



STRUCTURE. LIGHTNESS. MONTASTEP®.



REBATED FAÇADE PROFILES WITH HIDDEN FASTENING SYSTEM
MADE OF STEEL AND ALUMINIUM

REBATED FAÇADE WITH HIDDEN FASTENING SYSTEM

MONTASTEP® rebated façade profiles are suitable for rear-ventilated façades on new buildings, as well as renovation projects for commercial, administration and school buildings, etc.

The roll-formed MONTASTEP® profile MS 25/250 is designed with the same tongue and groove fastening technique as the MONTALINE® cladding profiles. These two profiles can therefore be used in combination with each other. MONTASTEP® rebated façade profiles are made of steel or aluminium.

BEHA Holding GmbH, Glöttertal (D)



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MONTASTEP®

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Connect GmbH, Freiburg (D)

Alwa Print AG, Dintikon (CH)

MONTASTEP®

REBATED FAÇADE PROFILES MADE OF STEEL AND ALUMINIUM
with hidden fastening system, smooth surface

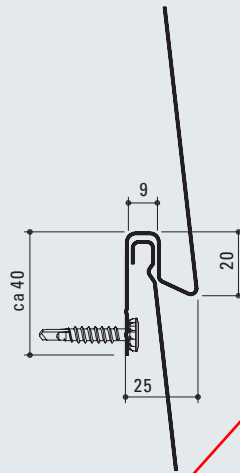
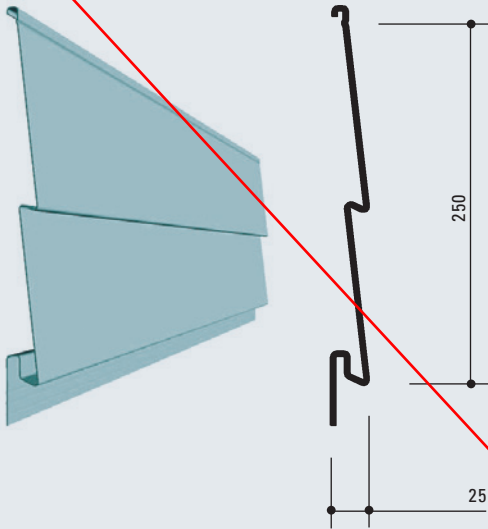
PROFILE

THICKNESS mm

- MS 25/250
ROLL-FORMED PRODUCTION METHOD
Fastening compatible with MONTALINE® profiles

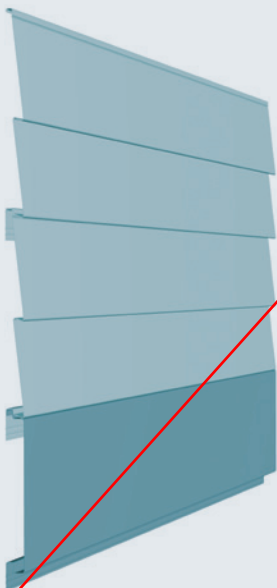
no longer available

	0.70	0.80	1.00
STEEL kg/m ²	8.33	9.52	11.90
ALUMINIUM kg/m ²	2.86	3.27	4.09



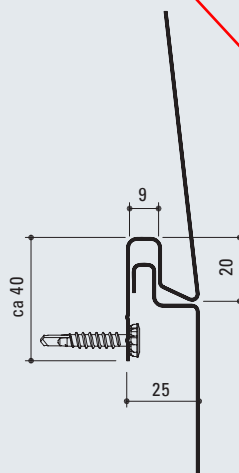
- MONTASTEP® AND MONTALINE®
PROFILES IN COMBINATION WITH EACH OTHER

MONTASTEP®/MONTALINE®
Fastening technique



MONTASTEP®
MS 25/250

MONTALINE®
ML G profiles without joints
also possible with joint with ML F



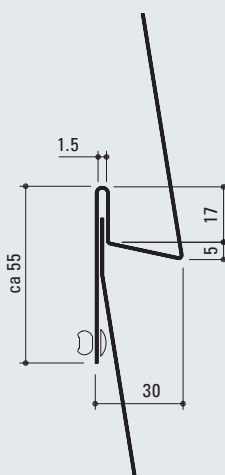
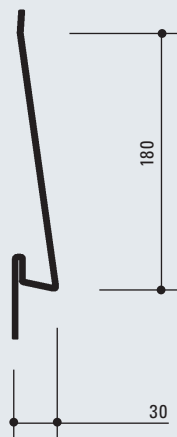
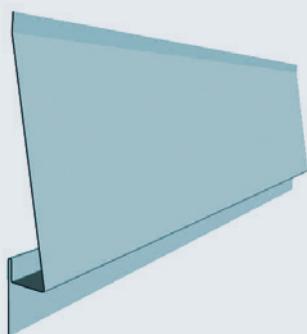
REBATED FAÇADE PROFILES MADE OF STEEL AND ALUMINIUM

with hidden fastening system, smooth surface

PROFILE

● MS 30/180 BENDED

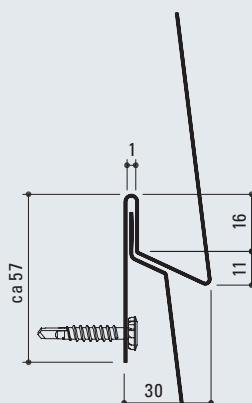
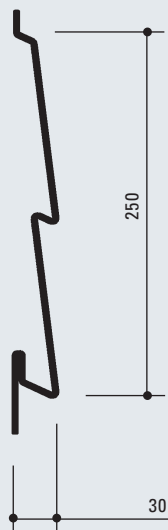
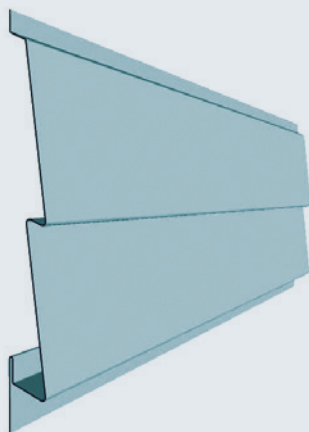
MONTASTEP® MS 30/180 fastening technique



	THICKNESS mm		
	0.70	0.80	1.00
STEEL kg/m ²	● 9.65	● 11.02	● 13.78
ALUMINIUM kg/m ²		● 3.79	● 4.74

● MS 30/250 BENDED

MONTASTEP® MS 30/250 fastening technique



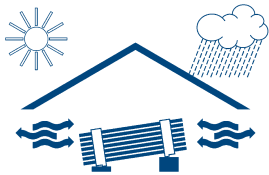
STEEL kg/m ²	● 9.18	● 10.50	● 13.12
ALUMINIUM kg/m ²	● 3.16	● 3.61	● 4.51

FITTING RECOMMENDATIONS

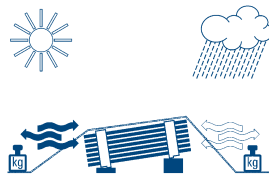
CHECKING BEFORE COMMENCEMENT OF FITTING

Before laying the component parts, the quality and condition of the substructure must be checked for evenness, squareness, required support widths, etc. If there are any faults or defects that complicate fitting or make it impossible, written notification must be submitted to the client with a request for rectification of such faults or defects.

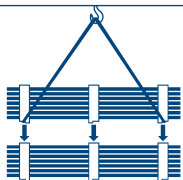
STORAGE



A suitable area must be available for storing the component parts. The packages must be stored in a dry place on site, sloping slightly lengthways so that rain water can run off.



Covering with ventilated natural tarpaulins (not plastic sheeting) is advisable if not using the product immediately.



A maximum of two packages only may be stacked on top of each other, ensuring that the transport timber blocks are lying on top of each other.

The influence of moisture without an adequate supply of air will be apparent within days on galvanised components «white rust». Check whether the aluminium feels cold! If this is the case, store the aluminium component parts in a cool, closed room without any draught so that the aluminium can warm up slowly.

If this is not done, black stains will occur on the aluminium! Corrosion of the metallic layer can even occur on materials with an additional plastic coating if stored incorrectly over a longer period of time.

Unloading, handling and movement on site should always be carried out using lifting straps so as to protect the coatings.



Short packages up to 6 m can also be raised and lowered using a forklift truck in a due and proper manner and with protected forks (e.g. rubberised rests).

CARRYING



The components should be lifted from the stack carefully so as to protect the coating. They should be carried or lifted on end to avoid any bending of the components.

FOR NEW BUILDINGS AND RENOVATION PROJECTS

MONTASTEP® rebated façade profiles are compatible with MONTALINE® cladding profiles.

PROFILE INFORMATION

The roll-formed MONTASTEP® rebated façade profile MS 25/250 is designed with the same tongue and groove fastening technology as the MONTALINE® cladding profiles. The two profiles can therefore be used in combination with each other.

MONTASTEP® profiles MS 30/180 and MS 30/250 are produced in a beveled design. The fastening technique is also designed in the form of a slot-in profile with concealed fasteners.

Combinations with other profiles are possible for these profile types only with additional, suitable machined parts.

MONTASTEP® rebated façade profiles are always supplied with removable colour protection film. A microlining finish is not feasible for these profiles. In the case of metallic colours, we would like to point out that these profiles can have a different colour shade effect on façades according to the reflection of light.

AREA OF APPLICATION

MONTASTEP® rebated façade profiles are suitable for rear-ventilated façades on new and renovated buildings on metal coffers or masonry.

PLANNING AND FITTING INFORMATION

MONTASTEP® rebated façade profiles are conventionally fitted to façades horizontally. However, the tried-and-tested fastening technology ensures that these rebated façade profiles can also be fitted vertically. The maximum span widths can be seen in the calculation tables.

In terms of roller engineering, these profiles can be produced in practically unlimited lengths. The length of the profile depends on the expansion of the material and handling when fitting (see our recommendations).

MONTASTEP® rebated façade profiles can only be overlapped at the sides, via tongue and groove. When planning, appropriate end cover/soffit plates or pilaster strips therefore have to be provided in the form of gladiate or square profiles in the longitudinal direction (see examples in our design details).

The direction of fitting must also be taken into consideration.

Horizontal profiles are fitted exclusively from top to bottom. An absolutely even metal substructure is crucial for perfect fitting.

Even grid spacing is aligned by means of a plumb line or suitable spacing device. The colour protection film is to be removed when fitting.

FASTENING

Fastening is carried out in accordance with the latest DIN, SIA and SZSB7 standards, as well as the general IFBS guidelines. Wind suction and compressive forces are to be taken into account in this regard when dimensioning the fasteners, depending on the kinetic pressure, as well as the location and shape of the building.

The wall-cladding profiles are screwed in place using approved, standard stainless fasteners with washers and seals. Self-tapping or threaded screws are available for this, with the correct length selected according to the substructure.

The stripping values according to the details given by the manufacturer are to be taken into account in the calculation.

The substructure must be perfectly level in each case.

A metal substructure must be selected for MONTASTEP® rebated façade profiles.

SERVICE

SERVICE COMPONENTS FOR MONTASTEP®

STANDARD MATERIALS

ex works (see our product range on the MONTACOLOR® colour card)

When choosing metallic colours, we would point out that these profiles can have a different colour shade effect on facades according to the reflection of light.

SPECIAL MATERIAL

Minimum order quantities:

Sheet steel: 7 000 kg

Aluminium: 2 000 kg

LENGTH RECOMMENDATION

Steel: 4.0 m – max. 6.0 m

Aluminium: 4.0 m – max. 5.0 m

TOLERANCES

Lengths up to 4 m: ± 2 mm

Lengths up to 6 m: ± 3 mm

Width: ± 1 % of the overall width

Height: ± 5 % of the height of the profile



Homepage

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



CAD files

You can download these from www.montana-ag.ch > Products > CAD



Load tables

You can download these as individual sheets from www.montana-ag.ch > Products > Load tables or request them by telephone.



Assembly recommendations

You can download these from www.montana-ag.ch > Products > Cladding profiles > MONTASTEP > Assembly recommendations or request them by telephone.



Request our colour card

Send an email to info@montana-ag.ch or phone +41 0 56 619 85 85 or write to Montana Bausysteme AG, Durisolstr. 11, CH-5612 Villmergen



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Every construction project is a challenge. A well-rehearsed, highly competent Montana team ensures the smooth progress of consultation, planning and production, right up to punctual delivery on site.



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PERFORATION Stade de la Maladière, Neuenburg (CH)



MONTANATHERM® Neomat AG, Beromünster (CH)



MONTAWALL® Stade de Suisse, Bern (CH)



MONTATWIN® Kaufland, Dingolfing (D)



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MONTALINE® Lehner Versand AG, Schenkon (CH)

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