METAL BLOCK

Data Sheet

MAC METAL ARCHITECTURAL

Prefinished Steel Wall Profile Without Visible Screws

DESCRIPTION

Profile designed for wall installation and a vertical, horizontal or a diagonal installation. Unique in design, the Metal Block is the perfect solution for those wishing to add their own architectural touch to their project. Available in several formats, it will be your ally, giving free rein to your creativity.

WARRANTY

Since we use a superior grade of steel and an unparalleled painting process that ensures longevity, MAC offers its customers a 40-year Quiet Guarantee.

INSTALLATION WARRANTY

In the event that a problem occurs during the installation of the profiles, it is important to report the situation immediately to your supplier before proceeding with the rest of the installation. For Metal Block profiles, the supplier must be notified prior to the installation of 500 sq. ft. Beyond 500 sq. ft. the installer is responsible for the installation.

PHYSICAL DATA OF THE PROFILE

Dimensions	
Standard length	Assorted according to plans and specifications up to 60 ft (18.29 m)
Height (covered)	12 in (305 mm)
Thickness (width)	1 in (25.4 mm)
Wight (per panel)	24 g | 1.32 lb/ft² (0.6 kg/ft²) 22 g | 1.65 lb/ft² (0.75 kg/ft²)
Screw holes (openings)	0.75 x 0.1875 in (19 mm x 4.8 mm)
Screw holes intervals	1.5 in (39.1 mm) OR 2.25 in (57.2 mm)
Transverse groove	24 in (609.6 mm) standard or between 12 in (304.8 mm) and 42 in (1066.8 mm)
Vented soffit option	In square inch of opening per linear foot of profile
Ventilation	4.5940
Available gauge | Galvanized Z275 (G90) 33 SS (230) grade steel as per ASTM A653/A653M	
Gauge	24 g | 22 g (on demand)
Packaging details	
Single package size	26 1/2 in x 31 7/8 (max) x custom length | 50 panels
Installation direction	
Installation orientation	horizontal | vertical | diagonal

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TESTS

WIND RESISTANCE

Resistance to overload due to uniformly distributed static pressure-related winds, according to ASTM Standard D5206-06a.

Resistance type	Pressure
Breaking pressure of a component Failure mode - nailing tape (16 in c/c)	3830 Pa (80 psf)
Breaking pressure of a component Failure mode - nailing tape (24 in c/c)	3112 Pa (65 psf)

FIRE RESISTANCE

- Tested to ASTM-E2768 for use in non-combustible construction in Wildland Urbann Interfaces in California (required for WUI listing).
- Tested as per CAN/ULC-S135 for use in non-combustible constructions.
- Tested as per ASTM E84 for non-combustible construction (Class A category).
- Classified 0 Flammability Hazard, according to the NFPA Rating Explanation Guide.

TYPE OF TEST	DESCRIPTION	STATUS
CAN/ULC-S135	Fire resistance (CAN)	Compliant
ASTM E84	Fire resistance (USA)	Class A
W.U.I.	Wildland Urban Interface accreditation	Inscription 8140-2358-0500
ASTM D5206-06A	Maximum sustained pressure	3830.4 Pa (80 psf) 16 in c/c 3112.2 Pa (65 psf) 24 in c/c 2453.9Pa (51.3 psf) 36 in c/c 2384.3Pa (49.8 psf) 48 in c/c
ASTM E330	Plank deflection under wind pressure (Tested for these variables, the results are available upon request)	16 in c/c | + 3100 Pa - 3100 Pa 24 in c/c | + 3000 Pa - 3100 Pa
ASTM E283	Air leakage of the wall assembly	Compliant
FBC	Florida Building Code accreditation	In progress
TDI	Texas Department of Insurance accreditation	In progress
Miami Dade, ASTM E1886, E1996, TAS 202 & TAS 203	ZHLA.63 Hurricane Resistance accreditation	Non-tested

TEXTURAL III & IV PAINT SYSTEM

We apply TEXTURAL paint technology to all of our products to ensure their superior quality. Each of the colors from the wide range we offer create unparalleled depths of hue and texture, perfectly reproducing noble materials such as oxidized copper, zinc, and wood, while eliminating unwanted glare from the sun through clean matte surface finishes.

PRINCIPAL CHARACTERISTICS

- No screws and no visible joints
- No joints along the entire length of the panels
- Easy installation
- S clip (junction clip) available for jointing
- Reinforcement clip for J trim insertion
- Non-combustible
- Possibility to change an individual panel in case of damage
- Maintenance-free

ENVIRONMENT

Placing the environment at the heart of our priorities, all of our products are made from 86% recycled material and are 100% recyclable at the end of their life, in addition to contributing to the following LEED points:

- Recycled steel content (LEED – Credit 4.1 & Credit 4.2)
  Valid for all coatings (roofs and walls)

- Reduction of Heat Islands (LEED – Credit 7.2)
  Valid for roof coverings with slopes > 2/12 depending on the tance index (ISR or SRI greater than 29) corresponding to the chosen color (roofs only)

ASSEMBLY

- Comply with the manufacturer's requirements, recommendations, and written specifications, including any available technical bulletins such as the installation guide, installation videos available on the manufacturer's web page, and instructions in the web page and instructions appearing in the product catalog.

- Panels can be joined along their lengths by an S clip (junction clip) at the notched ends of the siding panels.

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INSTALLATION SURFACES

- On plywood (min. thickness 5/8 in)
- On wood furring (16 in [406 mm] center/center)
- On metal furring (16 in [406 mm] center/center)
- It is important to leave a 1/8-inch (3.175 mm) space between two sheets for material expansion.

Note: All furring strips must be level horizontally and vertically to permit installation according to accepted practice and to obtain a good final installation result.

FIXATION

- M10G starter strip must be installed as an invisible clip at the bottom of the walls behind the Metal Block profile. It must be carefully leveled, as it will determine the straightness of the straightness of the work, whether or not it is installed in combination with drip molding.
- Before starting the installation, refer to the videos and installation guides to make sure you have all the tools and accessories you need to start the installation.
- A methodical verification of the work must be done every 3 or 4 sheets in order to detect possible anomalies.
- Continuous installation of drip mouldings, starter mouldings, inset/outset corner pieces corner pieces, borders, soffits, mouldings adjacent to doors and windows by the manufacturer.
- Install furring beforehand to provide a continuous support for the installation of the siding ensuring a straight and level installation.
- Furring at 16 in (406 mm) to 24 in (610 mm) intervals.
- For high-rise buildings or buildings that are highly exposed to winds, additional caulking of the panels is recommended inside the female part of their staple in 1/2 x 1-inch strokes at 24-inch intervals using the sealant recommended by MAC and according to the wind resistance requirements set by the architect and the tests carried out by MAC Metal.
- Metal Block panels fit together, one inside the other, so as not to hinder the thermal contraction and expansion movements of the facings. Panels are attached to the girts through a longitudinal flap located on the female side of the clip.
- When there are several floors to be covered, it is important to put a horizontal expansion moulding on all floors if the structure is made of wood, or at every 30 feet if the structure is made of steel.
- For horizontal installation of the panels, installation goes from bottom to top. When panels are laid horizontally, the ends of the panels must be reinforced with a 1/2 or 1-inch (13 or 24.5 mm) fold at a 90-degree angle minimum using a MAC metal bending hand tool and by pre-cutting the excess parts of the clips, or by installing a clip of MAC reinforcement planned for this purpose.
- For vertical or diagonal installation, the lower ends of the panels must be reinforced with a 1-inch (25 mm) fold at a 90-degree angle by pre-cutting the excess parts of the clips. The upper ends of the panels must also be reinforced with a 1/2 or 1-inch (13 or 24.5 mm) fold at a 90-degree angle minimum. If the panels are to be installed horizontally, the installation starts from the bottom upwards.
- Installation of the MAC siding products on ZIP R-sheathing panels and other dual com- posite panels with a softer material than wood is not recommended. This type of panel doesn't offer a good rigid mounting surface for the MAC products and will allow for mo- vement and deformation under varying weather and sun exposure transferring into oil canning.

FASTENING

MAC is proud to offer you a screw system adapted to its profiles. The screws used to screw our products must meet the STM B-117 2000h standard. The use of MAC screws designed for our profiles is strongly recommended.

Use the MAC High-End Century K-LATCH Screw or MAC Self-Drilling K-LATCH Screw (1 1/8 or 2 1/2 in) depending on the type of furring or surface to be fastened.

The screws should be set with moderate contact on the clip part of the panel to avoid impeding the expansion of the metal. The screws must not exert any upward or downward pressure to avoid deforming the siding or opening the panels at the joints. Remove the protective film from the siding prior to installation to facilitate a good visual inspection of the quality of the installation and in order to make appropriate corrections as installation progresses.

A058.250
K-LATCH High-End
Century Screw
1.25 in

A053.250
K-LATCH
Self-Drilling Screw
1.25 in

ACCESSORIES & MOLDINGS

With an eye for detail, MAC offers a series of accessories compatible with its profiles to ensure a perfect finish. Discover our moldings, arches, soffits, vents, screws, and snow gates offered in our unique color series.

All standard moldings such as transition trim, inside/outside corners, and drip moldings are available from the MAC manufacturer or distributors in 10 ft (3048 mm) lengths. Please refer to the website for the complete molding and flashing guide. Custom moldings are available in 10 ft (3048 mm) lengths upon request. They can be manufactured by MAC or by a forming company from flat rolls supplied by MAC.

RESOURCES

To help you in the realization of your project, we have made all of the CAD, REVIT, and DWG drawings, as well as the videos and technical guides of our profiles, available for you to use on website. Find these resources in the PRO Space of each.