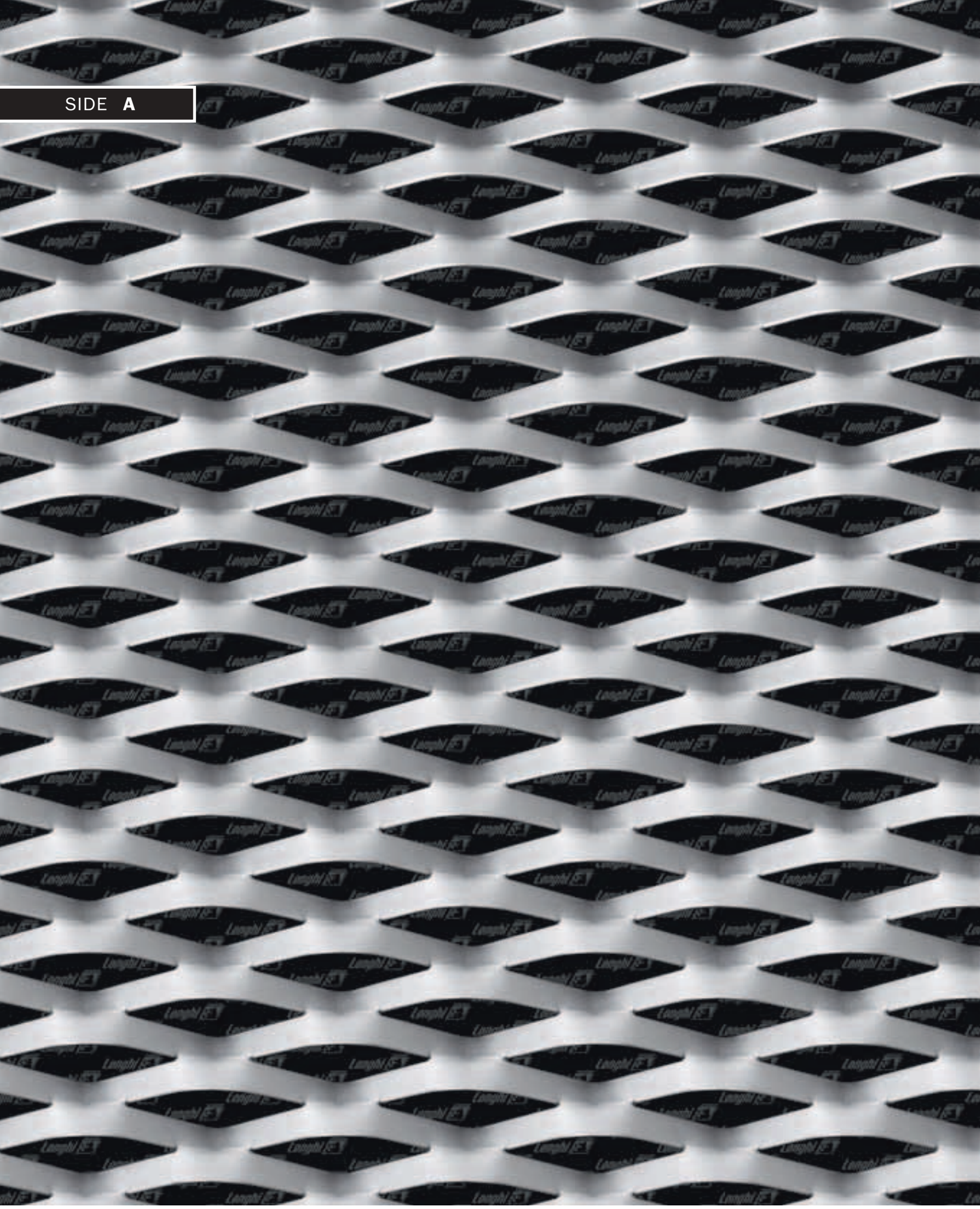
Italfim

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 28 x 14 - 5 x **1,5**	8,40	3,00	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 7 (~) ◆	33 (~)
R 28 x 14 - 5 x **2,0**	11,30	3,90			

◆ Framing profiles: see page 193



RB 65

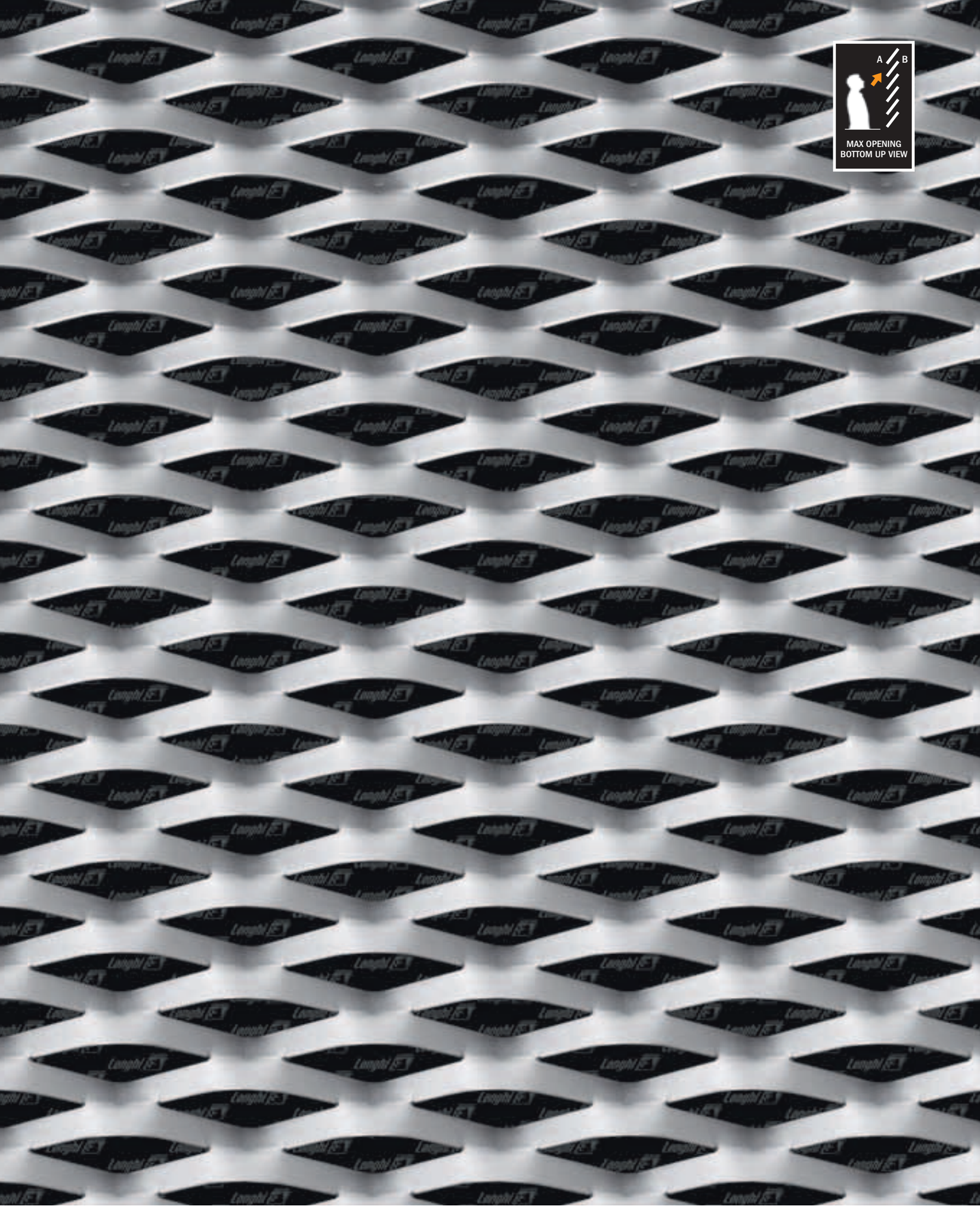
R 62 x 23 - 8 x t

TYPE | LW | SW | w | t

A B

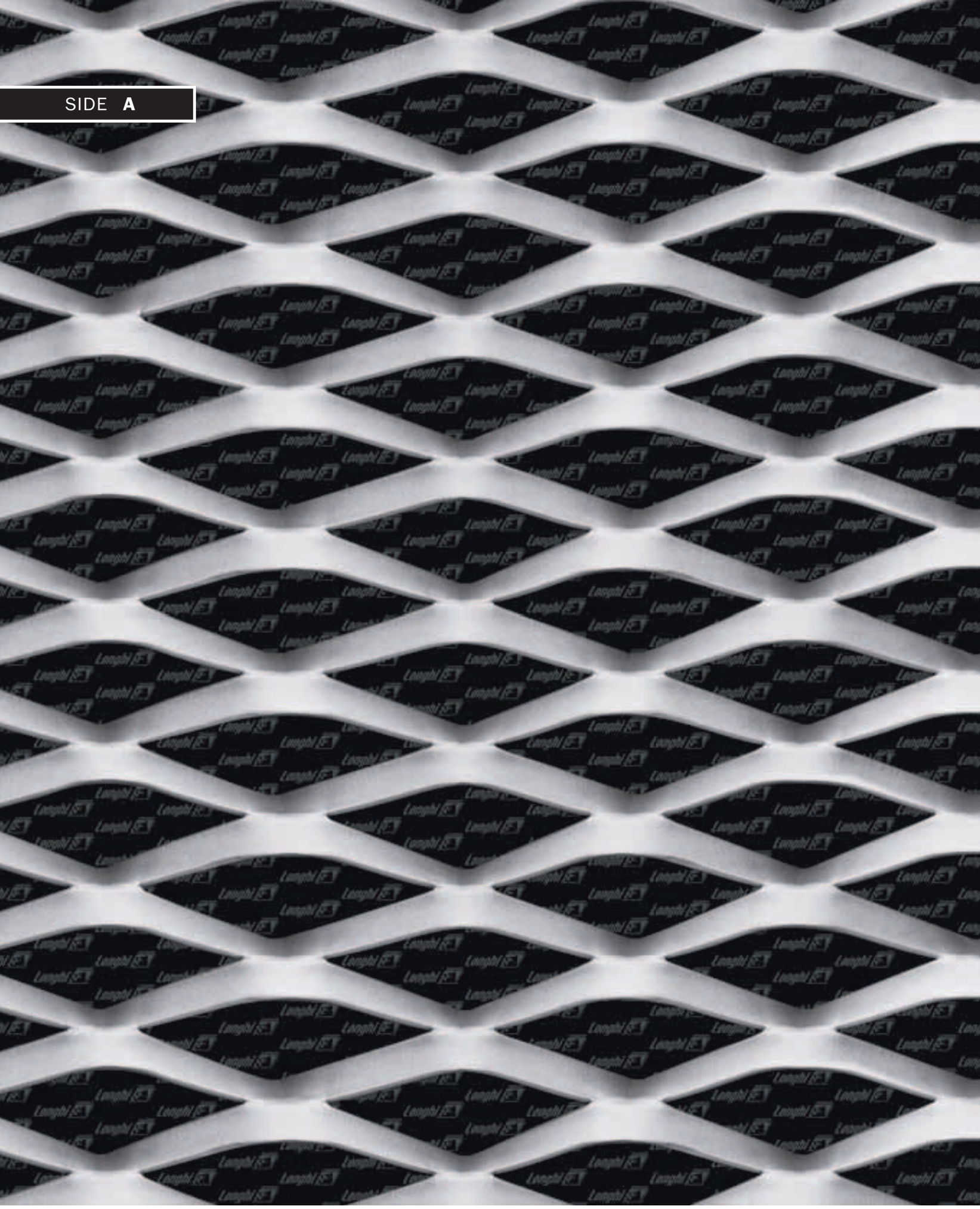
View → 90°

1:1 scale



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 62 x 23 - 8 x **0,6**	3,35	1,15	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 10 (~) ◆	36 (~)
R 62 x 23 - 8 x **1,0**	5,60	1,90			
R 62 x 23 - 8 x **1,5**	8,20	2,80			

◆ Framing profiles: see page 193



RB 75

R 85 x 35 - 11 x t

TYPE | LW | SW | w | t

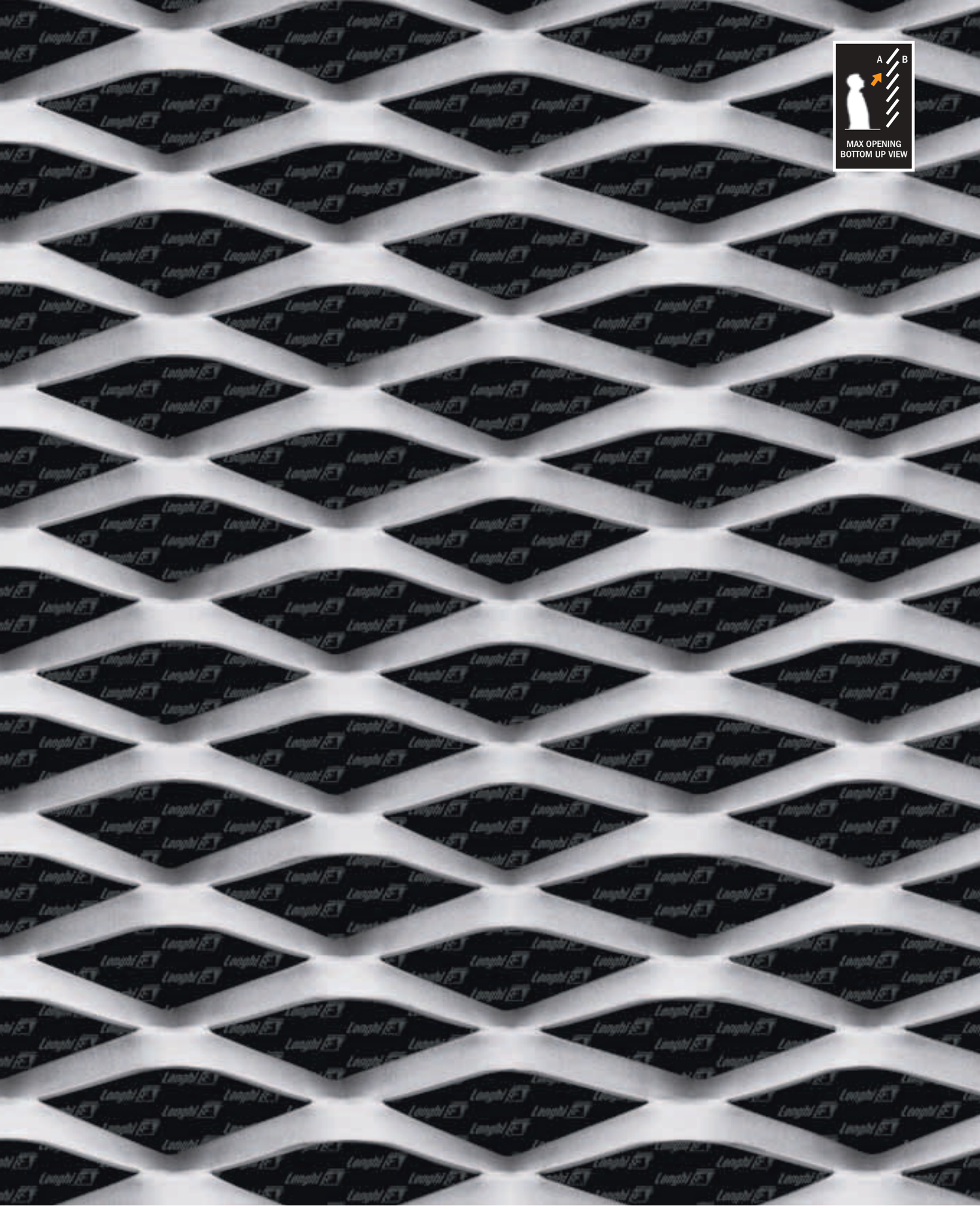
A B

View → 90°

1:1 scale

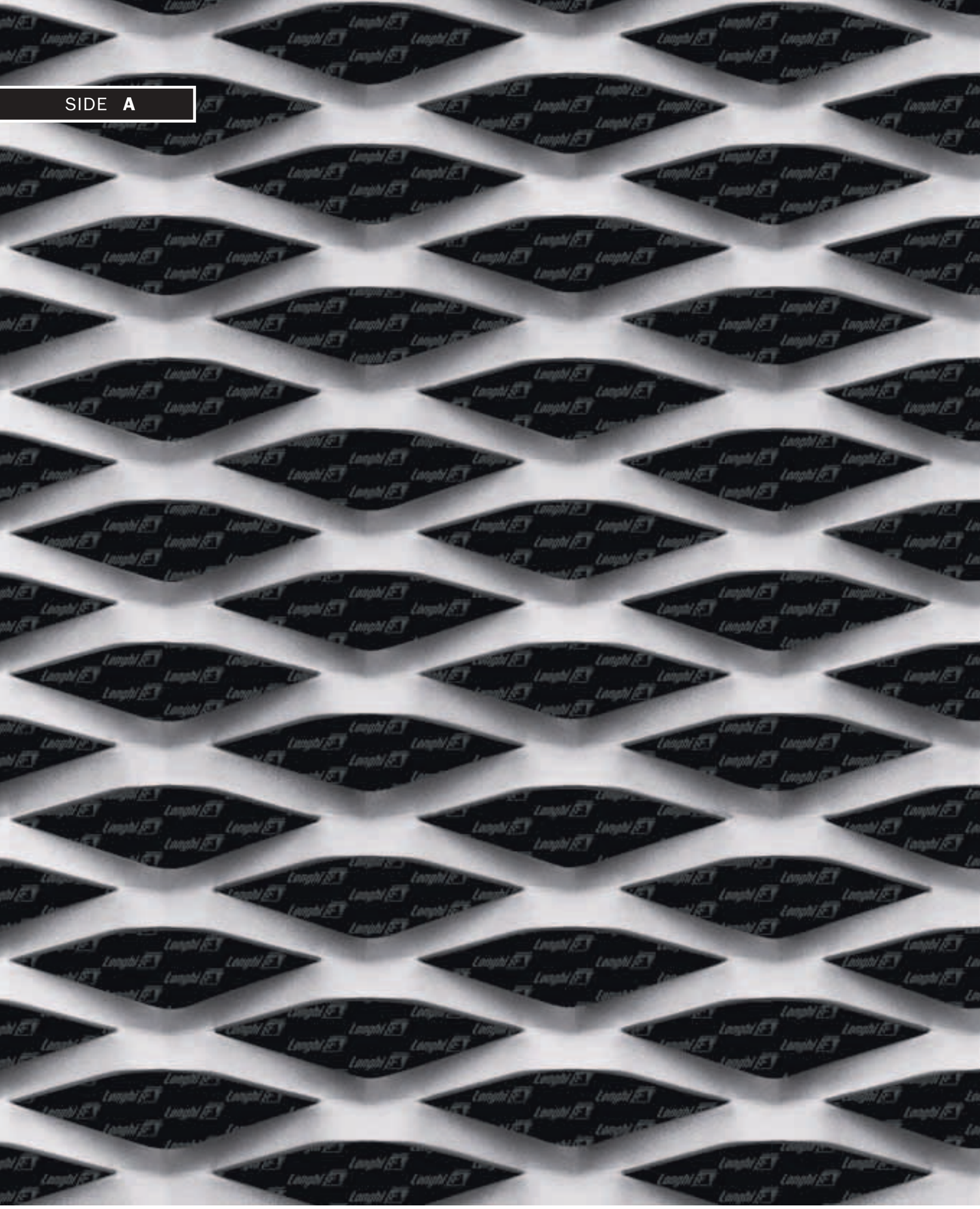
Italfim

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 85 x 35 - 11 x **1,5**	7,40	2,55	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 14 (~) ◆	48 (~)
R 85 x 35 - 11 x **2,0**	9,87	3,40			

◆ Framing profiles: see page 193



RB 85

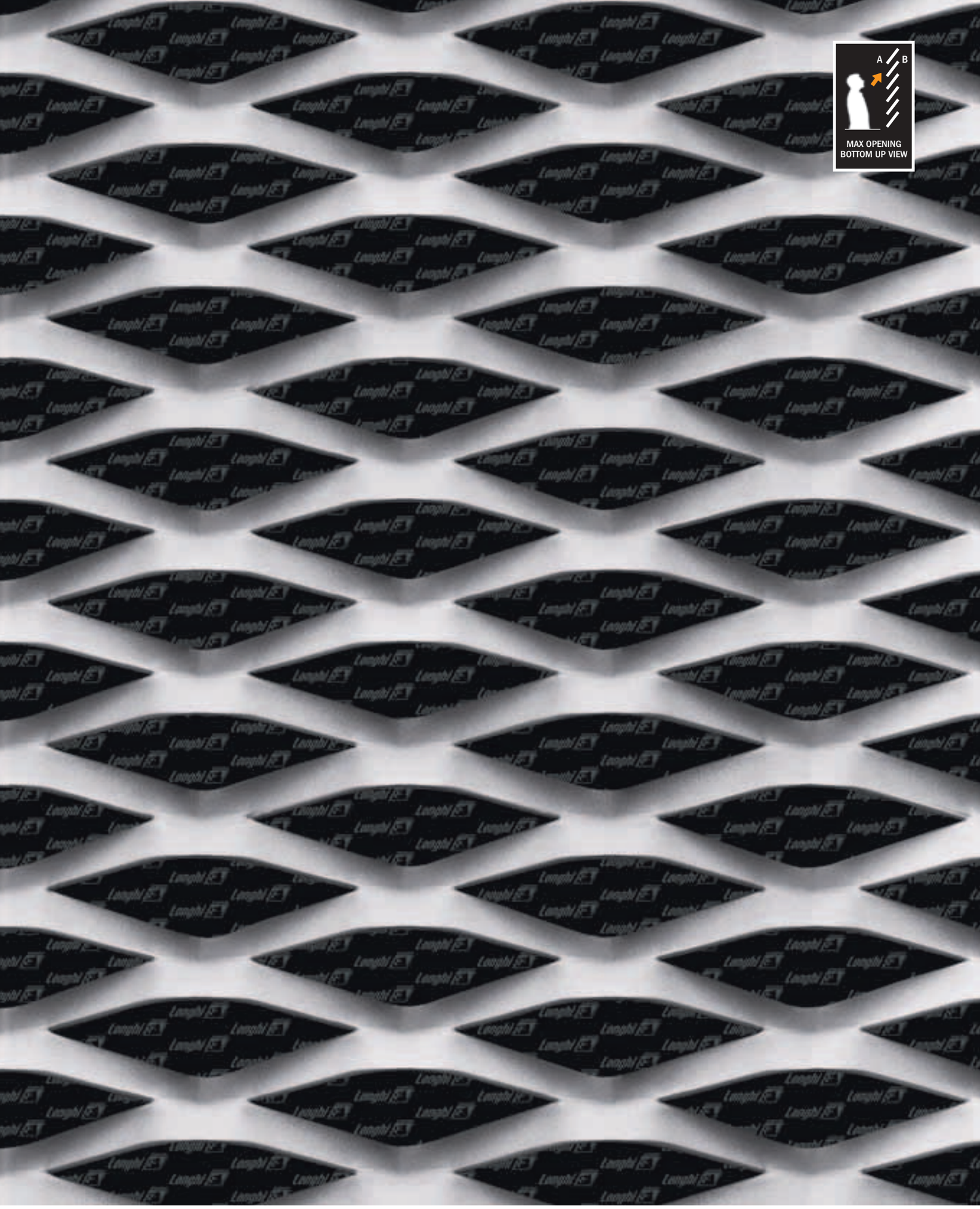
R 100 x 35 - 11 x t

TYPE | LW | SW | w | t

A / B

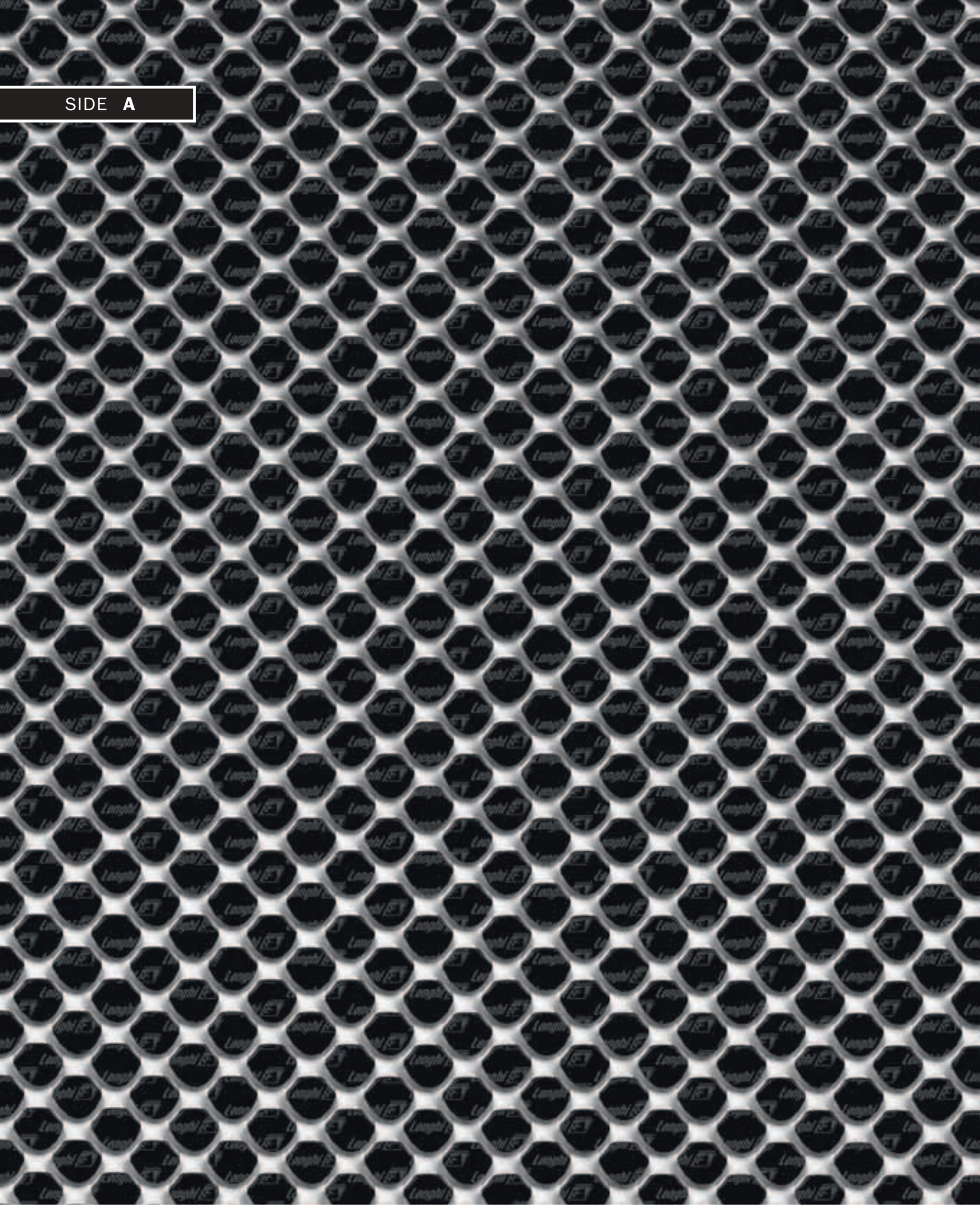
View → 90°

1:1 scale



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 15 (~) ◆	45 (~)
R 100 x 35 - 11 x **2,0**	10,10	3,50			

◆ Framing profiles: see page 193



TAU 40

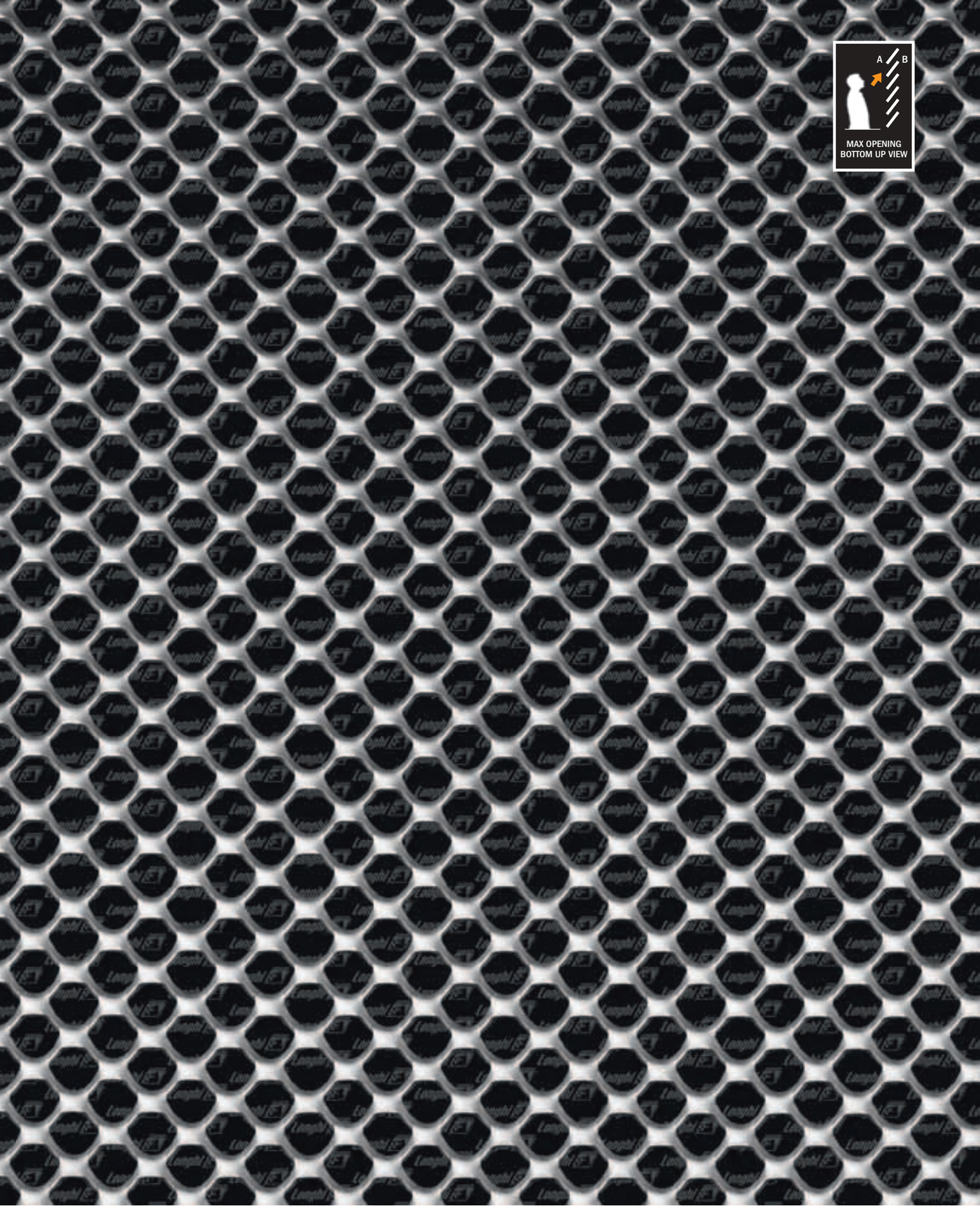
T 20 - 3,25 x t - Ø10

TYPE | LW | w | t | inscribed diameter hole

A B

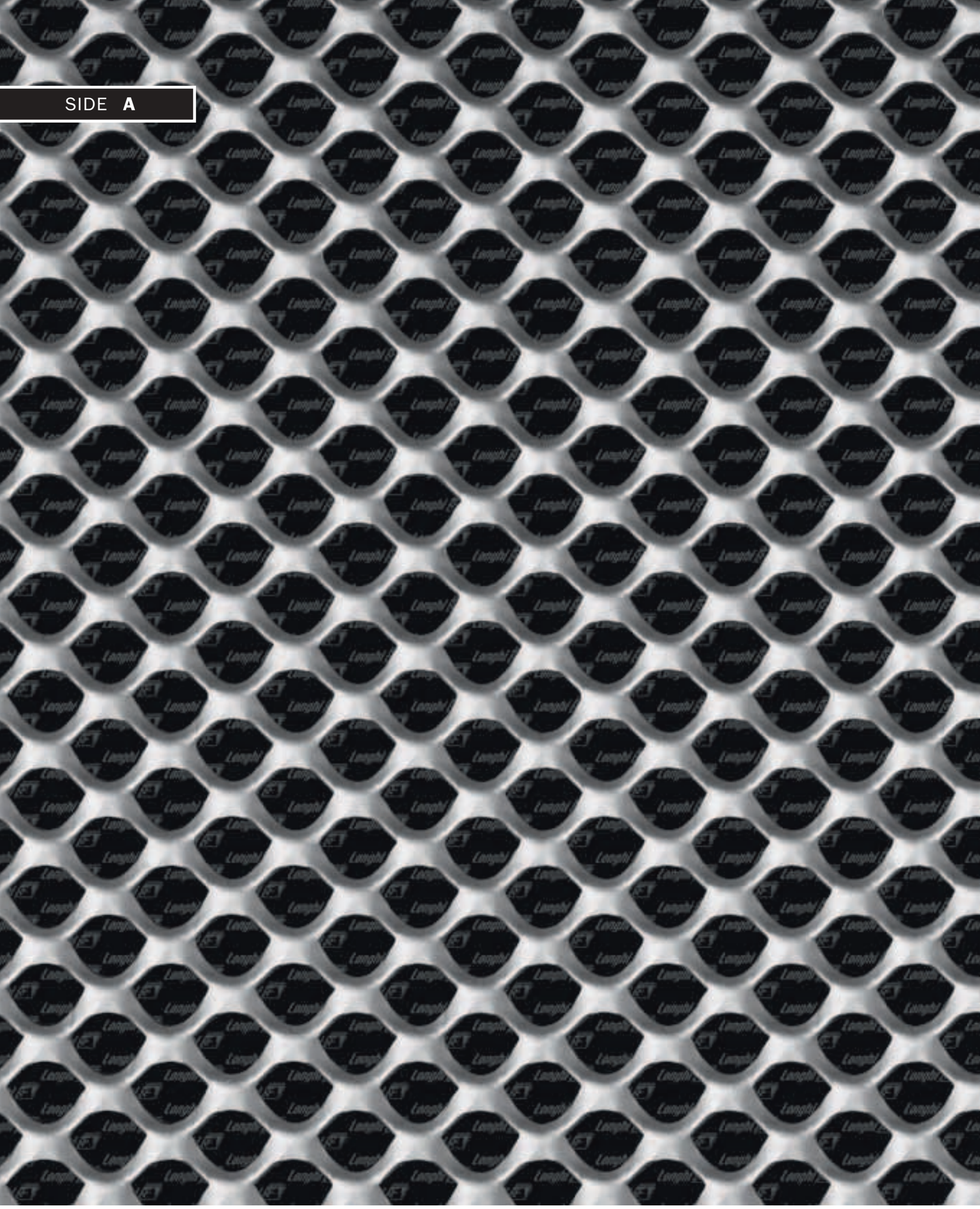
View → 90°

1:1 scale



Type - LW - w x t - Ø (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
T 20 - 3,25 x **1,5** - Ø10	5,40	1,95	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 5 (~) ◆	57 (~)
T 20 - 3,25 x **2,0** - Ø10	7,10	2,50			

◆ Framing profiles: see page 193



TAU 60

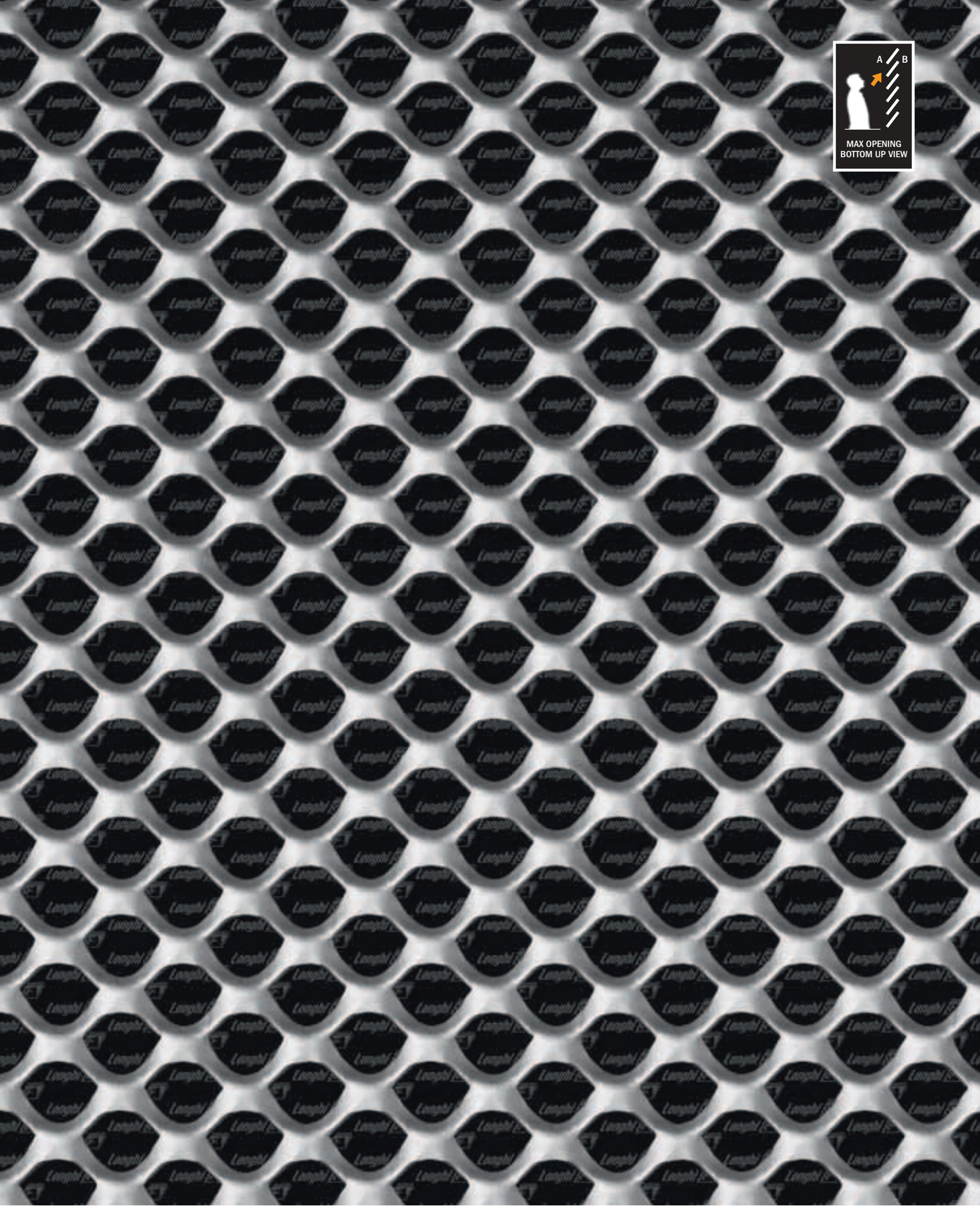
T 30 - 6 x t - Ø15

TYPE | LW | w | t | inscribed diameter hole

A B

View → 90°

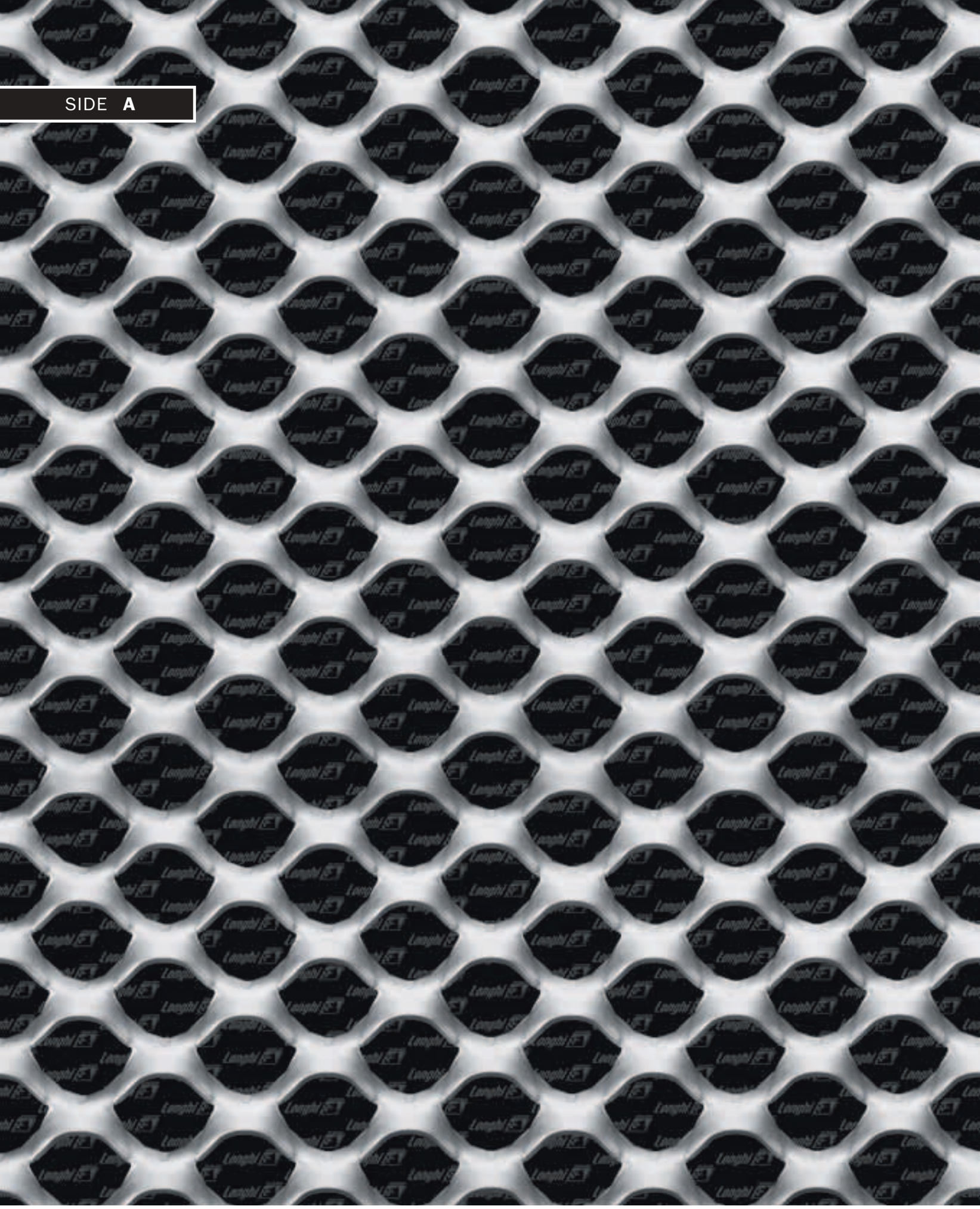
1:1 scale



Type - LW - w x t - Ø (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
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 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	measured at the centre 6 (~) ◆	51 (~)
T 30 - 6 x **3,0** - Ø15	11,50	3,65			

MS = Mild Steel - AL = Aluminium

◆ Framing profiles: see page 193



TAU 70

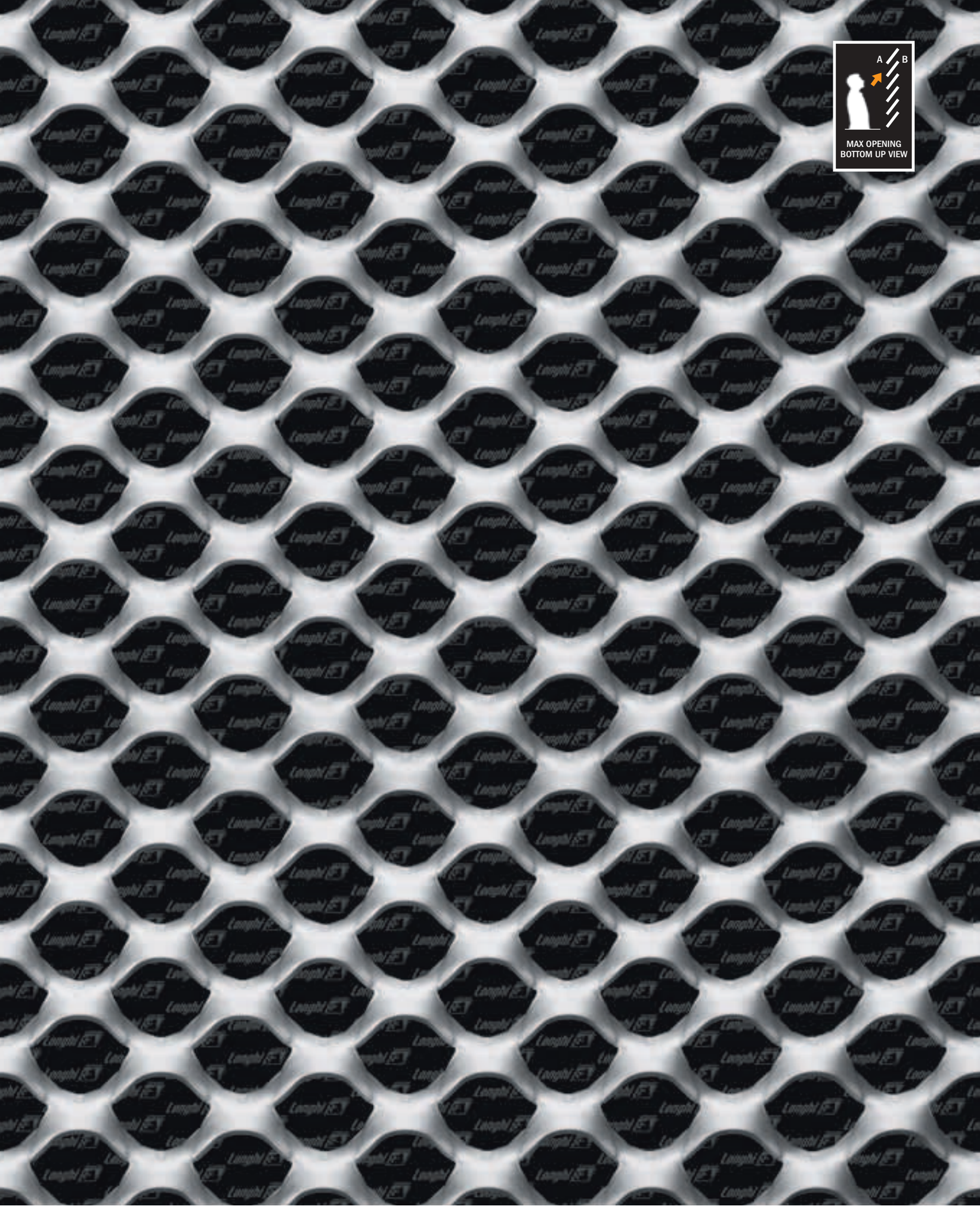
T 40 - 6,5 x t - Ø20

TYPE | LW | w | t | inscribed diameter hole

A B

View → 90°

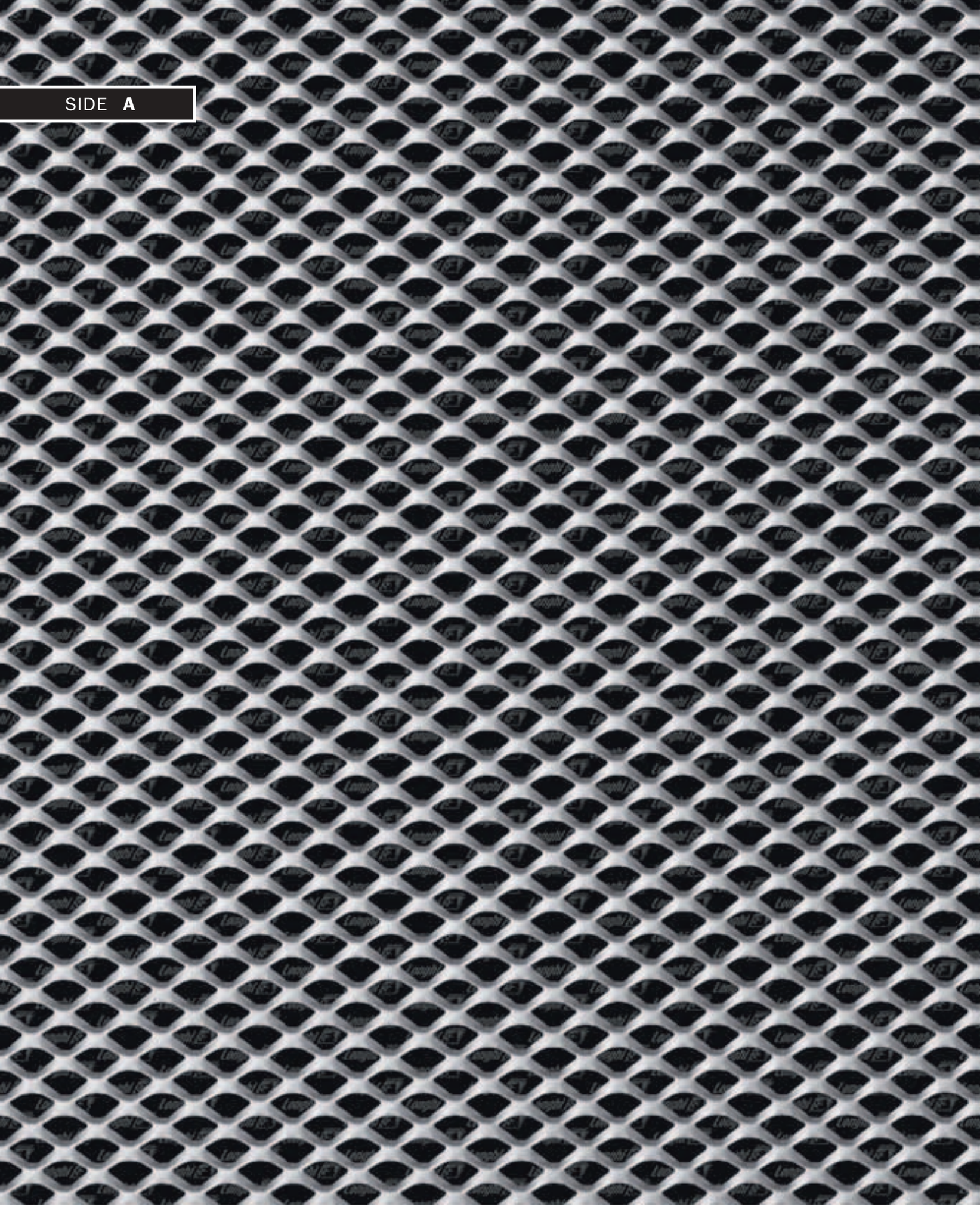
1:1 scale



Type - LW - w x t - Ø (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% 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	measured at the centre 10 (~) ◆	52 (~)
T 40 - 6,5 x **2,0** - Ø20	8,30	2,55	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		
T 40 - 6,5 x **3,0** - Ø20	/	3,80			

MS = Mild Steel - AL = Aluminium

◆ Framing profiles: see page 193



KD 400

Q 16 x 11 - 3 x t

TYPE | LW | SW | w | t

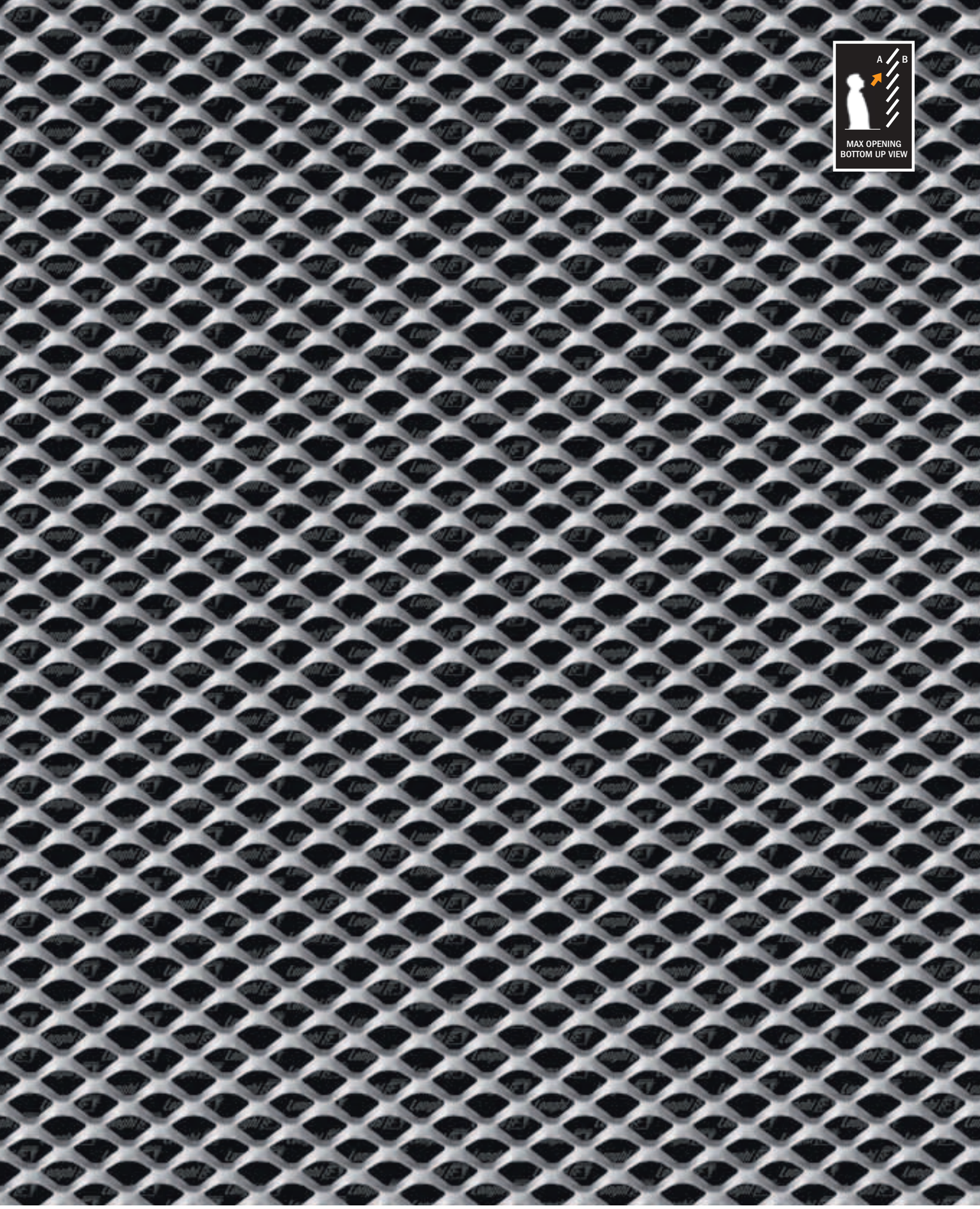
A B

View → 90°

1:1 scale

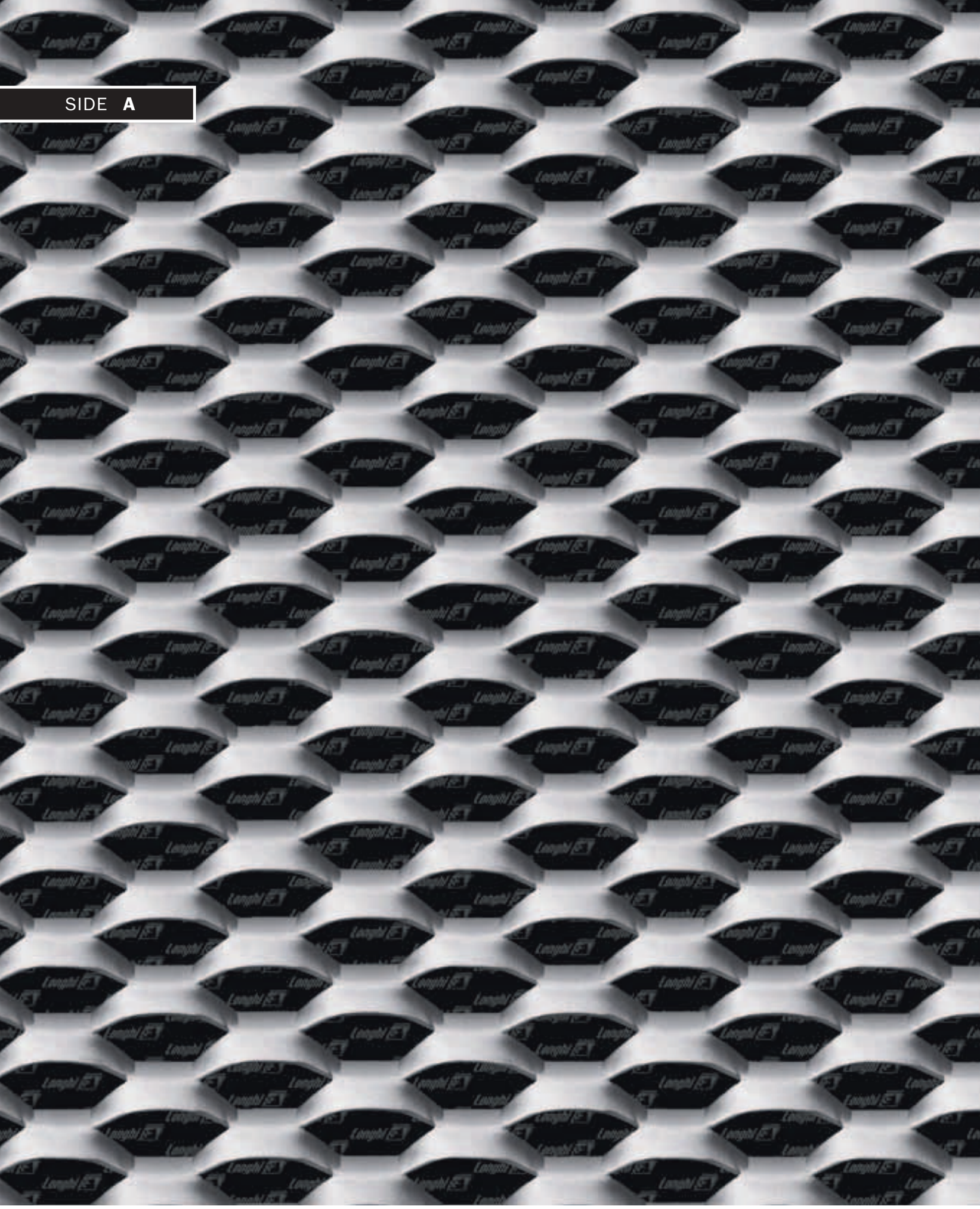
Italfim

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
Q 16 x 11 - 3 x **1,5**	6,40	2,25	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 4 (~) ◆	46 (~)
Q 16 x 11 - 3 x **2,0**	8,60	3,00			

◆ Framing profiles: see page 193



Exa 05

E 50 x 23 - 8 x t

TYPE | LW | SW | w | t

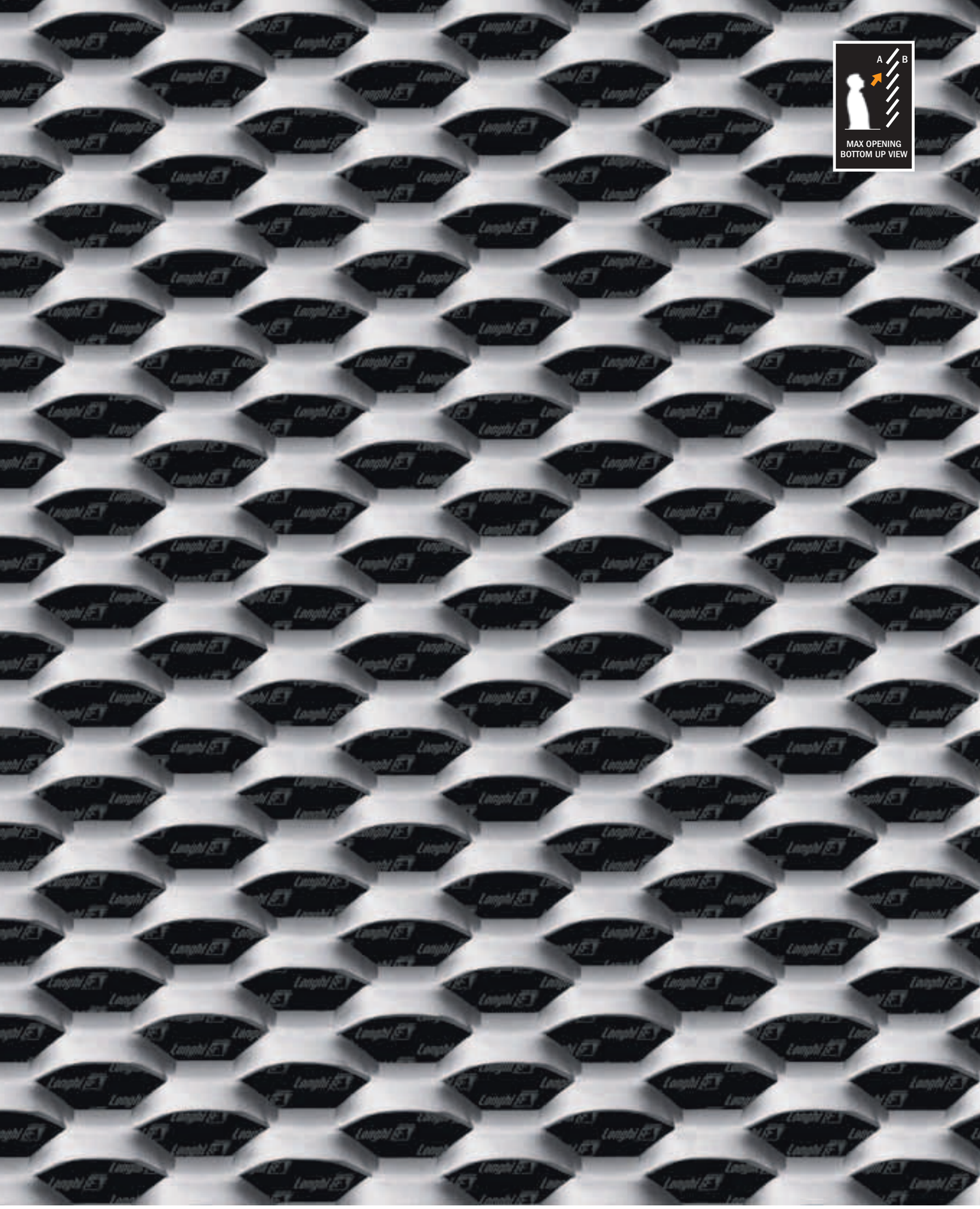
A B

View → 90°

1:1 scale

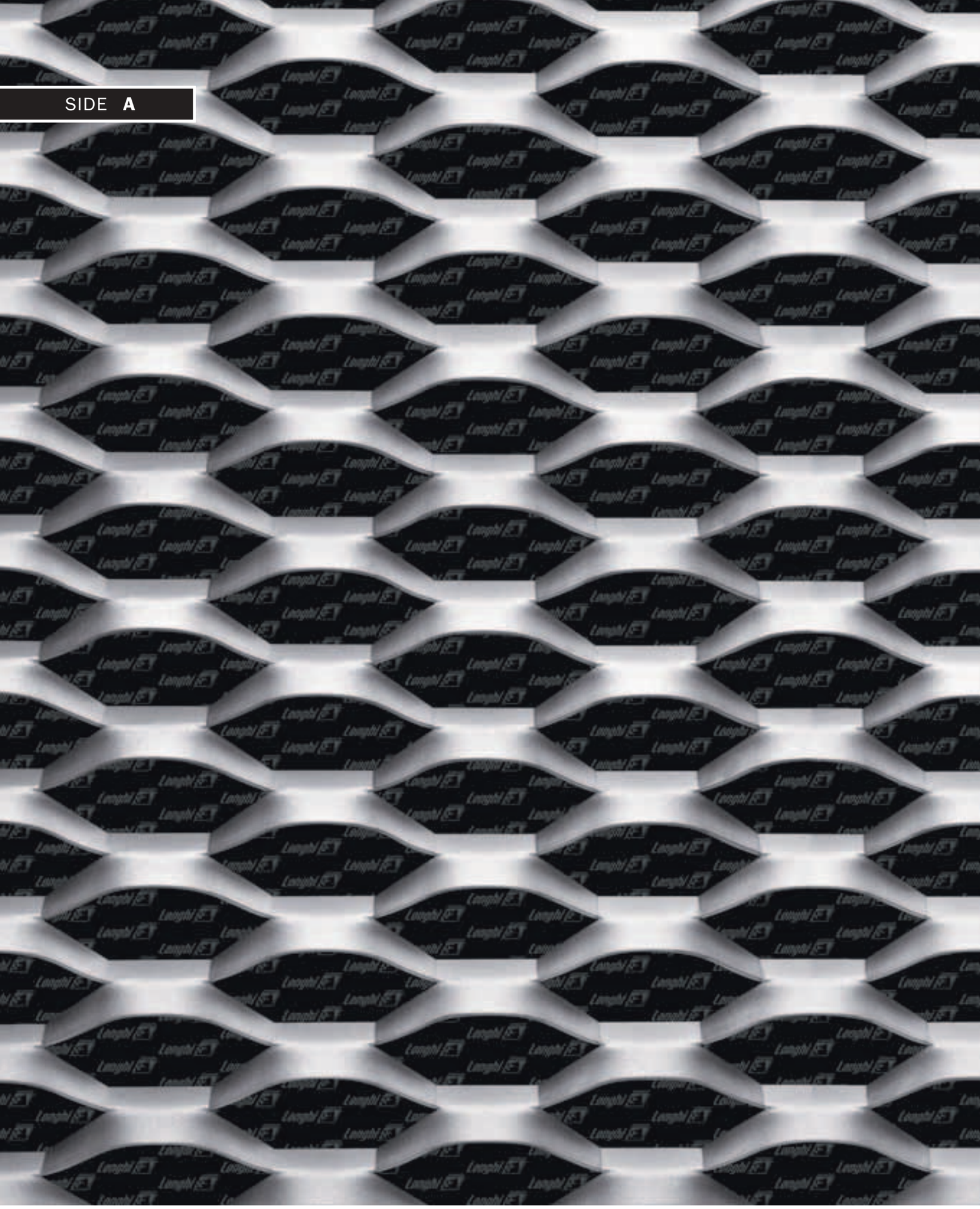
Italfim

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 50 x 23 - 8 x **1,5**	8,20	2,85	**LW** 1000 x **SW** 2000 on request **LW** 1250 x **SW** 2500 on request **LW** 1500 x **SW** 3000 on request	measured at the centre 10 (~) ◆	43 (~)
E 50 x 23 - 8 x **2,0**	10,95	3,75			

◆ Framing profiles: see page 193



Exa 12

E 80 x 30 - 9 x t

TYPE | LW | SW | w | t

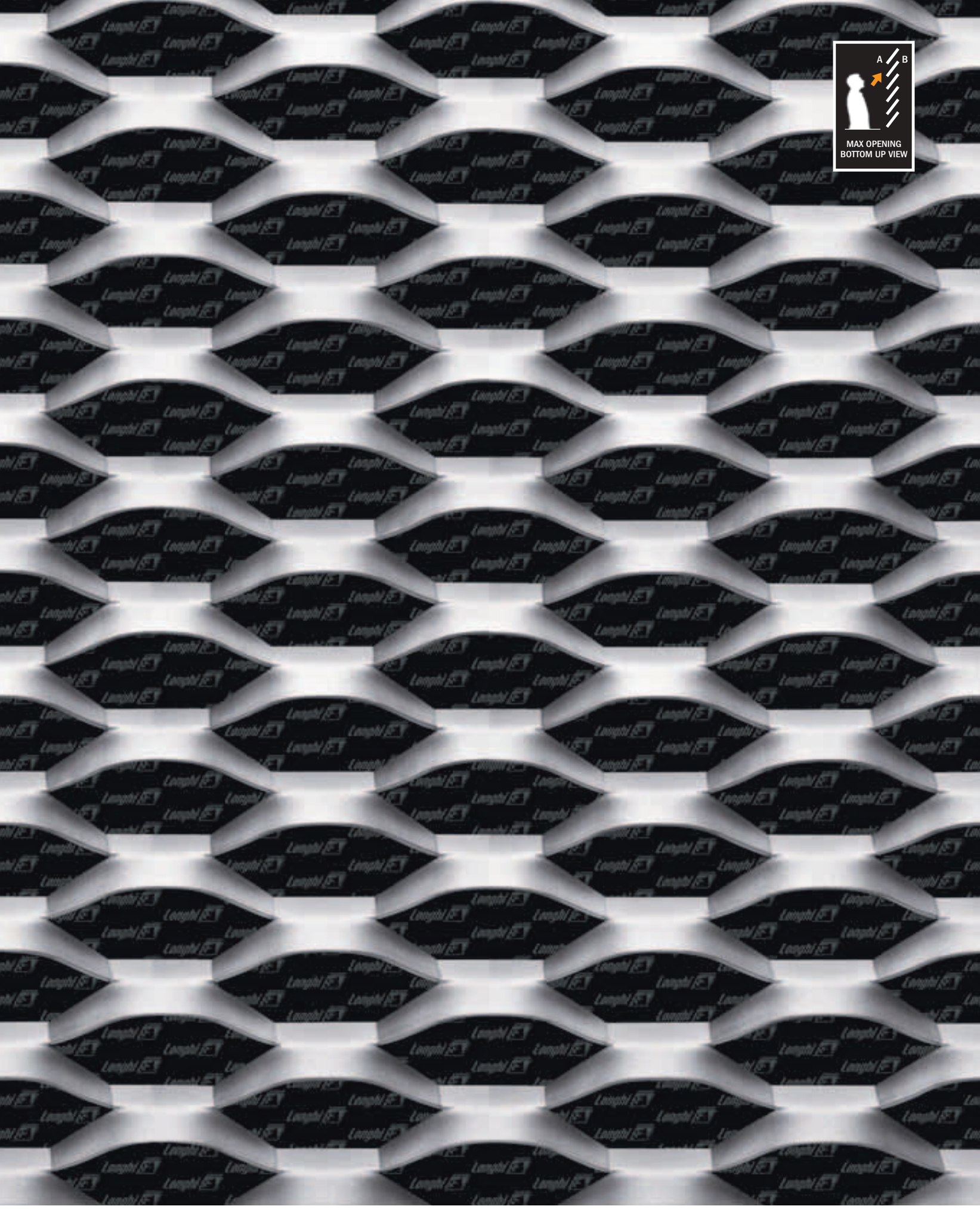
A B

View → 90°

1:1 scale

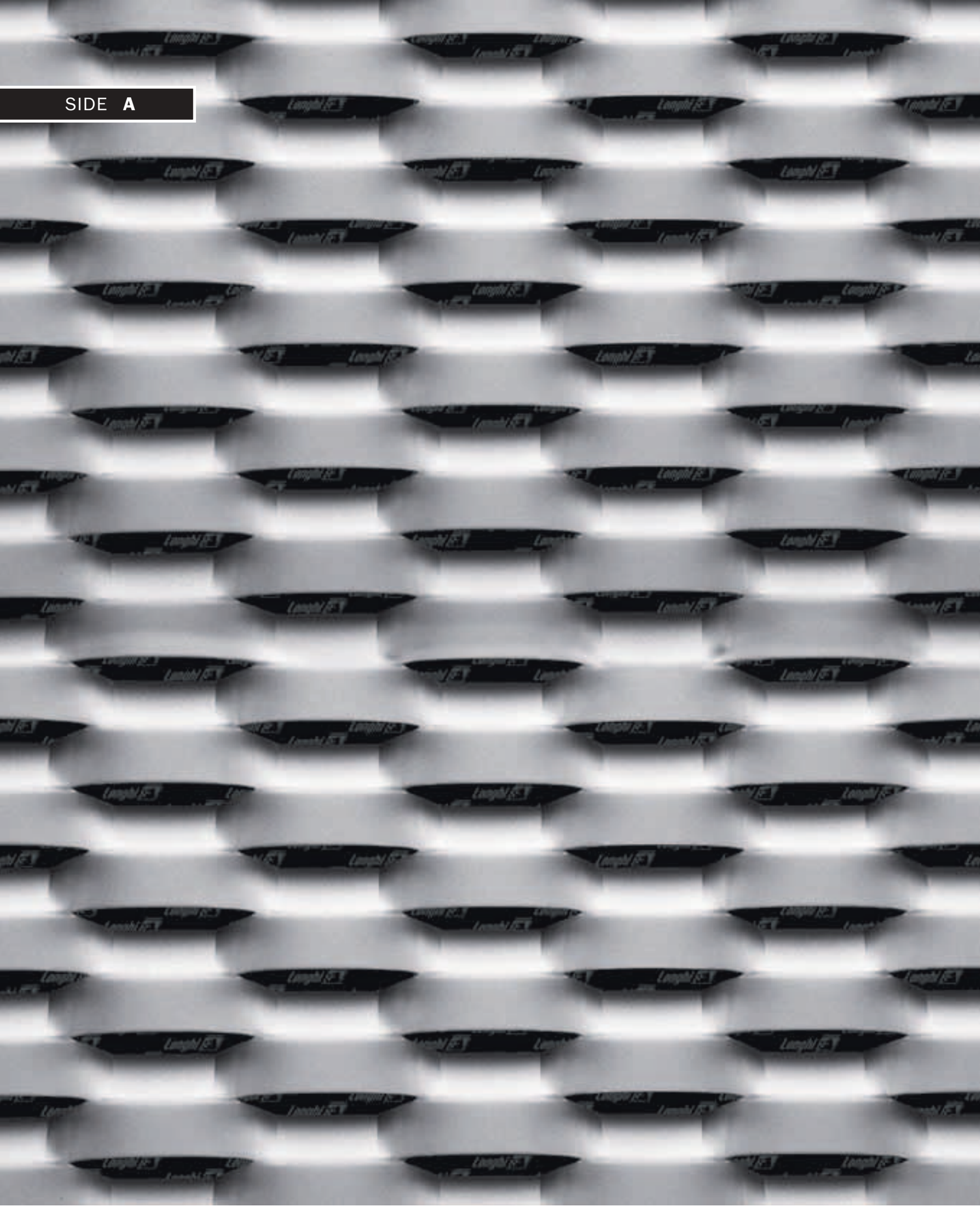
Italfim

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 80 x 30 - 9 x **1,5**	7,10	2,50	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 12 (~) ◆	54 (~)
E 80 x 30 - 9 x **2,0**	9,50	3,30			

◆ Framing profiles: see page 193



Exa 16

E 80 x 30 - 13 x t

TYPE | LW | SW | w | t

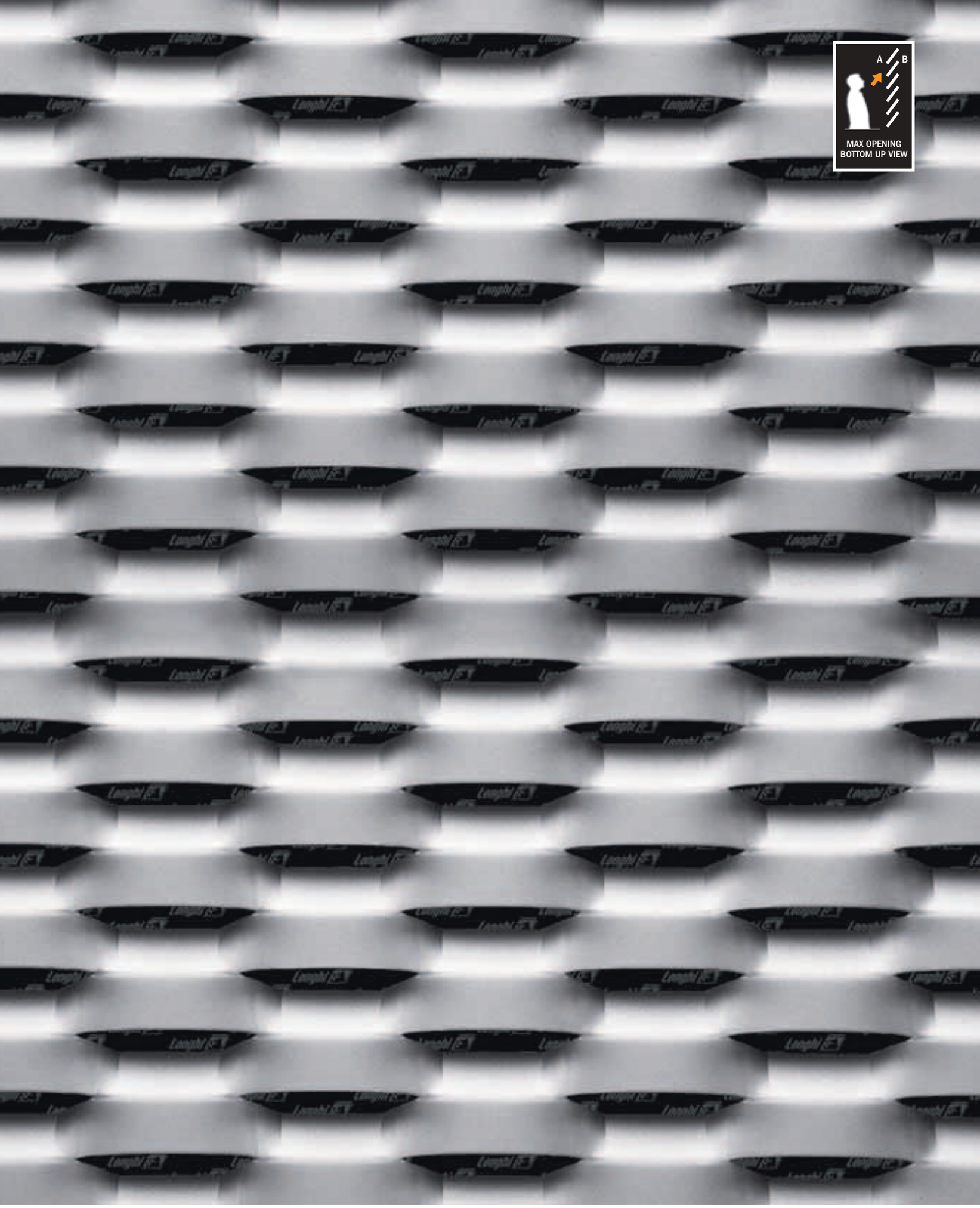
A B

View → 90°

1:1 scale

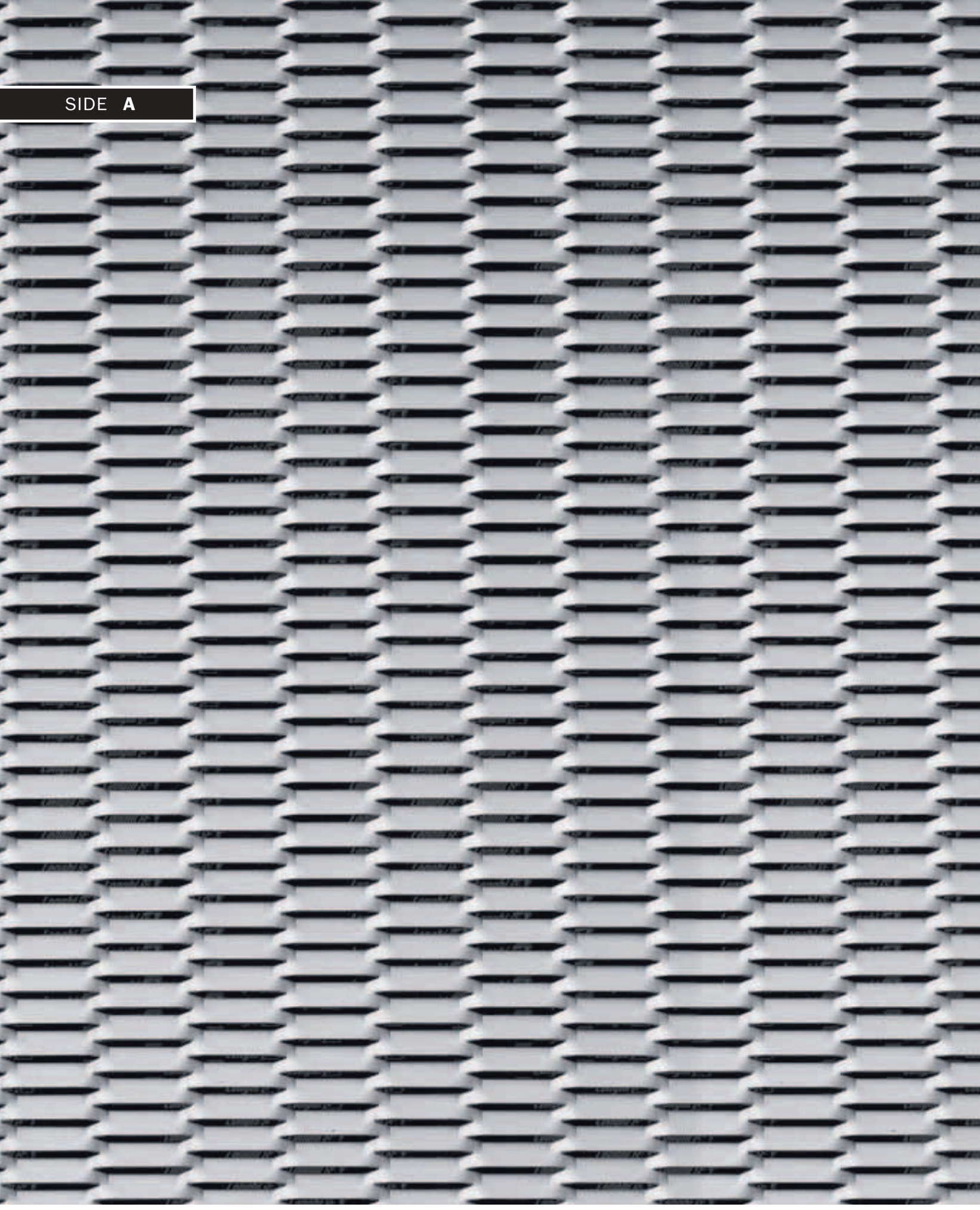
Italfim

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 80 x 30 - 13 x **1,5**	10,20	3,60	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 11 (~) ◆	15 (~)
E 80 x 30 - 13 x **2,0**	13,70	4,70			

◆ Framing profiles: see page 193



Deco 91

E 45 x 8 - 3,5 x t

TYPE | LW | SW | w | t

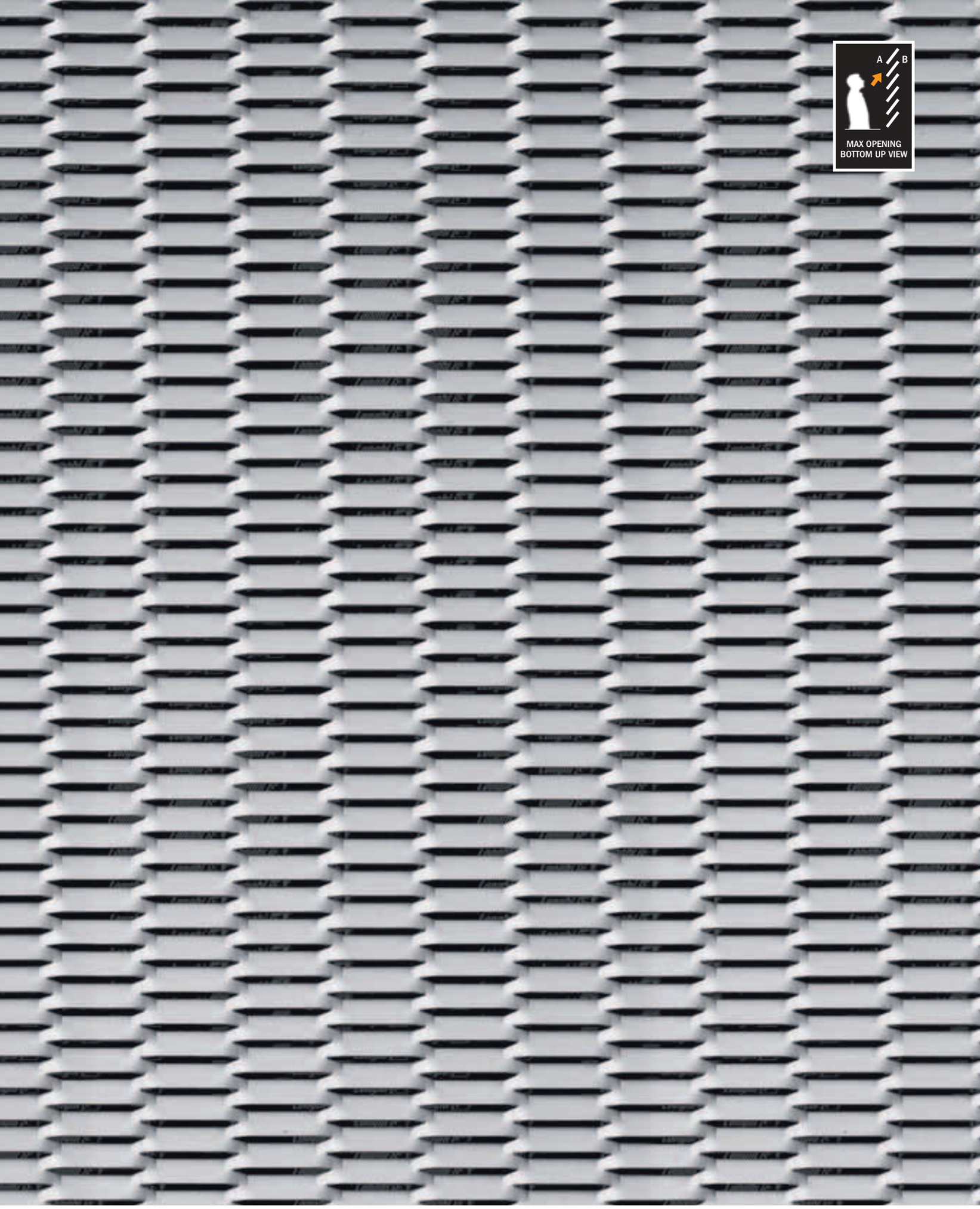
A B

View → 90°

1:1 scale

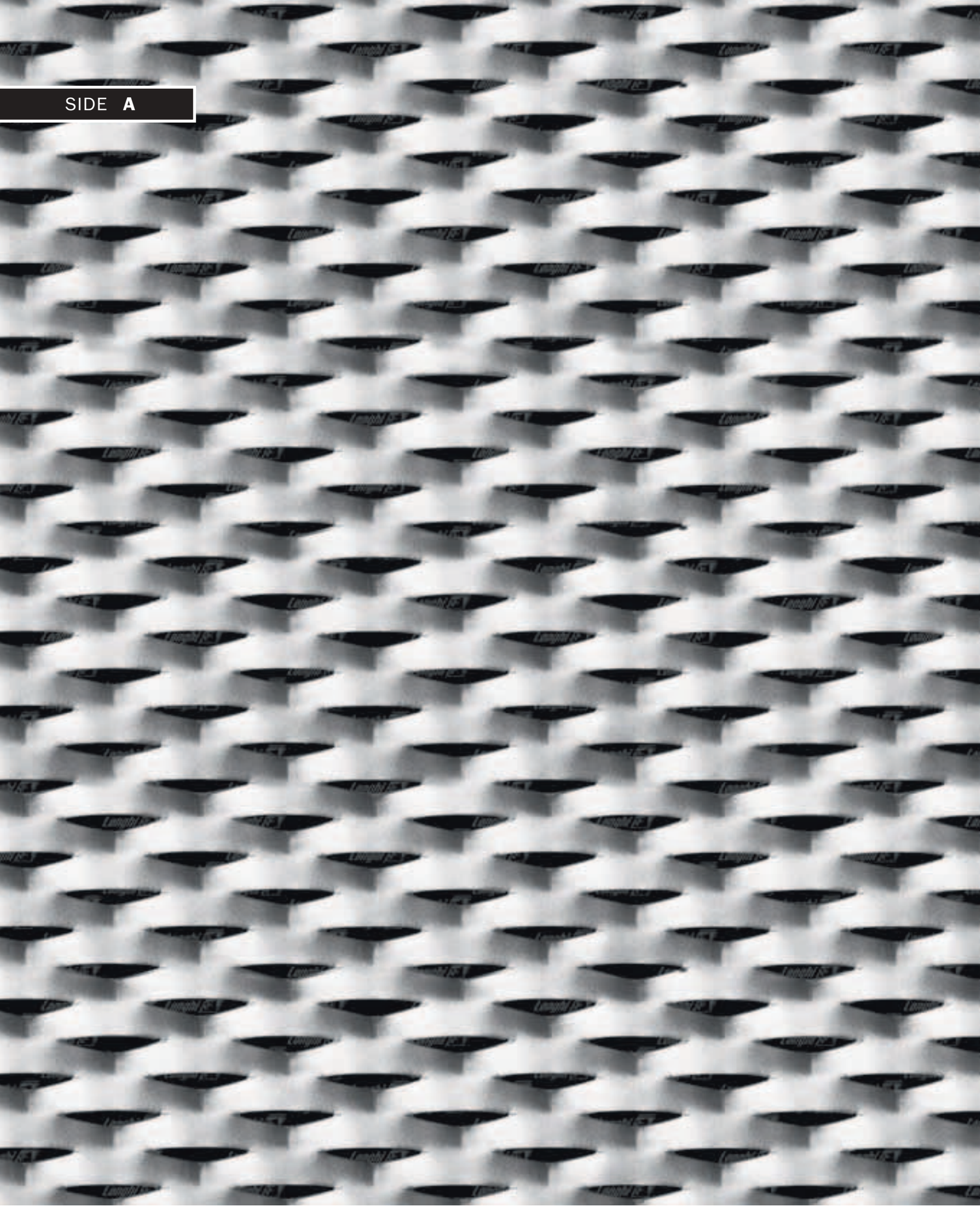
Italfim

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
E 45 x 8 - 3,5 x **1,0**	6,80	2,40	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 4 (~) ◆	23 (~)
E 45 x 8 - 3,5 x **1,5**	10,00	3,30			

◆ Framing profiles: see page



Terrace

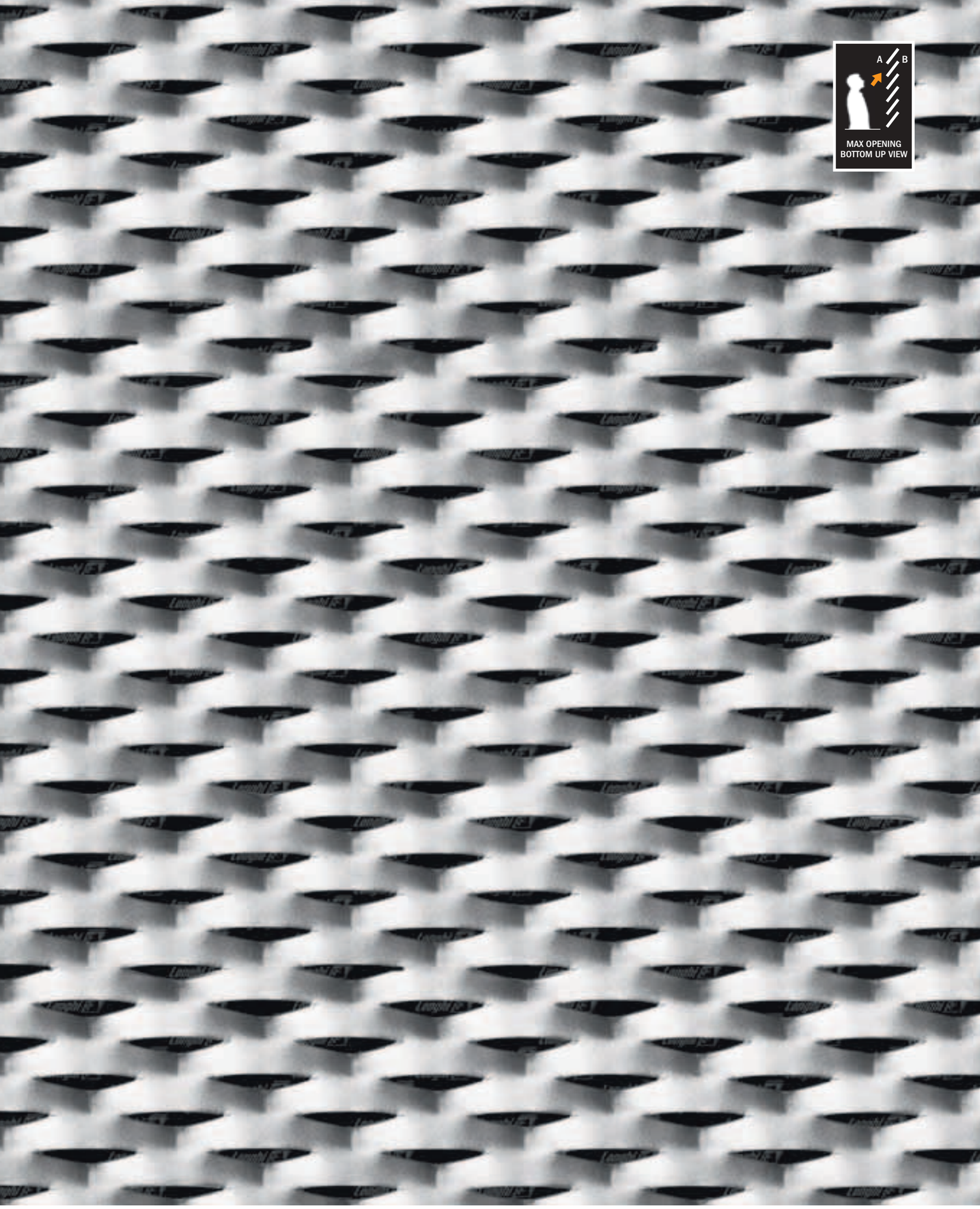
R 43 x 18 - 8 x t

TYPE | LW | SW | w | t

A B

View → 90°

1:1 scale



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)
R 43 x 18 - 8 x **1,5**	10,50	3,60
R 43 x 18 - 8 x **2,0**	14,00	4,60

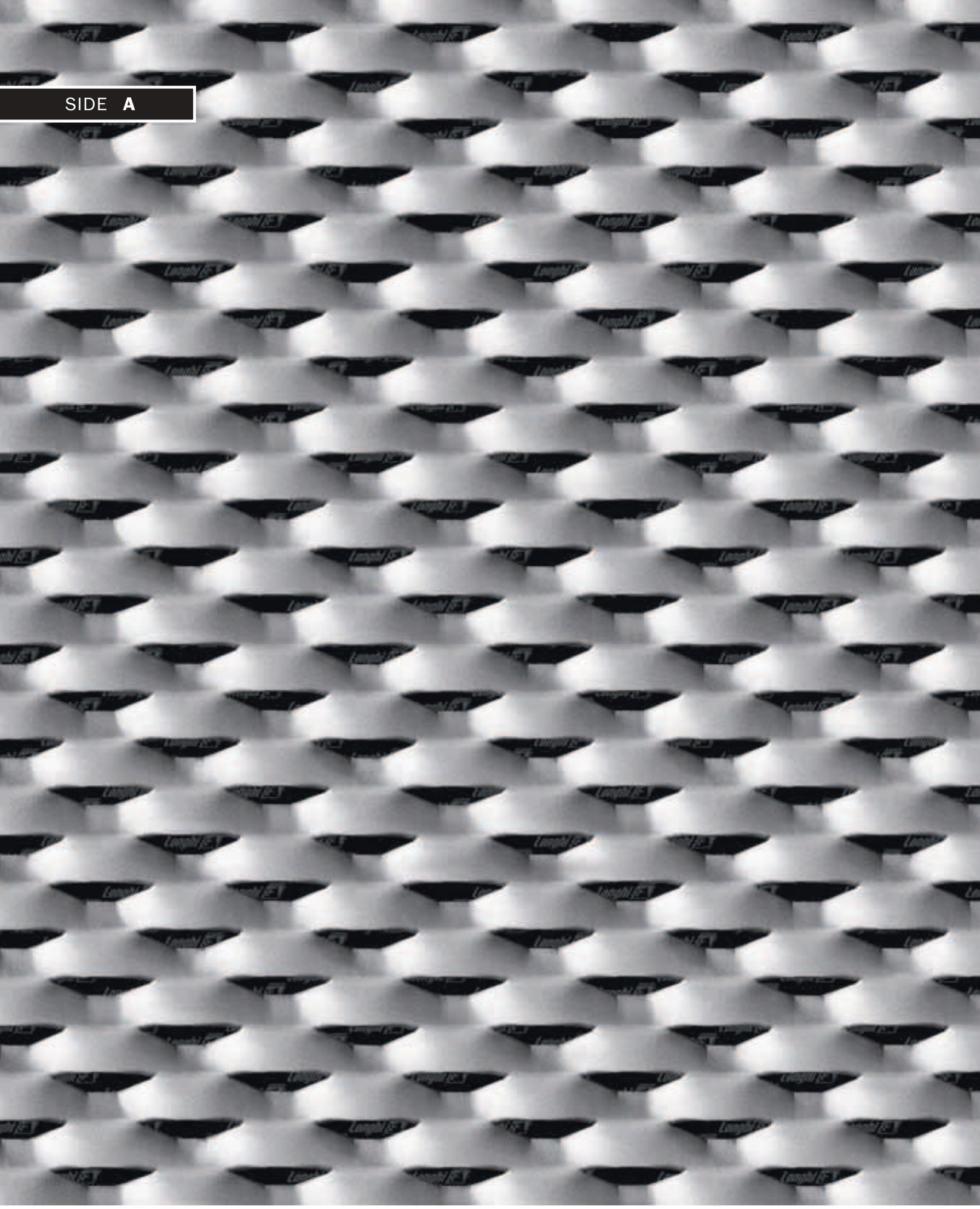
Available sheet size (mm)

MS/**t** 1,5 **LW** 1000 x **SW** 2000	MS/**t** 2 **LW** 1250 x **SW** 2500
MS/**t** 1,5 **LW** 1250 x **SW** 2500	AL / **t** 1,5/2 **LW** 1000 x **SW** 2000
MS/**t** 1,5 **LW** 1500 x **SW** 3000	AL / **t** 1,5/2 **LW** 1250 x **SW** 2500
MS/**t** 2 **LW** 1000 x **SW** 2000	AL / **t** 1,5/2 **LW** 1500 x **SW** 3000

Sheet thickness (mm)	% front open area
measured at the centre 6 (~) ◆	14 (~)

MS = Mild Steel - AL = Aluminium

◆ Framing profiles: see page 193



Village

R 43 x 23 - 10 x t

TYPE | LW | SW | w | t

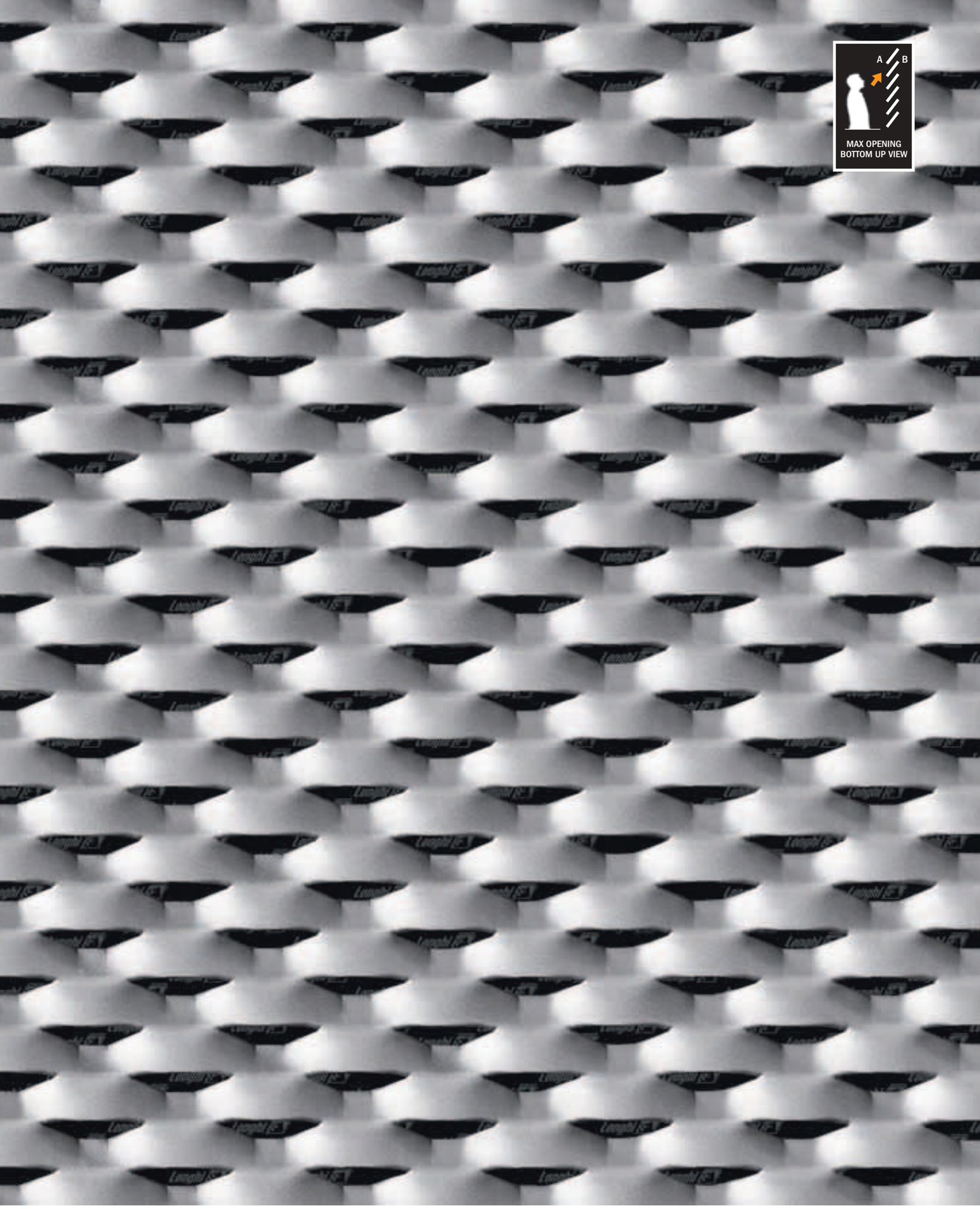
A / B

View → 90°

1:1 scale

Italfim

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)
R 43 x 23 - 10 x **1,5**	10,30	3,50
R 43 x 23 - 10 x **2,0**	13,70	4,70

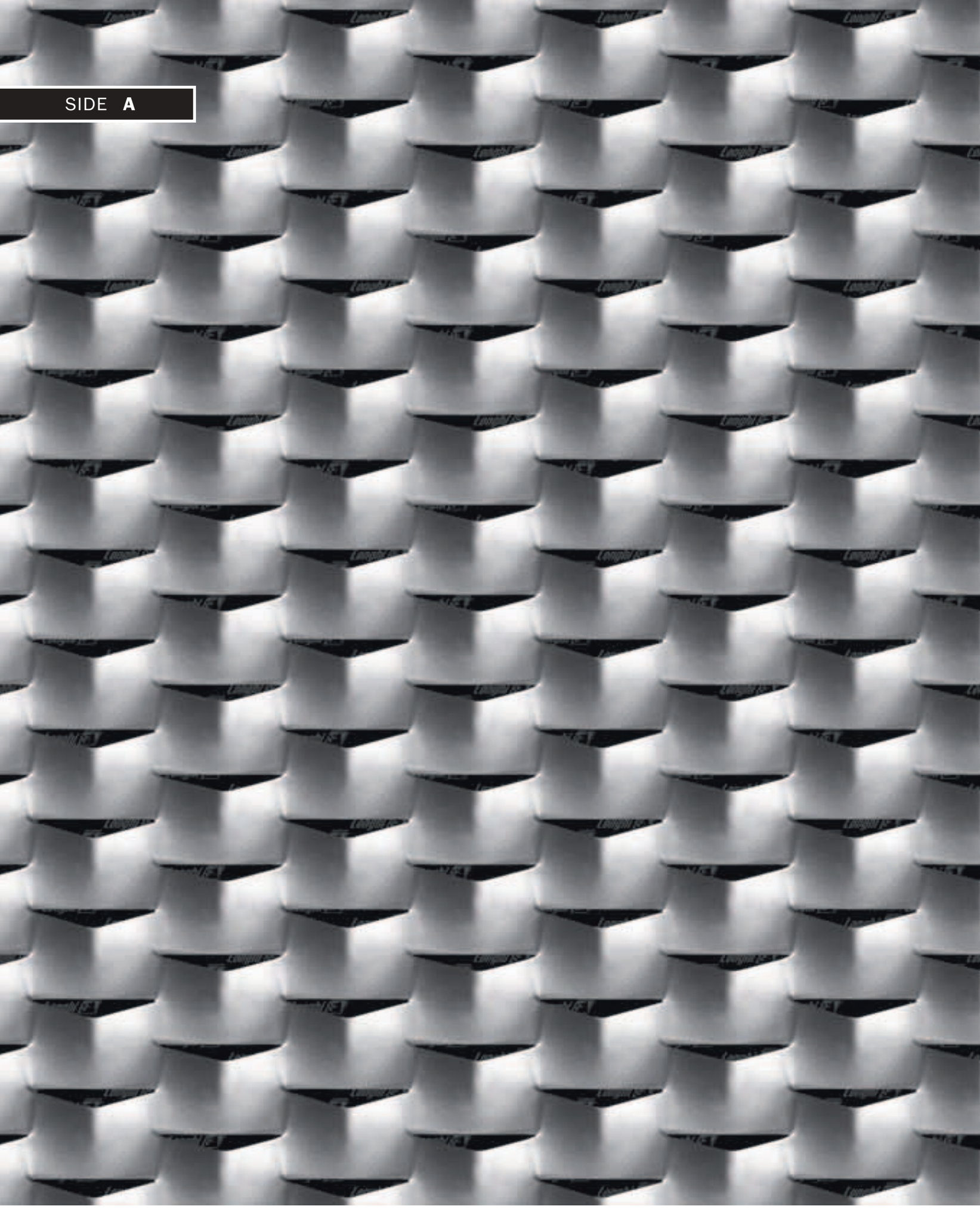
Available sheet size (mm)

MS/**t** 1,5 **LW** 1000 x **SW** 2000	MS/**t** 2 **LW** 1250 x **SW** 2500
MS/**t** 1,5 **LW** 1250 x **SW** 2500	AL / **t** 1,5/2 **LW** 1000 x **SW** 2000
MS/**t** 1,5 **LW** 1500 x **SW** 3000	AL / **t** 1,5/2 **LW** 1250 x **SW** 2500
MS/**t** 2 **LW** 1000 x **SW** 2000	AL / **t** 1,5/2 **LW** 1500 x **SW** 3000

Sheet thickness (mm)	% front open area
measured at the centre 8 (~) ◆	15 (~)

MS = Mild Steel - AL = Aluminium

◆ Framing profiles: see page 193



Office

R 62 x 22 - 10 x t

TYPE | LW | SW | w | t

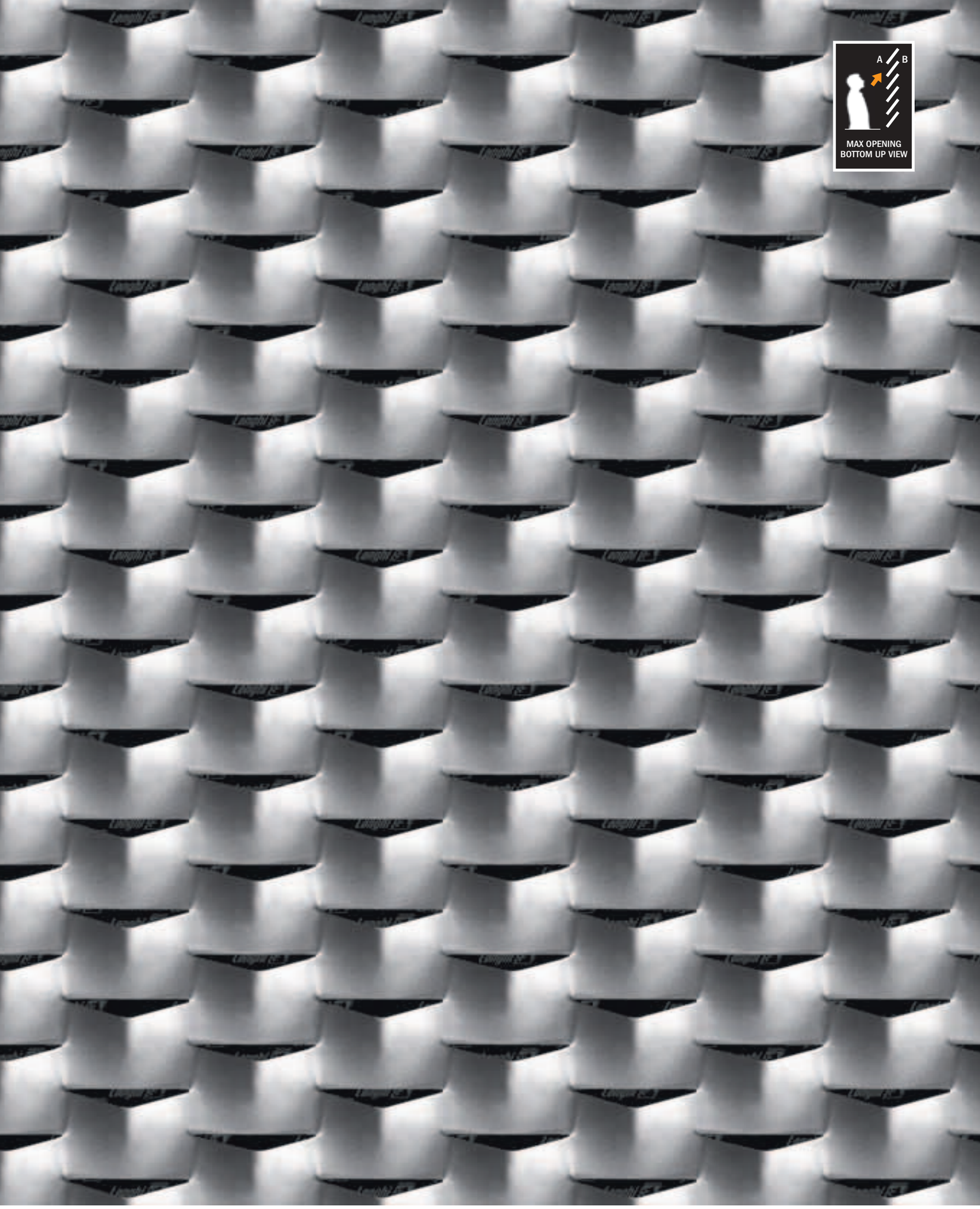
A B

View → 90°

1:1 scale

Italfim

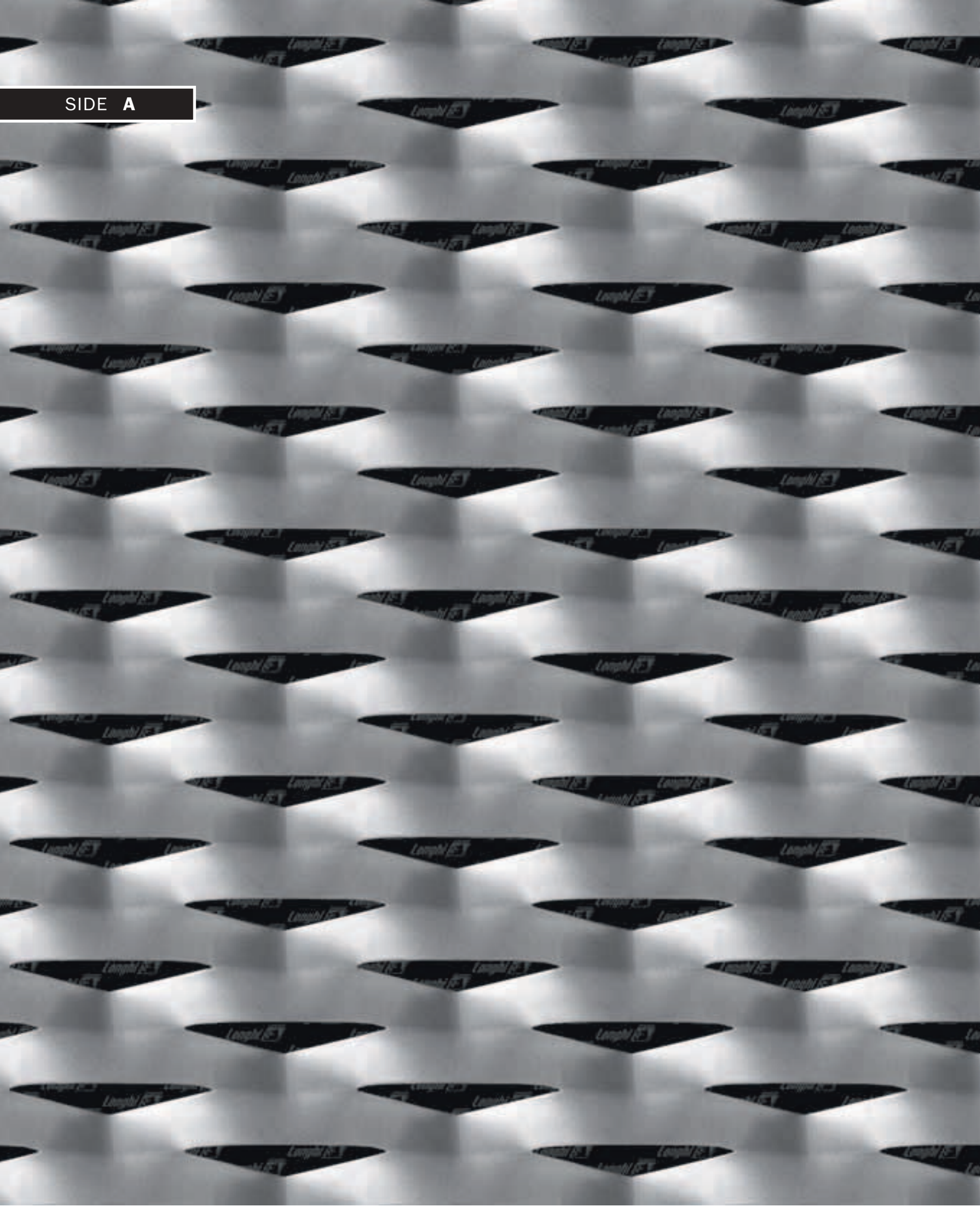
stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 62 x 22 - 10 x **1,5**	10,50	3,60	MS/**t** 1,5/2 **LW** 1000 x **SW** 2000 MS/**t** 1,5/2 **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	measured at the centre 9 (~) ◆	12 (~)
R 62 x 22 - 10 x **2,0**	14,10	4,90			

MS = Mild Steel - AL = Aluminium

◆ Framing profiles: see page 193



Palace

R 85 x 30 - 13 x t

TYPE | LW | SW | w | t

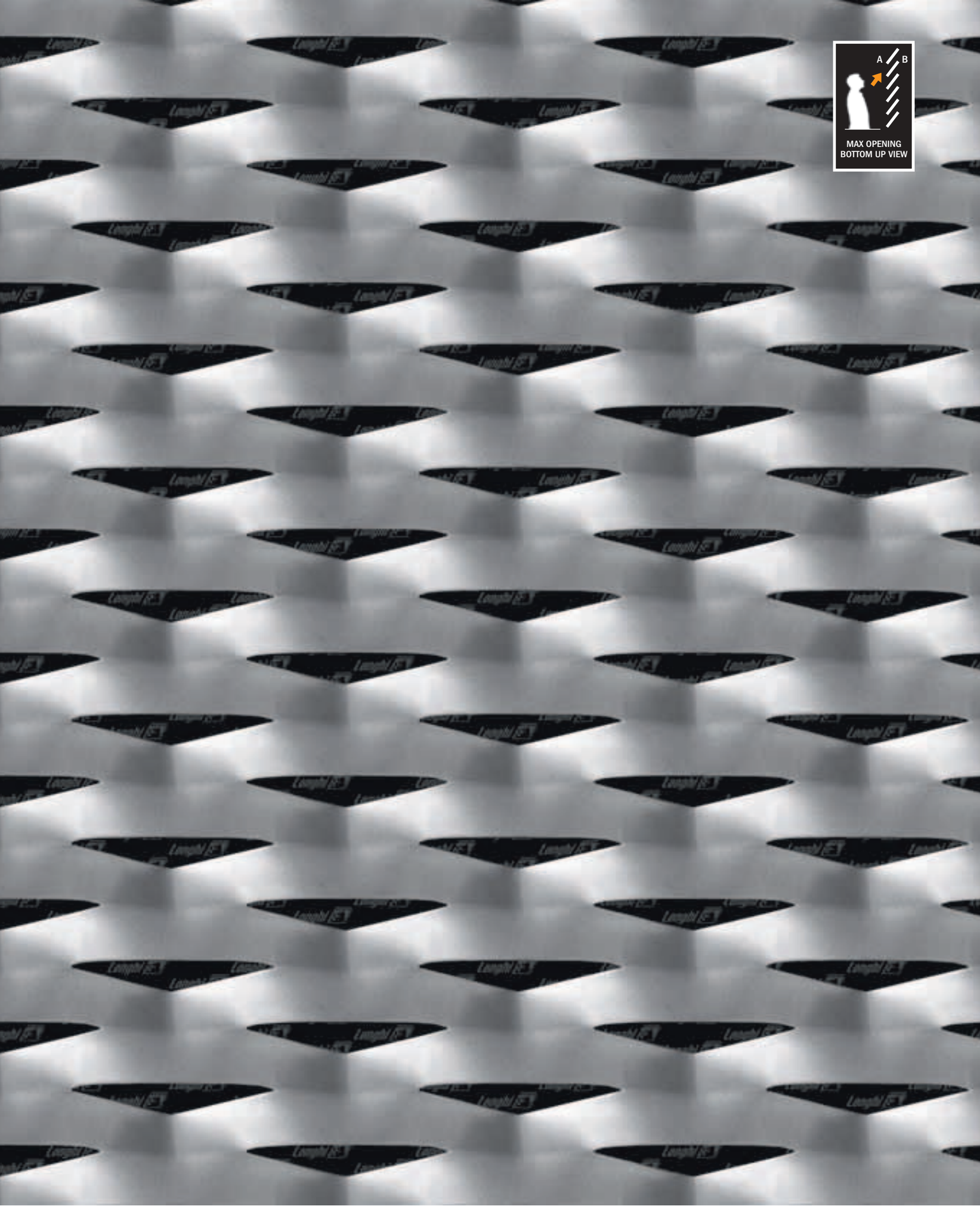
A B

View → 90°

1:1 scale

Italfim

stiltech

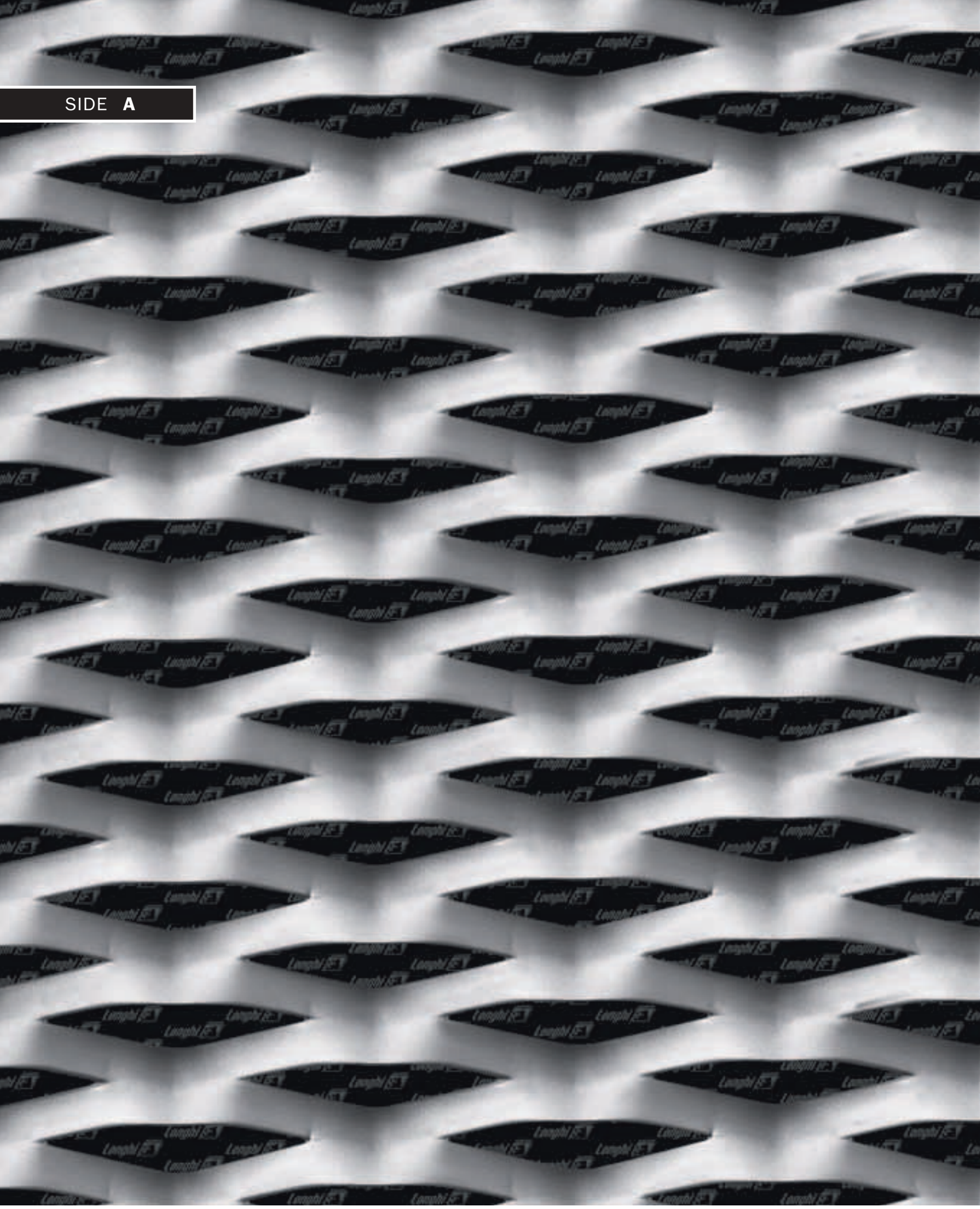


Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)
R 85 x 30 - 13 x **1,5**	10,50	3,60
R 85 x 30 - 13 x **2,0**	14,10	4,80

Available sheet size (mm)		Sheet thickness (mm)	% front open area
MS/**t** 1,5 **LW** 1000 x **LW** 2000	MS/**t** 2 **LW** 1250 x **LW** 2500	measured at the centre	
MS/**t** 1,5 **LW** 1250 x **LW** 2500	AL / **t** 1,5/2 **LW** 1000 x **LW** 2000	11 (~) ◆	18 (~)
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		

MS = Mild Steel - AL = Aluminium

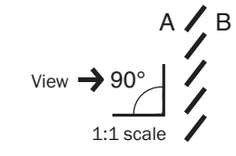
◆ Framing profiles: see page 193



Country

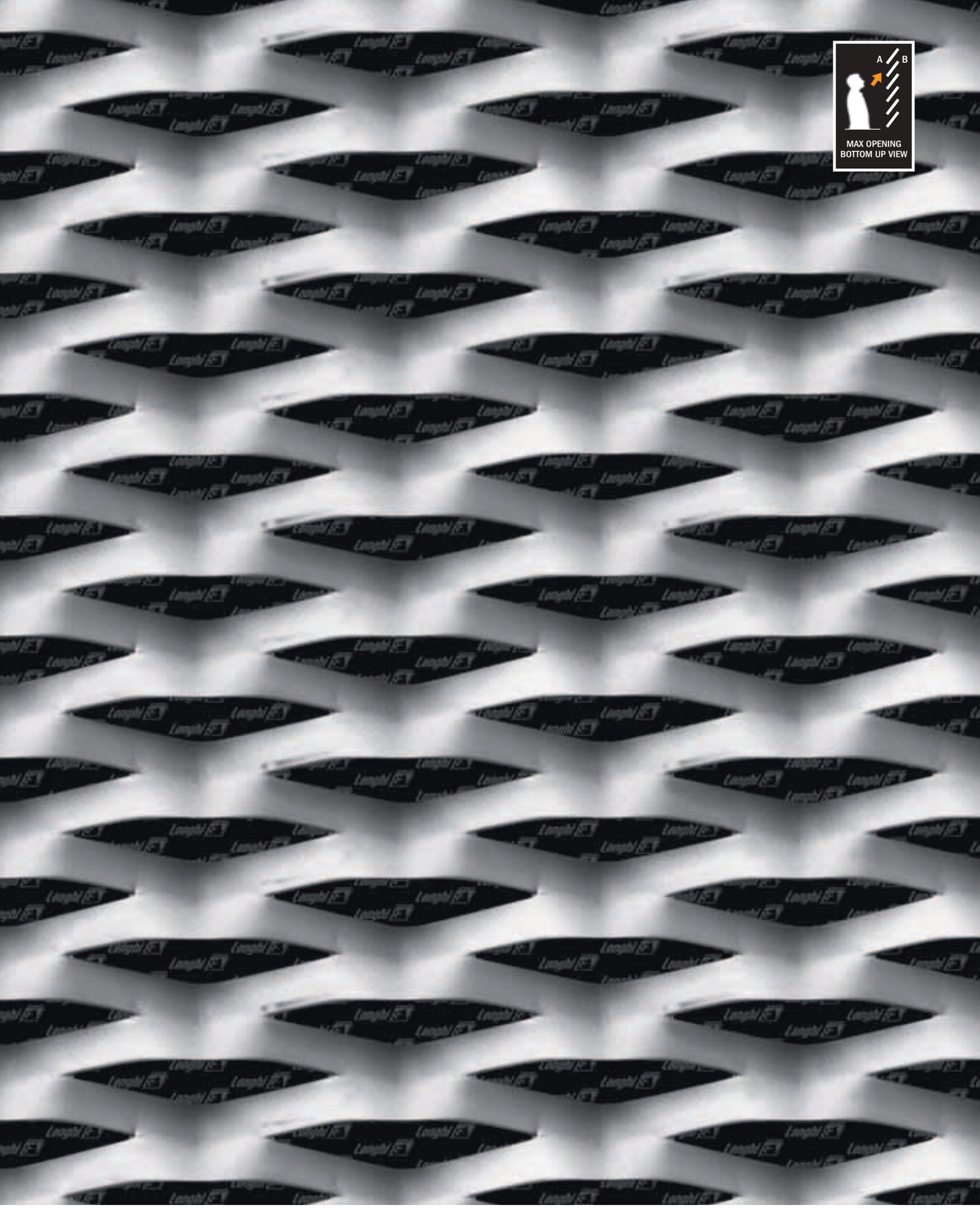
R 100 x 30 - 11 x t

TYPE | LW | SW | w | t



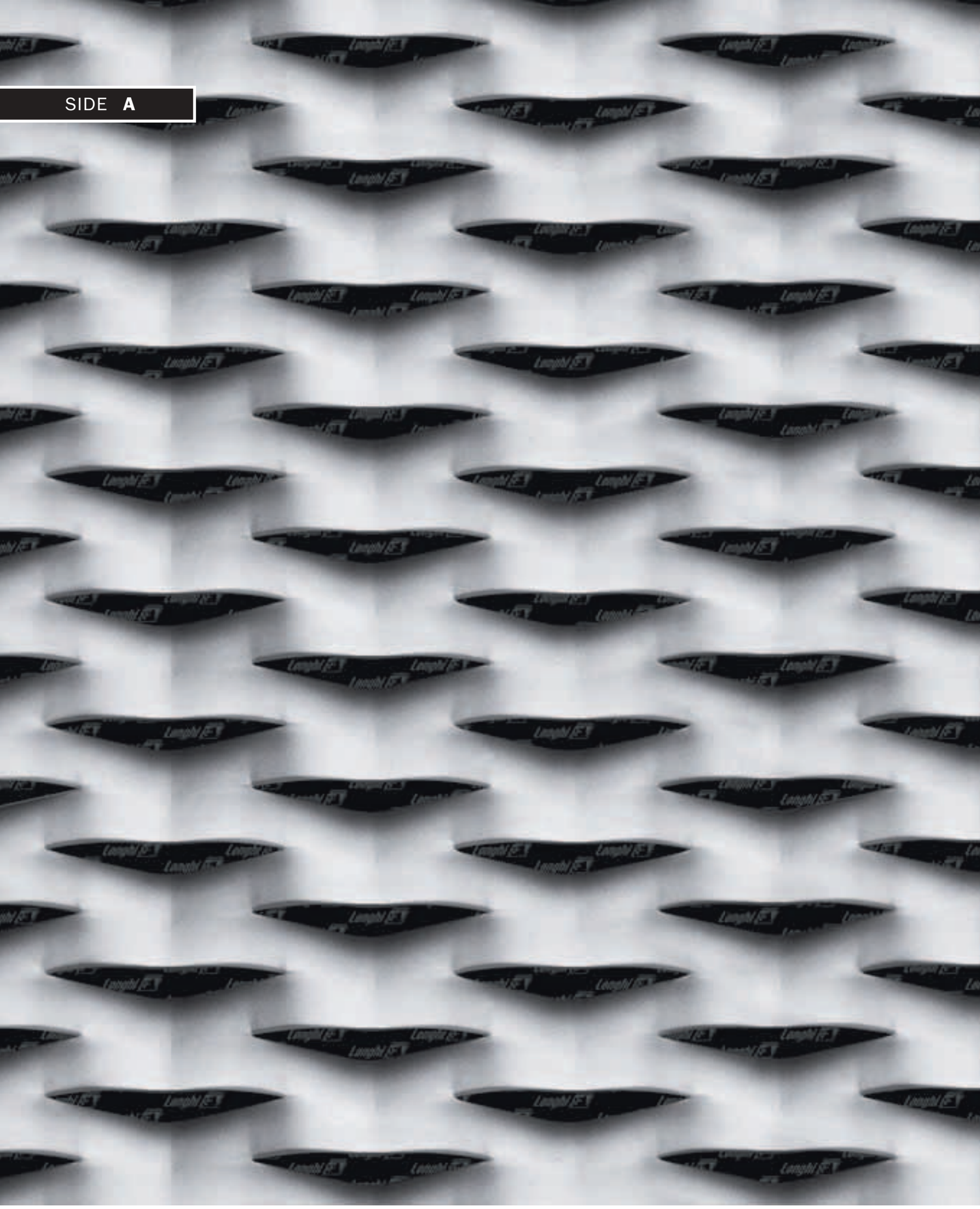
Italfim

stiltech



Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 100 x 30 - 11 x **1,5**	8,80	3,00	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 14 (~) ◆	30 (~)
R 100 x 30 - 11 x **2,0**	11,75	4,00			

◆ Framing profiles: see page 193



Urban

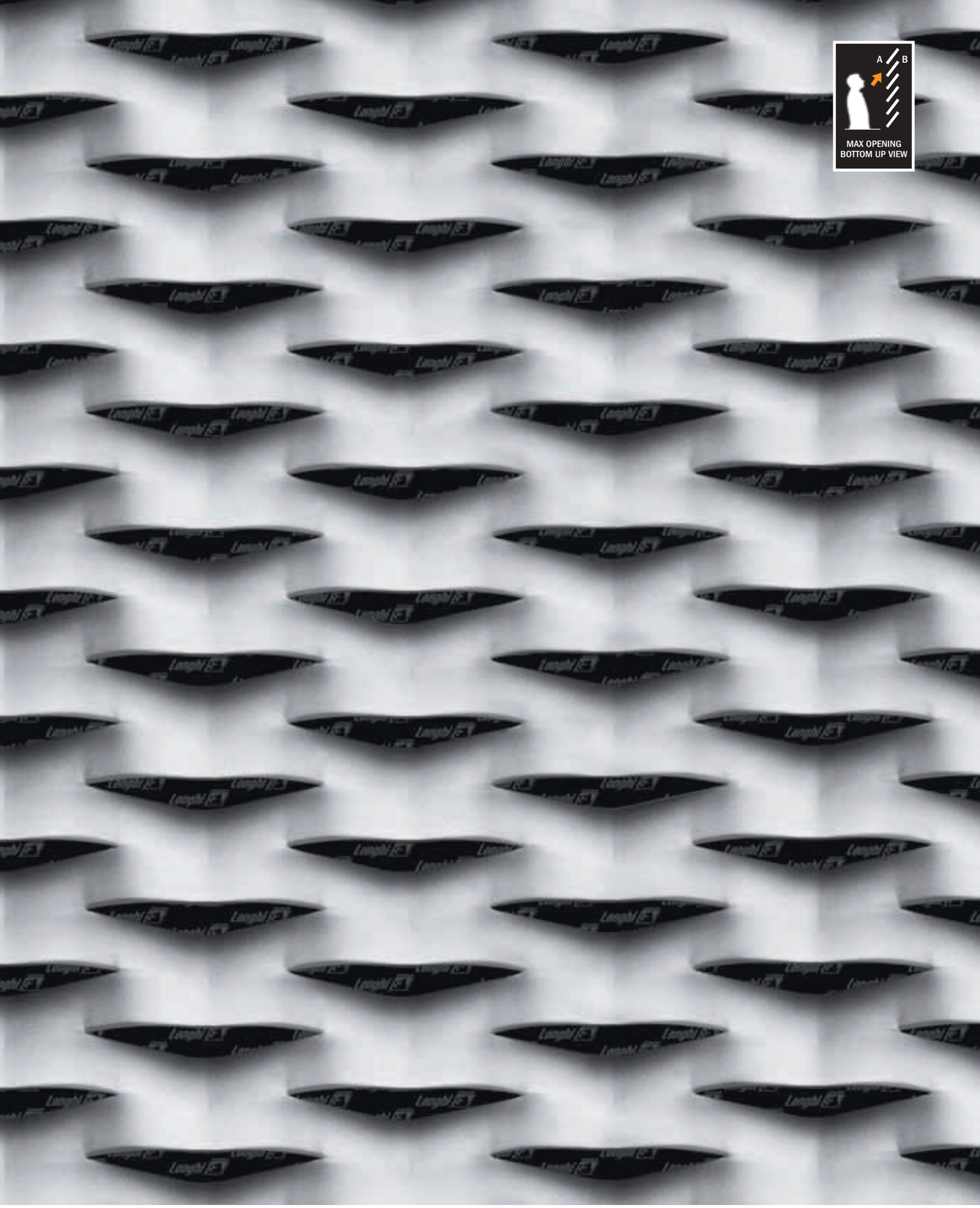
R 100 x 30 - 13 x t

TYPE | LW | SW | w | t

A B

View → 90°

1:1 scale

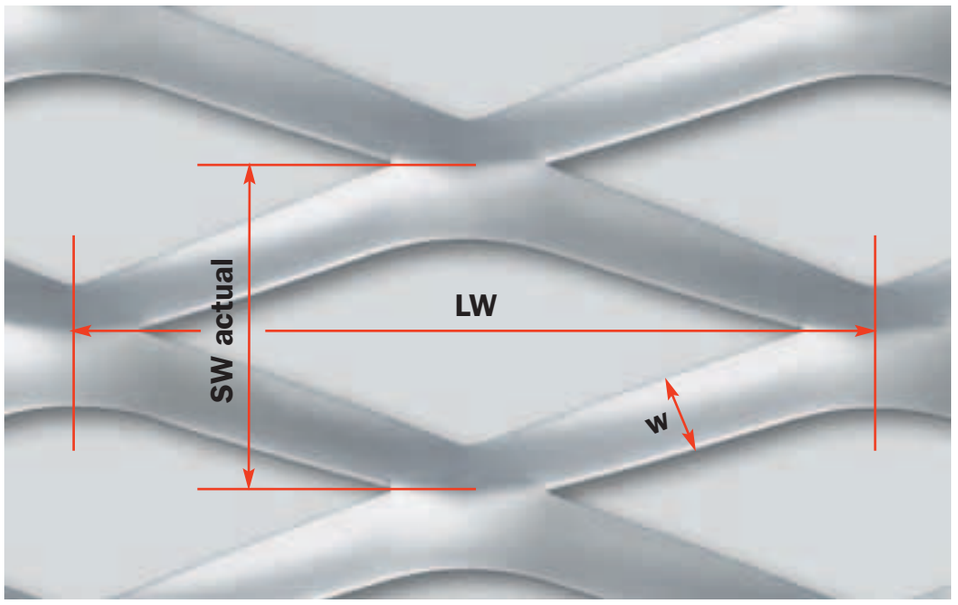


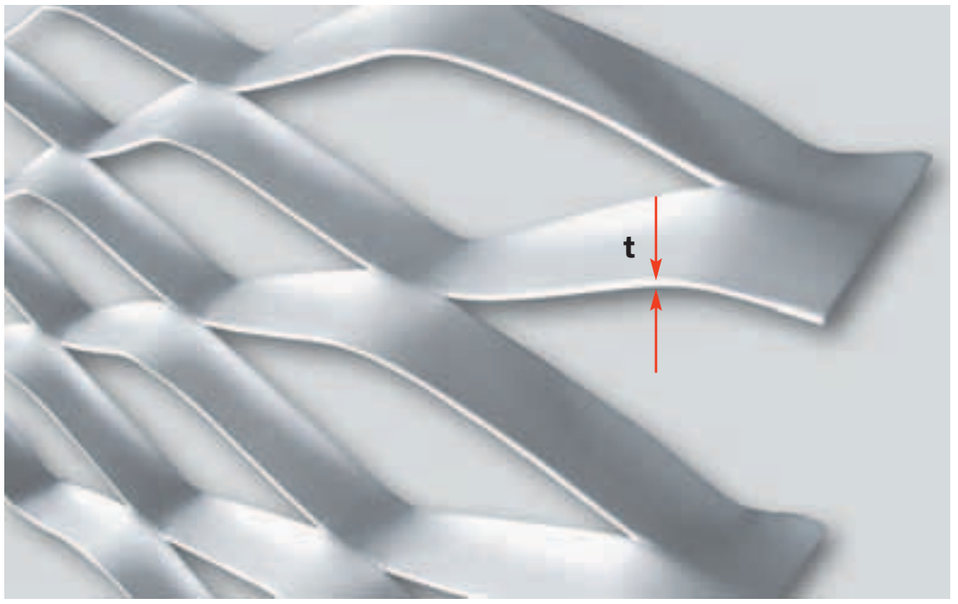
Type - LW x SW - w x t (mm)	Mild steel (kg/m²)	Aluminium (kg/m²)	Available sheet size (mm)	Sheet thickness (mm)	% front open area
R 100 x 30 - 13 x **1,5**	10,40	3,55	**LW** 1000 x **SW** 2000 **LW** 1250 x **SW** 2500 **LW** 1500 x **SW** 3000	measured at the centre 13 (~) ◆	17 (~)
R 100 x 30 - 13 x **2,0**	13,40	4,70			

◆ Framing profiles: see page 193

LEGENDA

PROTECH MESH SPECIFICATION





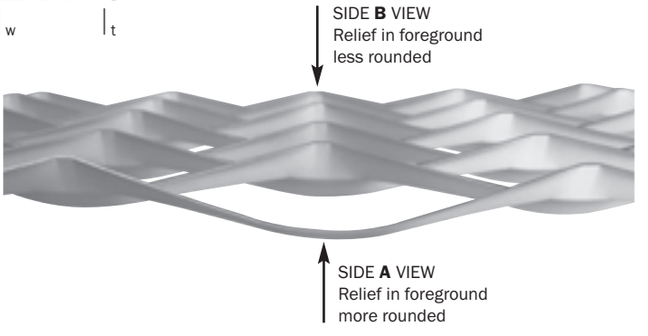
IMPORTANT NOTE
In order to dimension correctly the profile, it is recommendable to measure the sheet thickness along the perimeter. The final sheet thickness at the perimeter may differ from the nominal value indicated on the data sheet.

LEGENDA

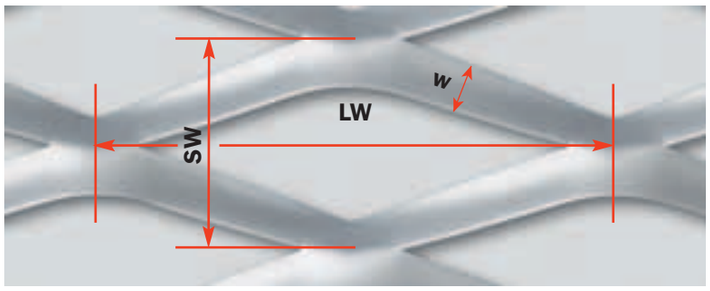
LW Long way pitch
SW Short way pitch
SW Short way pitch **actual**
w Strand Width
t Thickness

EXAMPLE OF ID CODE FOR MESH **COLISEUM**
DATA IN MM

R 200 x 75 (80) - 24 x t
TYPE | LW | SW NOMINAL | SW ACTUAL | w | t

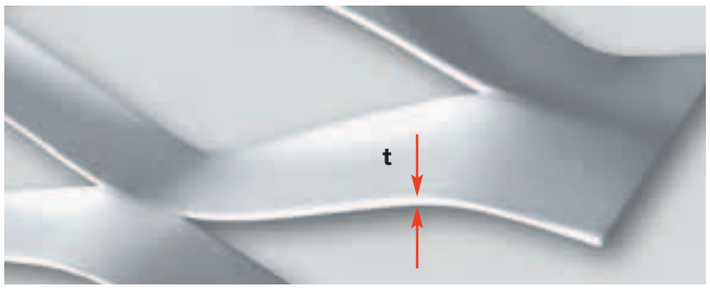


STILTECH MESH SPECIFICATION



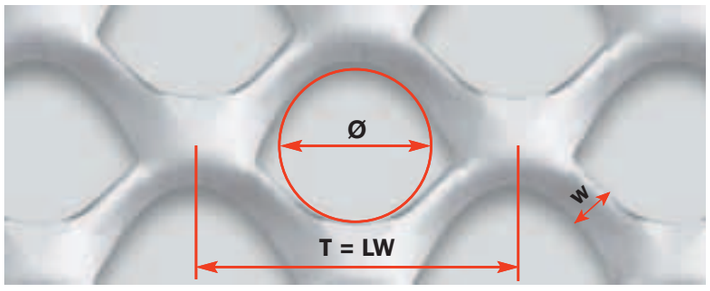
SPECIFYING **DIAMOND** MESHES

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



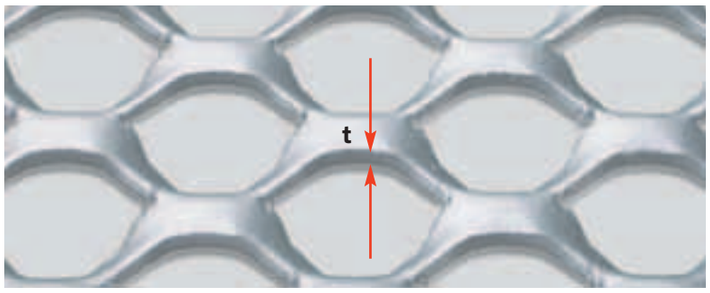
EXAMPLE OF ID CODE FOR MESH **RB 45**
DATA IN MM

R 28 x 14 - 5 x t
TYPE | LW | SW | w | t



SPECIFYING **ROUND HOLE** OR "T" MESHES

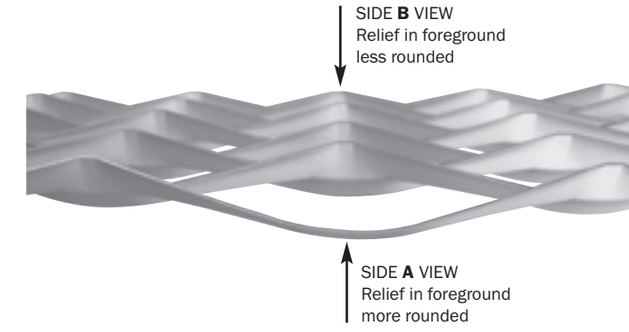
T = LW Long way pitch
w Strand Width
t Thickness
Ø Inscribed circle diameter (~)
T = These meshes are **not flattened**



EXAMPLE OF ID CODE FOR MESH **TAU 40**
DATA IN MM

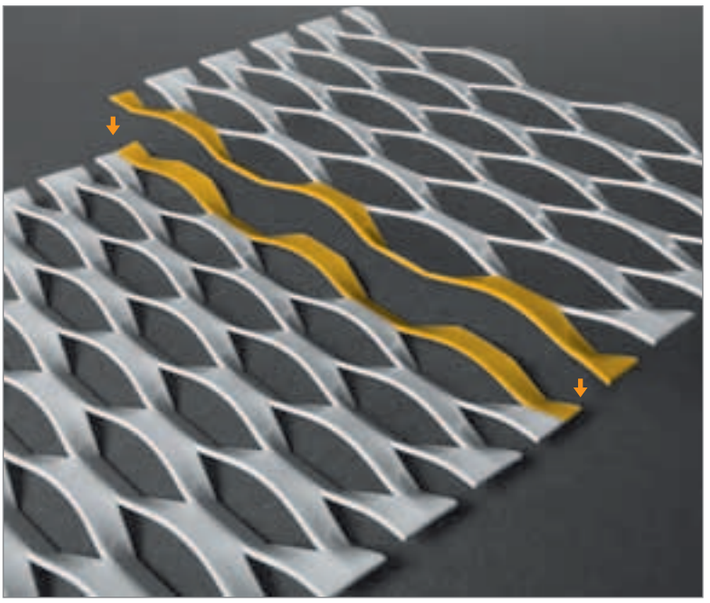
T 20 - 3,25 x t - Ø10
TYPE | LW | w | t | Inscribed circle diameter

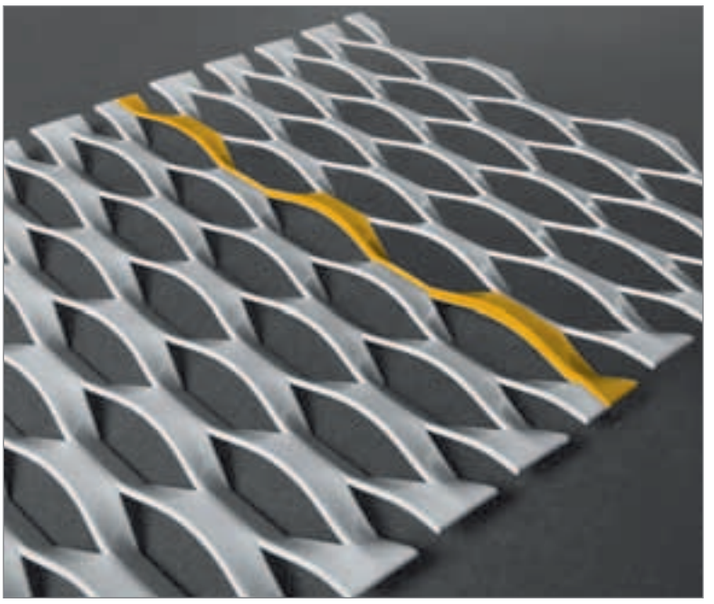
IMPORTANT NOTE
In order to dimension correctly the profile, it is recommendable to measure the sheet thickness along the perimeter. The final sheet thickness at the perimeter may differ from the nominal value indicated on the data sheet.



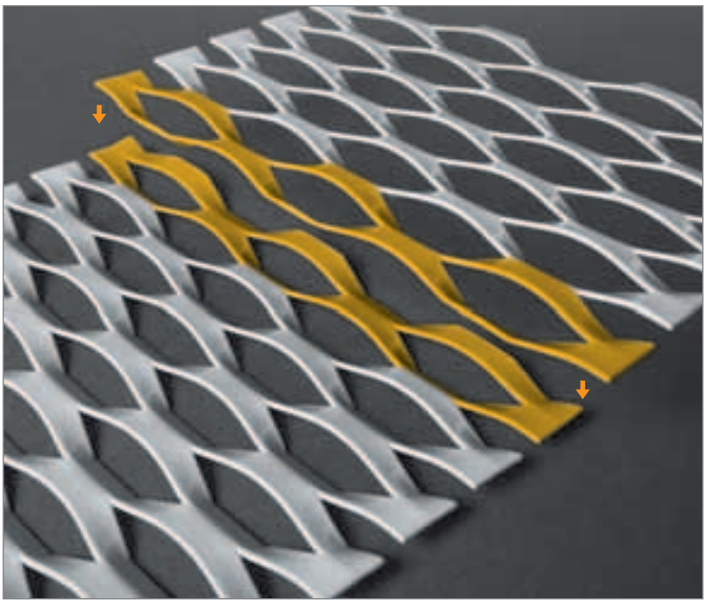
MODULARITY

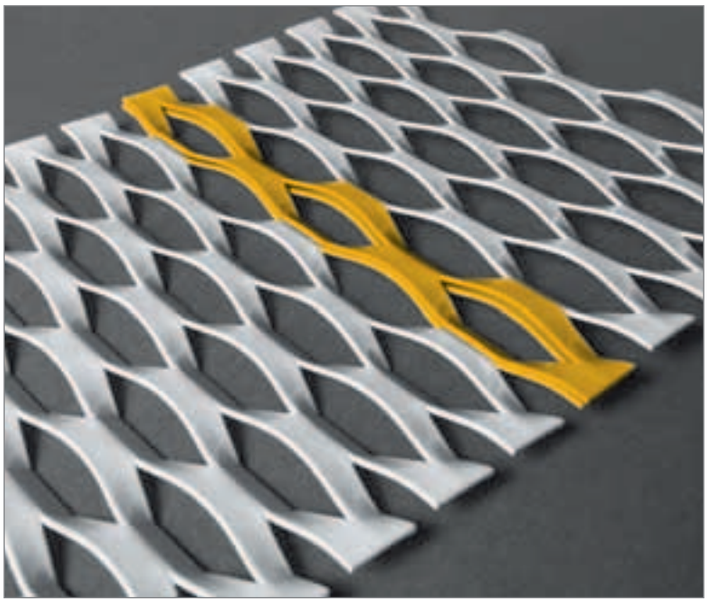
Surfaces of any shape and size can be created.
Expanded mesh can be cut, bent, and curved.
Panels are available in standard dimensions.
Panels built to measure are also available on request.





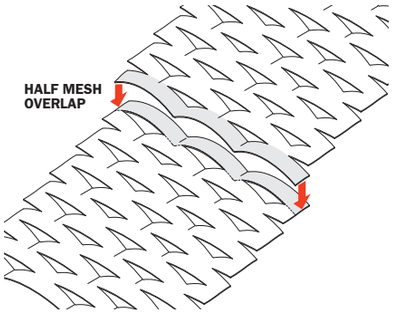
HALF MESH OVERLAP - SIDE A

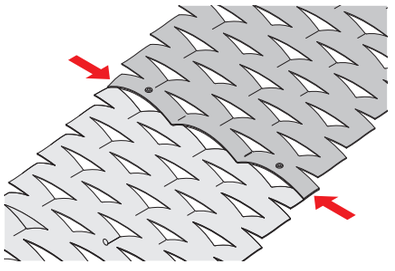


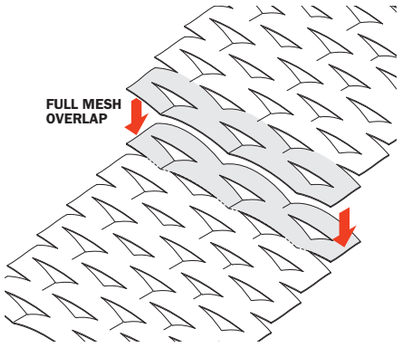


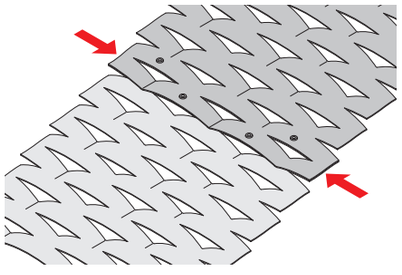
FULL MESH OVERLAP – SIDE A

Possible mesh combinations

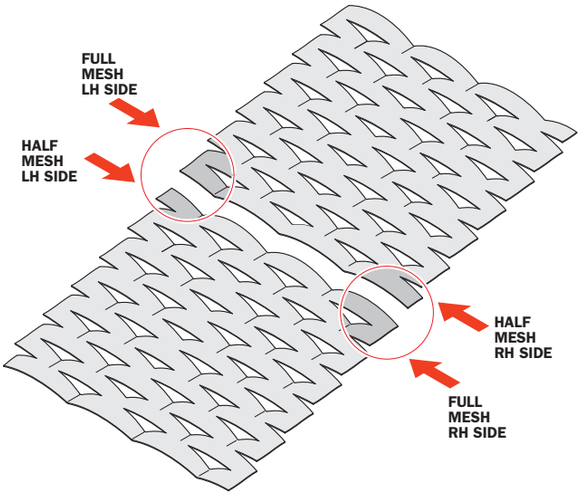


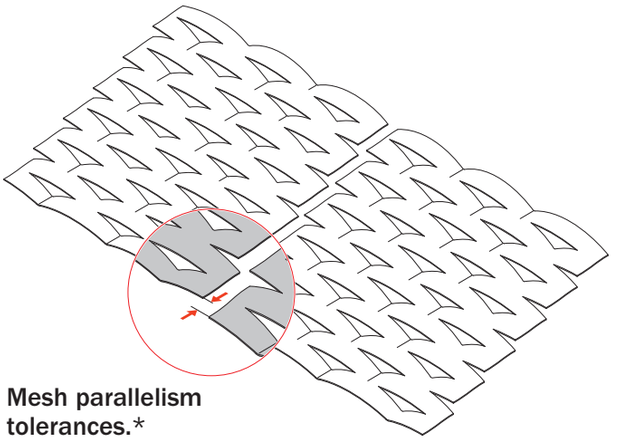




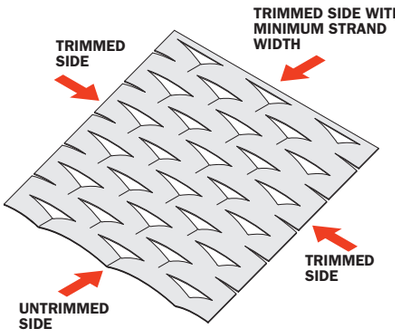


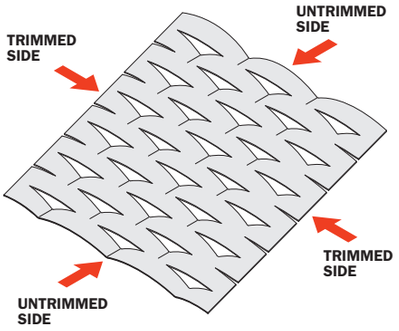
Mesh trimming





Mesh parallelism tolerances.*





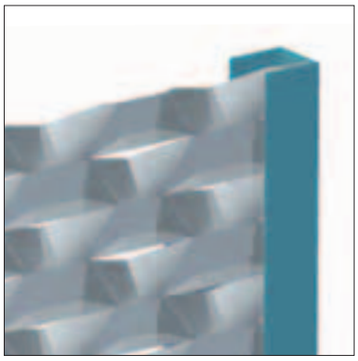
* Please contact our experts for further details about production tolerances

FIXING SUGGESTIONS

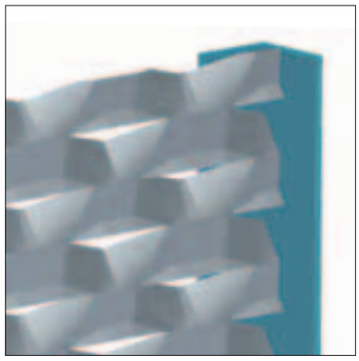
Expanded mesh can be fixed in a number of different ways. Here are a few popular examples.
Panels can be trimmed and then framed in various profiles offering a protected edge to the material and allowing the panels to sit more uniformly side by side. The mesh can then be fixed or welded to the substructure 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

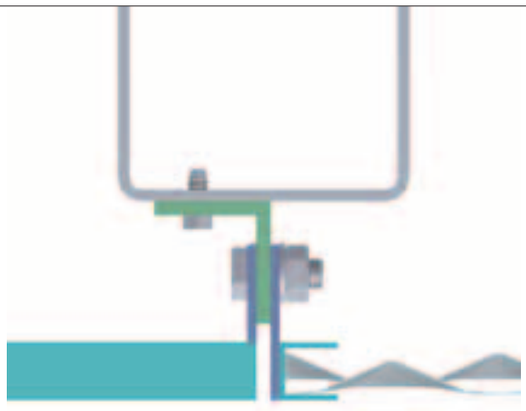


"**U**" section profile. Expanded mesh welded on the inside.

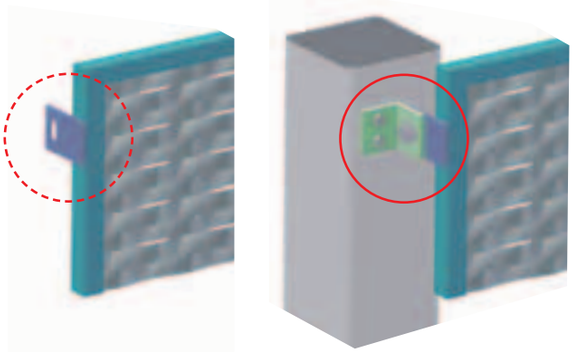


"**L**" section profile. The side of the frame is concealed.

Fixing system with plates

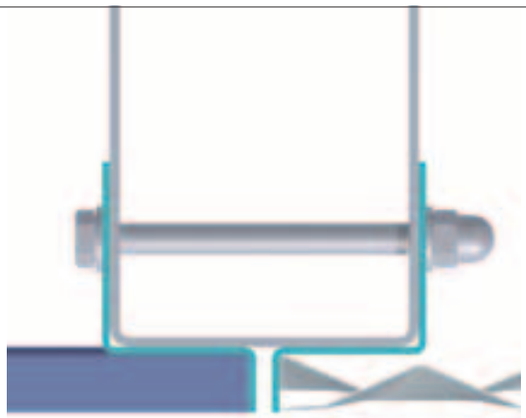


Top view Section

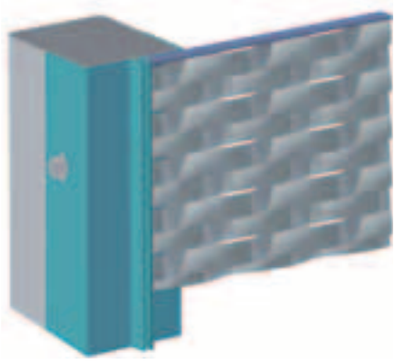


Fixing to supporting structure by plate and bracket.
The mesh is welded to the profile frame.

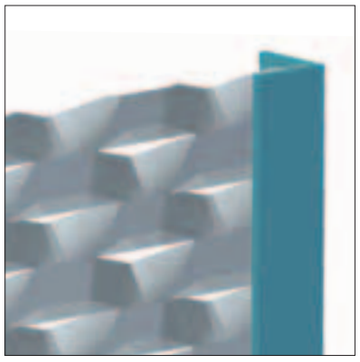
Fixing System with profiles



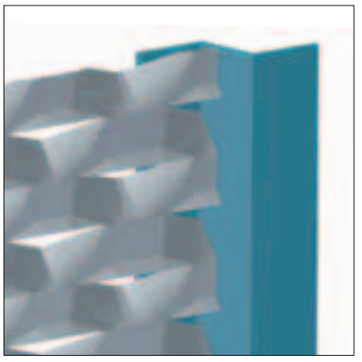
Top view Section



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

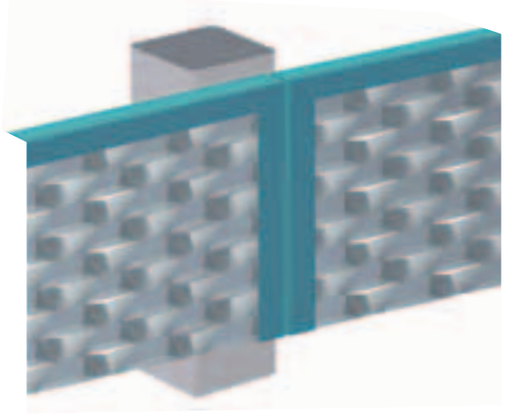


“**L**” section profile.
The side of the frame is visible.

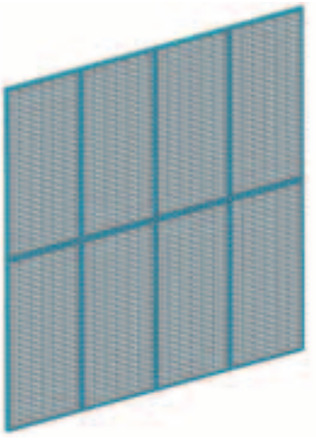


“**Z**” section profile.
Expanded mesh welded on the inside.

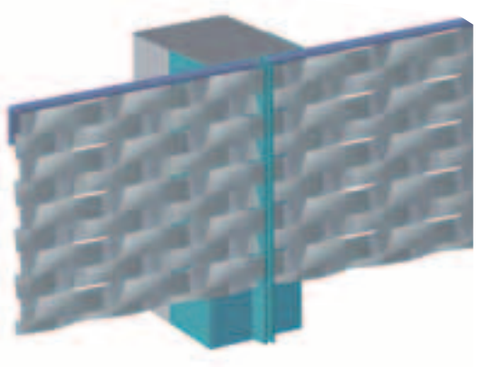
Panel joining



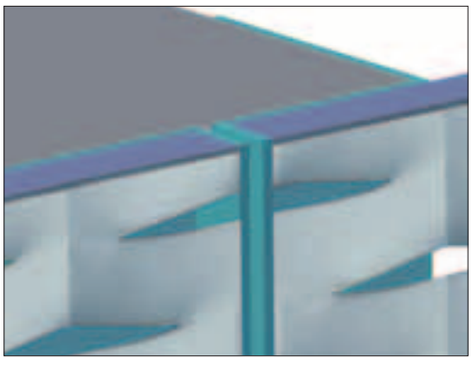
Modular positioning



Panel joining



Modular positioning



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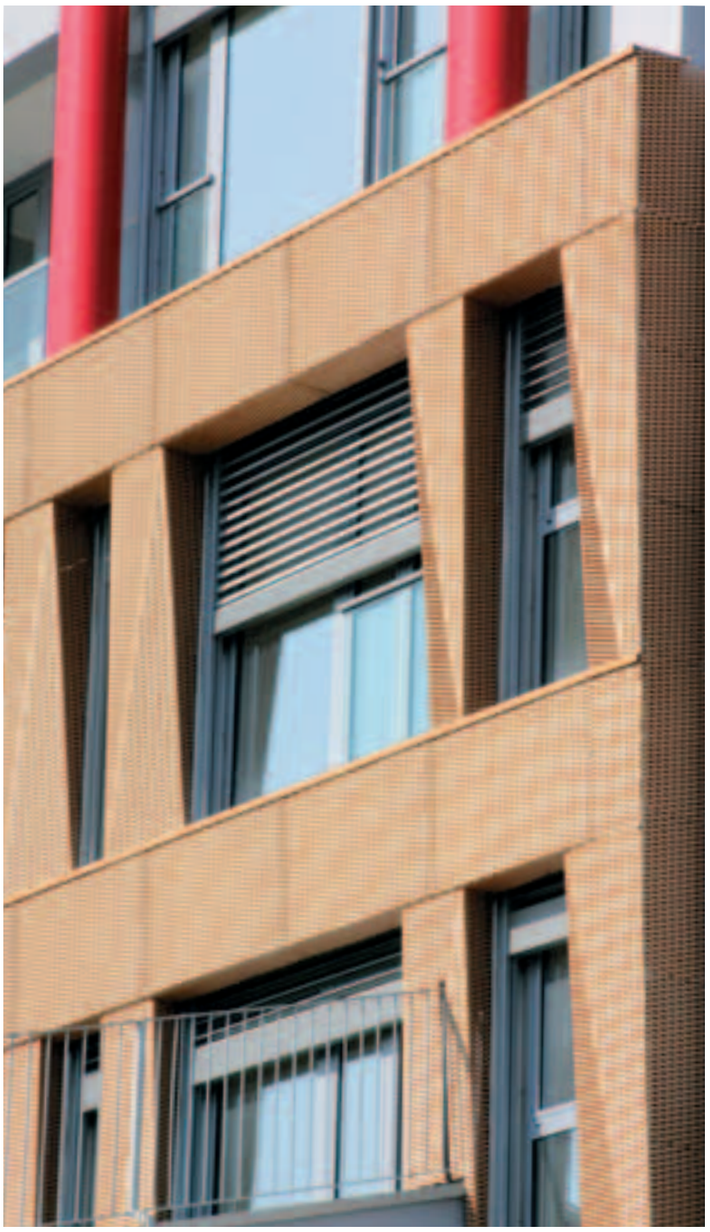
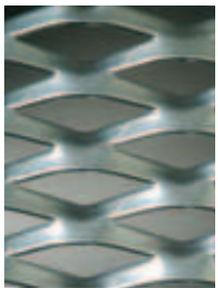
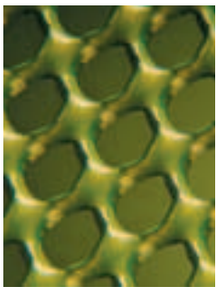
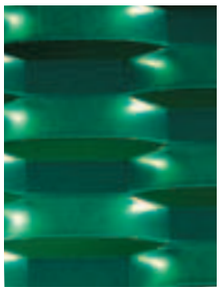
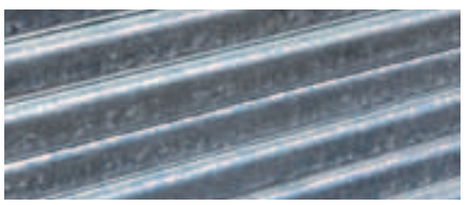






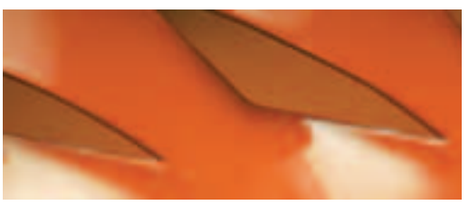


FINISH COMPARISON	CARBON STEEL + HOT DIP GALVANISING	SENDZIMIR CARBON STEEL + POWDER COATING FOR INDOOR/OUTDOOR	CARBON STEEL + POWDER COATING FOR INDOOR	ALUMINIUM + POWDER COATING FOR INDOOR/OUTDOOR	ALUMINIUM + ANODISING FOR INDOOR/OUTDOOR
Colour spectrum					
Corrosion resistance	★★★★	★★★	★★★	★★★★★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

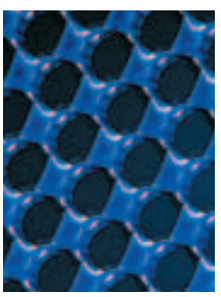


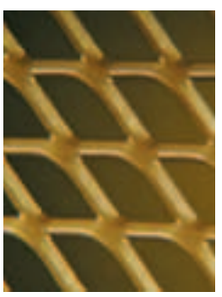
Hot-dip galvanizing
Hot-dip galvanizing is a surface coating treatment for the protection of metals based on the properties of molten zinc. A recently hot-dip galvanized surface is at first bright and shiny and then takes on a matte light color over time.

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.





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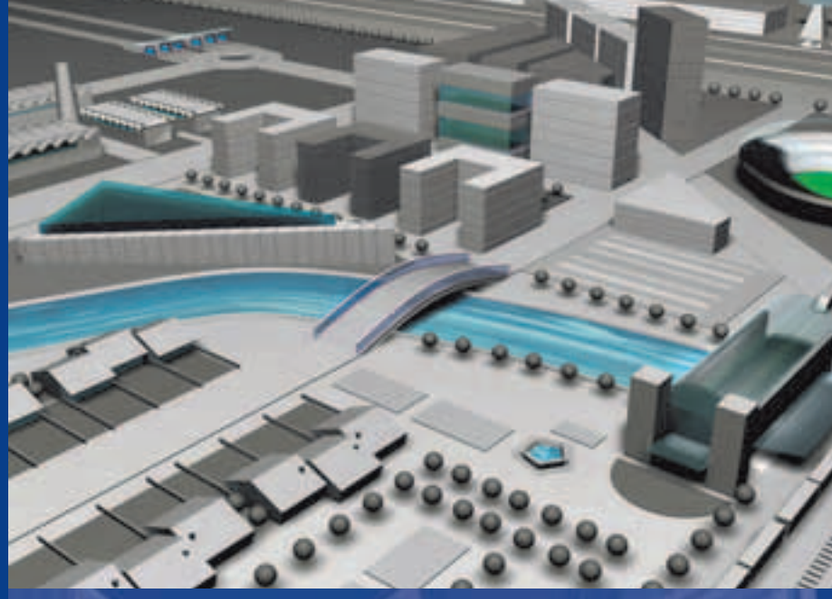

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