



A Tata Steel Enterprise

Acoustics.

Acoustics and design with perforated Montana profiles and liner trays



SWISS MADE⁺

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Ökihof, Unterägeri (CH)

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Technical details



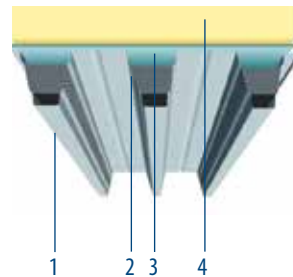
LESS NOISE, LESS COST

TOP MEASURED VALUES WITH MONTANA CONSTRUCTIONS

Montana profiles and liner trays attain excellent noise absorption values in transportation facilities and industrial acoustics. The highly effective solutions from Montana with perforated roof panels provide distinct cost advantages compared with subsequently fitted and traditional suspended acoustic ceilings. Savings of up to 30–50% are possible.

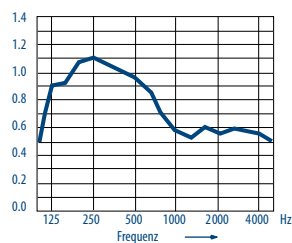
EXAMPLES FOR CERTIFIED CONSTRUCTIONS

FLAT ROOF

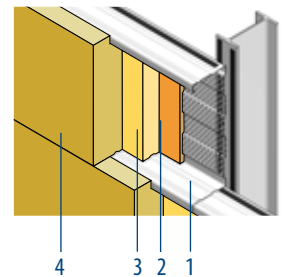


- 1 SWISS PANEL® SP 160 A
- 2 Acoustic strip for SP 160 A
- 3 Vapour barrier Sarnafil 1000 E
- 4 Insulation Isover Thickness 100 mm
Density 125 kg/m³ BKZ 6q.3

Statistic noise
absorption level
in accordance with ISO 354:

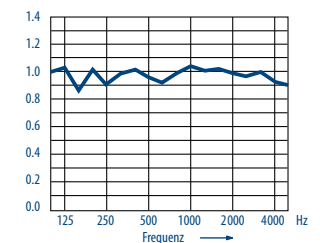


MONTAPLUS®



- 1 MONTAWALL® MK 140/600A
- 2 ISOVER ISOLENE P, 20 mm
- 3 ISOVER ISOCONFORT 032 PR, 60 mm
- 4 ISOVER CLADISOL 032, 140 mm

Statistic noise
absorption level
in accordance with ISO 354:



There are more certified roof and wall constructions with excellent noise absorption values in our technical documentation Acoustics 7.10.

AESTHETICS,

FROM ACOUSTIC TO VISUAL APPLICATION

More and more architects are experimenting with the optical properties of perforated Montana profiles, with special attention being paid to the selective light transmitting capacity of the profile panels: the effect of daylight on the inside or of artificial light at night to the outside. This results in wonderful transparencies, which give the structure an additional dimension with a great deal of light and ease. You can see other perforated designs and request a visit from a Montana specialist by visiting our home page at www.montana-ag.ch!



Postfinance Arena, Bern (CH)



Raiffeisenarena, Hägendorf (CH)



Website
www.montana-ag.ch
With additional product
information and references.



Technical information
In the leaflet Acoustics 7.10
For downloading.



Colour chart
MONTACOLOR® collection with
full summary. For downloading.

EXPERIMENT, TRANSPARENCY

Fachmarktzentrum, München (D)

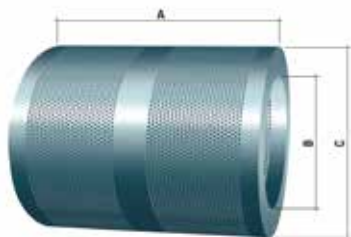


Columbus Treppen, Oberbüren (CH)



PERFORATION

CIRCULAR PERFORATIONS SCALE 1:1	DIAMETER mm	PITCH (Tg) mm	ARRANGEMENT staggered in-line	OPEN AREA WITH FULL PERFORATION %	MATERIAL mm Steel Aluminium	MAX. WIDTH mm	MIN. MARGIN OF THE EDGE mm	TOLERANCES mm Distance of the edge with special perforation	Pitch mm	TYPE OF PERFORATION
	3.0	5.0	●	32.7	0.70–1.00	1500	7.5	+/- 3.0	+/- 0.30	FULL PERFORATION ON THE WEB Open Area in %/m ² rollformed ON FLANGES Open Area in %/m ² rollformed
	3.0	5.5	●	23.4	0.70–0.80	1500	7.0	+/- 3.0	+/- 0.30	FULL PERFORATION ON THE WEB Open Area in %/m ² rollformed ON FLANGES Open Area in %/m ² rollformed
	4.0	6.0	●	40.3	0.70–1.00	1500	7.0	+/- 3.0	+/- 0.30	FULL PERFORATION ON THE WEB ON FLANGES
	4.0	7.0	●	29.6	0.70–1.25	1500	8.0	+/- 3.0	+/- 0.30	FULL PERFORATION ON THE WEB ON FLANGES Open Area in %/m ² rollformed
	5.0	8.0	●	35.4	0.70–1.25	1500	8.0	+/- 3.0	+/- 0.30	FULL PERFORATION ON THE WEB Open Area in %/m ² rollformed ON FLANGES Open Area in %/m ² rollformed
	8.0	12.0	●	40.3	0.70–1.25	1500	12	+/- 3.0	+/- 0.30	FULL PERFORATION ON THE WEB ON FLANGES
	11.0	14.0	●	64.3	0.80–1.50	1250	14	+/- 3.0	+/- 0.30	FULL PERFORATION ON THE WEB ON FLANGES



MEASUREMENT

A = min. 300 mm (Alu: 360 mm)
max. 1,500 mm
B = min. 500 mm / max. 600 mm
C = max. 1,200 mm

COIL MATERIAL

min. lengths = 15 m

MAX. WEIGHT

steel 10 t
aluminium 2.5 t

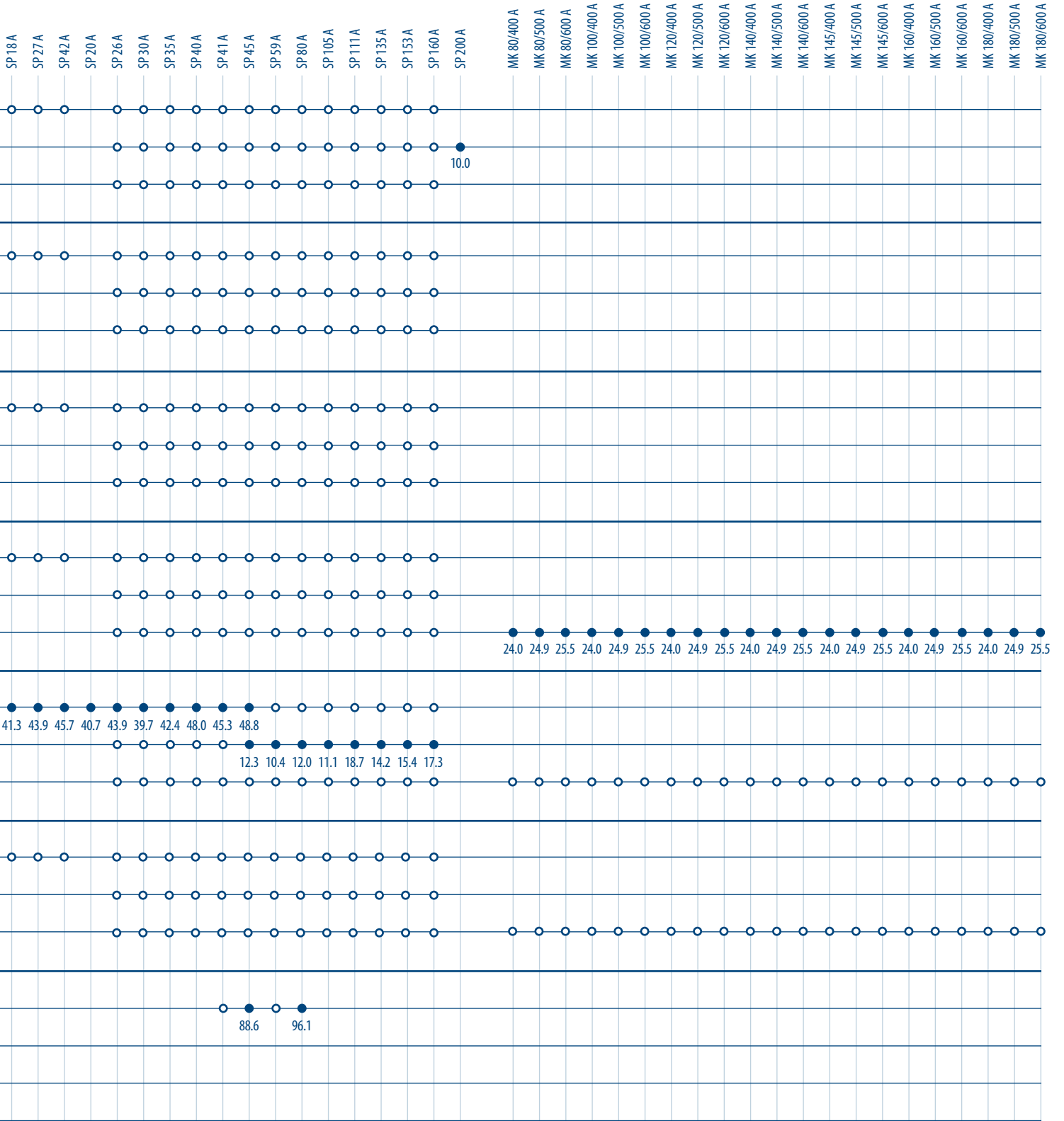
ON REQUEST

The perforated coils can be cut to flat sheets and bend until max. 8 m!

Flat sheets cannot be perforated!

SWISS PANEL®
According the feasibility

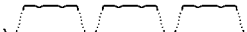
MONTAWALL®
According the feasibility



FULL PERFORATION



ON THE WEB



ON FLANGES



ON FLANGES



- Standard perforation
- Delivery on request (over 1000 m²)

www.montana-ag.ch

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