



A Tata Steel Enterprise

MONTAWALL®.

Steel load-bearing liner trays for industrial, transport and sports structures, with or without acoustic perforation



SWISS MADE⁺



LOAD BEARING. ELEMENTARY. MONTAWALL®.

MONTAWALL® – SUCCESSFUL AND ECONOMICAL FOR WALL AND CEILING STRUCTURES

MONTAWALL® liner trays form a variable system of load-bearing liner trays in various finishes, dimensions and lengths. The height and depth of the liner trays can be chosen at will. MONTAWALL® liner trays enable easy, inexpensive design and construction with very good insulation values. Perforated liner trays guarantee high sound absorption values in technically important frequency ranges and are used very successfully for economical compliance with noise protection requirements. Top architects like Santiago Calatrava, Herzog & de Meuron and many others have discovered the MONTAWALL® liner tray system; both for industrial buildings, as well as for transport infrastructure projects such as airports and railway stations, plus sports and leisure facilities.

BOOM IN THE STADIUM CONSTRUCTION SEGMENT

MONTAWALL® liner trays have proven themselves as wall and ceiling elements in the stadium construction segment, with virtually all FIFA-licensed stadiums in Switzerland being fitted with MONTAWALL® liner trays. The excellent static and acoustic properties mean that MONTAWALL® products are destined for lightweight construction.

MONTAPLUS® AND SWISSPORLAMBDA CASSETTE – LINER TRAY CONSTRUCTIONS OF THE LATEST GENERATION!

Rising energy costs, stricter laws and the conservation of the value of a building speak for high quality of building in industrial construction too. Together with market-leading partners (ISOVER, SWISSPOR, SFS), Montana has further developed and optimised the tried and tested liner tray constructions. Through the consistent reduction of the thermal bridges that have been typical of the cassette design until now, very good thermal insulation values can be achieved. Both of the liner tray constructions developed combine outstanding insulating properties with the multifaceted advantages of a ventilated façade design. These include in particular the advantages in terms of building physics due to the rear ventilation, thermal protection in summer and a virtually endless variety of designs thanks to the most diverse cladding variations. The liner tray constructions MONTAPLUS® and swissporLAMBDA Cassette thus underline their sustainable added value compared with other designs.



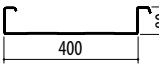
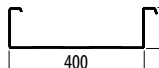
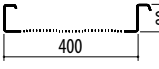





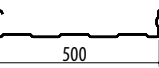
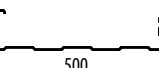
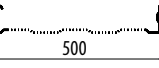







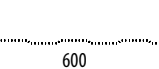





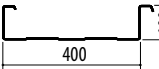
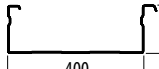
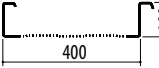


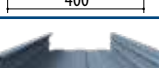


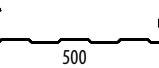



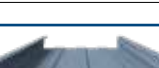
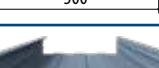


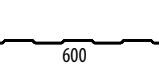
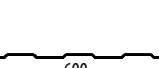


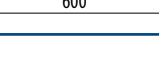
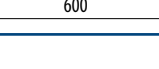
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With sustainable benefit
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Basic data at a glance

MONTAWALL®

LINER TRAYS IN STEEL

Load-bearing liner trays, on request with integrated sealing tape and/or acoustic perforation $\varnothing = 4 \text{ mm}$ / Tg 7 mm

PROFILE	THICKNESS mm	Steel kg/m ²	THICKNESS mm			PROFILE	THICKNESS mm	Steel kg/m ²
			0.75	0.88	1.00			
● MK 80/400		Steel kg/m ²	●	●	●	● MK 120/400		Steel kg/m ²
			11.19	12.72	15.90			
● MK 80/400 A						● MK 120/400 A		
								
● MK 80/500		Steel kg/m ²	●	●	●	● MK 120/500		Steel kg/m ²
			10.56	12.00	15.00			
● MK 80/500 A						● MK 120/500 A		
								
● MK 80/600		Steel kg/m ²	●	●		● MK 120/600		Steel kg/m ²
			9.97	11.33				
● MK 80/600 A		Steel kg/m ²				● MK 120/600 A		
								
● MK 100/400		Steel kg/m ²	●	●	●	● MK 140/400		Steel kg/m ²
			11.90	13.52	16.90			
● MK 100/400 A						● MK 140/400 A		
								
● MK 100/500		Steel kg/m ²	●	●		● MK 140/500		Steel kg/m ²
			11.12	12.64				
● MK 100/500 A						● MK 140/500 A		
								
● MK 100/600		Steel kg/m ²	●	●		● MK 140/600		Steel kg/m ²
			10.44	11.87				
● MK 100/600 A		Steel kg/m ²				● MK 140/600 A		
								

MONTAWALL® / ACCESSORIES

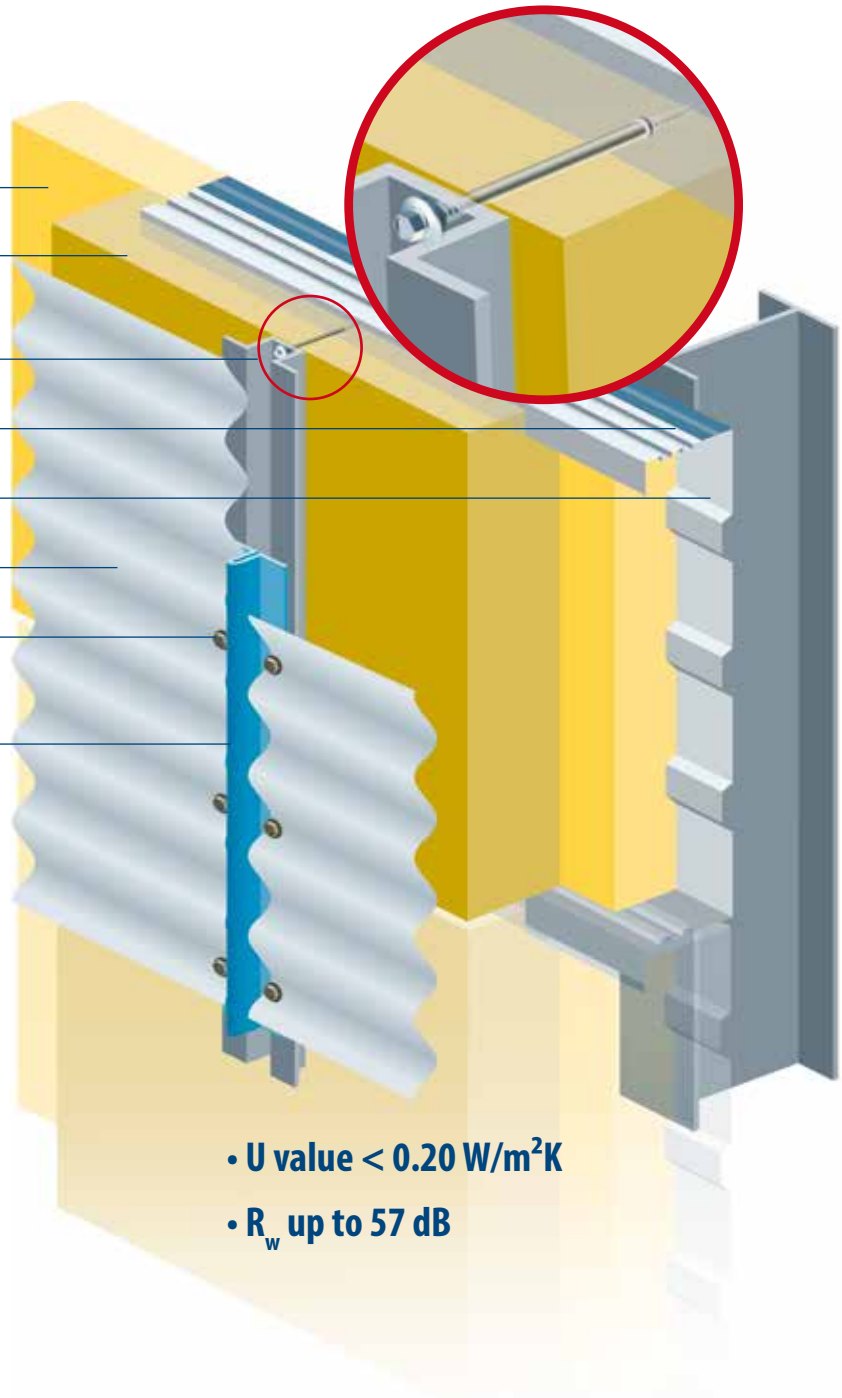
LINER TRAYS IN STEEL

Load-bearing liner trays, on request with integrated sealing tape and/or acoustic perforation $\varnothing = 4 \text{ mm}$ / Tg 7 mm

PROFILE	THICKNESS mm				PROFILE	THICKNESS mm				
	0.75	0.88	1.00	1.25		0.75	0.88	1.00	1.25	
<ul style="list-style-type: none"> ● MK 145/400 ● MK 145/400 A 					<ul style="list-style-type: none"> ● MK 180/400 ● MK 180/400 A 					
<ul style="list-style-type: none"> ● MK 145/500 ● MK 145/500 A 					<ul style="list-style-type: none"> ● MK 180/500 ● MK 180/500 A 					
<ul style="list-style-type: none"> ● MK 145/600 ● MK 145/600 A 					<ul style="list-style-type: none"> ● MK 180/600 ● MK 180/600 A 					
<ul style="list-style-type: none"> ● MK 160/400 ● MK 160/400 A 					<ul style="list-style-type: none"> ● NOTE <p>It must be observed that there is a difference between the profiling of the 400 mm high cassette and the 500 and 600 mm cassettes. It is therefore recommended to refrain from directly combining the 400 mm cassettes with other types.</p>					
<ul style="list-style-type: none"> ● MK 160/500 ● MK 160/500 A 						<ul style="list-style-type: none"> ● GYSO SEALING TAPE G-410 				
<ul style="list-style-type: none"> ● MK 160/600 ● MK 160/600 A 						<p>Elastic PVC foam tape with closed pores, 19 x 3 mm, self-adhesive, easy to screw through, grey. Suitable for all MONTAWALL® liner trays. 30 m rolls.</p> <p>A variant can be delivered with sealing tape already integrated. Please mention when ordering.</p>				

MONTAPLUS®

- Heat and sound insulation
ISOCONFORT 032 PR
- CLADISOL 032
- Distance self drilling
fastener SFS intec
- Montana sealing strip
- MONTAWALL® liner tray
- SWISS PANEL® façade profiles
- Stainless steel
self drilling fastener screw
- Pilaster strip



THE KNOW-HOW OF THREE SPECIALISTS IN ONE MODULE!



- U value <math>< 0.20 \text{ W/m}^2\text{K}</math>
- R_w up to 57 dB

In cooperation with market-leading business partners, Montana developed and optimized approved liner trays constructions. The façade system MONTAPLUS® was generated and meets high requirements. Heat insulation in summer and winter helps to achieve a higher level of comfort. Rising energy costs ensure that structures with MONTAPLUS® system pro-

vide high maintenance of financial value and future suitability. Therefore, this liner tray system emphasizes his sustainable benefit to other constructions.

In addition, this façade system also offer other advantages:

MORE COMFORT

Rear-ventilated façades with permeable heat insulation ensure a balanced moisture level and high thermal comfort. Also available in perforated execution with better acoustic values.

SIMPLE MOUNTING

on new buildings and redevelopments.

HIGH CREATIVE FREEDOM

with a wide range of steel or aluminium façade profiles in all MONTACOLOR® colours.

ENVIRONMENTALLY FRIENDLY

through lower energy consumption. The components can be recycled.

swissporLAMBDA Cassette

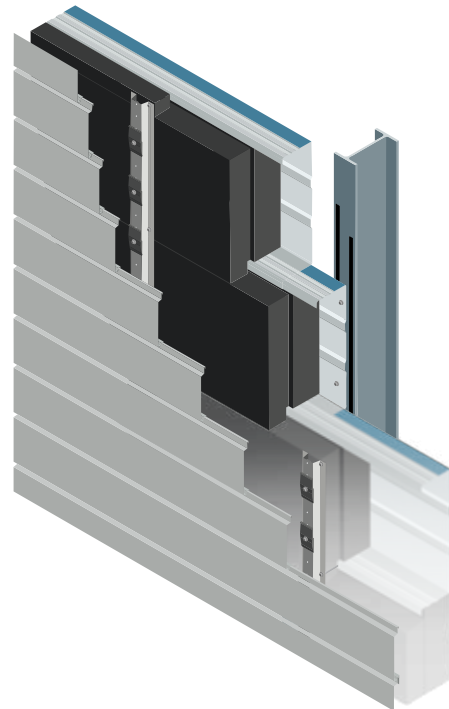
THE INSULATING MATERIAL WITH A HIGH ENERGY PERFORMANCE!

Together with its partners swisspor AG and SFS, Montana Building Systems Ltd. has developed an innovative system structure for thermally insulated metal cassettes. The swissporLAMBDA Cassette system is available in the usual retail formats. The insulating panels are tailored precisely to these dimensions and fit exactly into the MONTAWALL® liner trays, so that thermal bridges are reduced to a minimum.

The swissporLAMBDA Cassette insulating material is manufactured from expanded polystyrene rigid foam is fully recyclable.

These innovative system solutions offer the processor many noteworthy advantages, including high insulating performance, short installation times and high comfort. On account of the compression-proof insulating material, the sub-construction needs no vertical bracing for the fastening of the outer shell up to a weight of 20 kg per fastening point. Thanks to the particularly low thermal conductivity of 0.029 W/(mK), a very slender wall structure can be realised with this system.

Detailed information and an extensive installation guideline can be found in the swisspor AG documents. You are also welcome to contact our sales team.



- U-value up to 0.15 W/m²K possible
- Easy and efficient installation

SERVICE

BASIC DATA AT A GLANCE

STANDARD MATERIAL

Ex warehouse, see our delivery programme in the MONTACOLOR® colour card.

DELIVERY LENGTHS

Standard 2 to 16 m, up to 18 m on request.

TOLERANCES

According to EPAQ quality guidelines.



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



Technical information
In the leaflet MONTAWALL® Technology 3.20.
For downloading.



CAD files
For downloading as dwg or dxf.
www.montana-ag.ch > Products > Liner trays



Dimensioning tables
In the leaflet MONTAWALL® Statics 3.30. For downloading.



Dimensioning software
Request program.
www.montana-ag.ch > Services > Dimensioning software



Perforation/Acoustics
All information in the leaflet Acoustics 7.9.
For downloading.



Colour chart
MONTACOLOR® Collection with full summary. For downloading



Tender texts (CH)
Prepared texts.
www.montana-ag.ch > Services > Tendering texts

www.montana-ag.ch

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