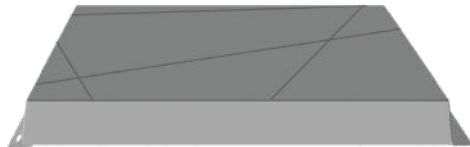
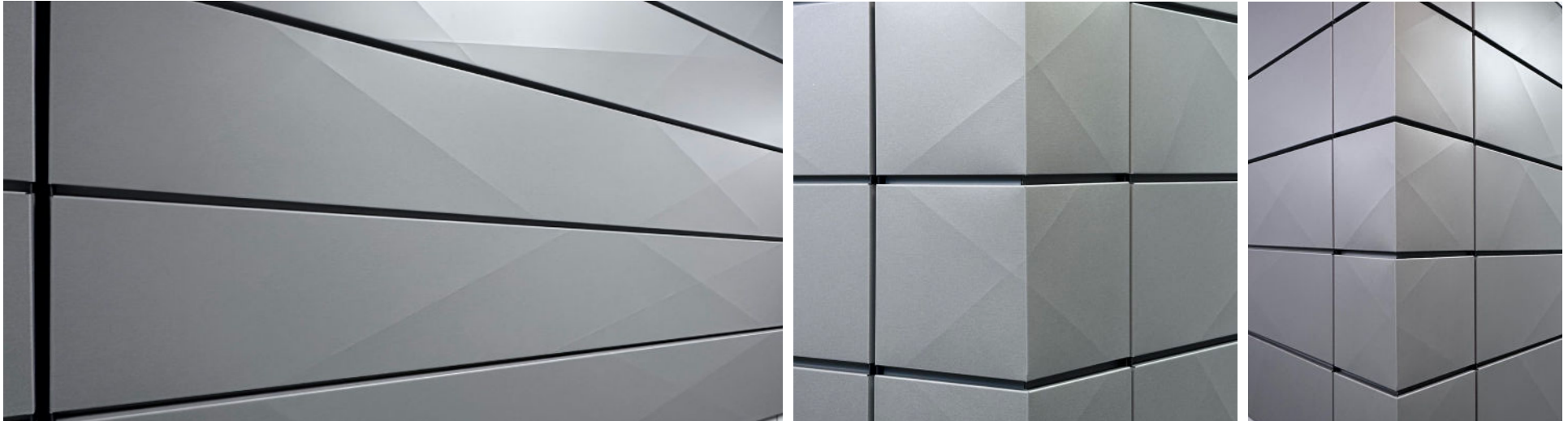


Polymac Axes

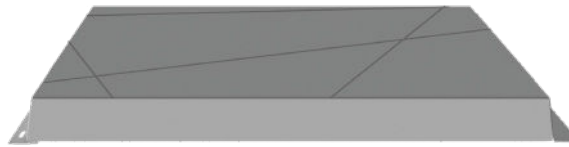
Data Sheet



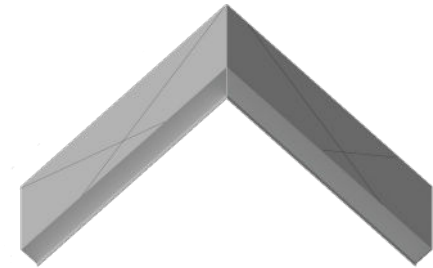
Refinished Steel Wall Profile Without Visible Screws



Panel 12 x 48 x 1 in
Panel 12 x 72 x 1 in



Panel 20 x 48 x 1 in
Panel 20 x 72 x 1 in



Corner panel 12 x 12 x 12 x 1 in
Corner panel 12 x 12 x 20 x 1 in



DESCRIPTION

Designed for wall applications and horizontal or vertical installation, Polymac Axes architectural panels redefine the expression of steel cladding through embossed patterns that create depth, texture, and movement. Combining contemporary design, strength, and durability, they offer a versatile solution for distinctive architectural façades.

REINFORCING BRACKET

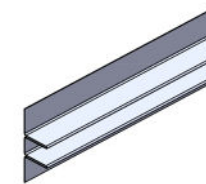
Please note that each panel comes with a reinforcing bracket taped in the middle of the inner surface along its length, which greatly improves panel resistance to oilcanning.

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 Polymac Axes 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.



U-SHAPED MOLDING

Used to secure panels during linear installation



OFFSET JUNCTION MOLDING
12 in & 20 in

Used to secure panels during interlocking installation

Polymac Axes

Data Sheet



Prefinished Steel Wall Profile Without Visible Screws



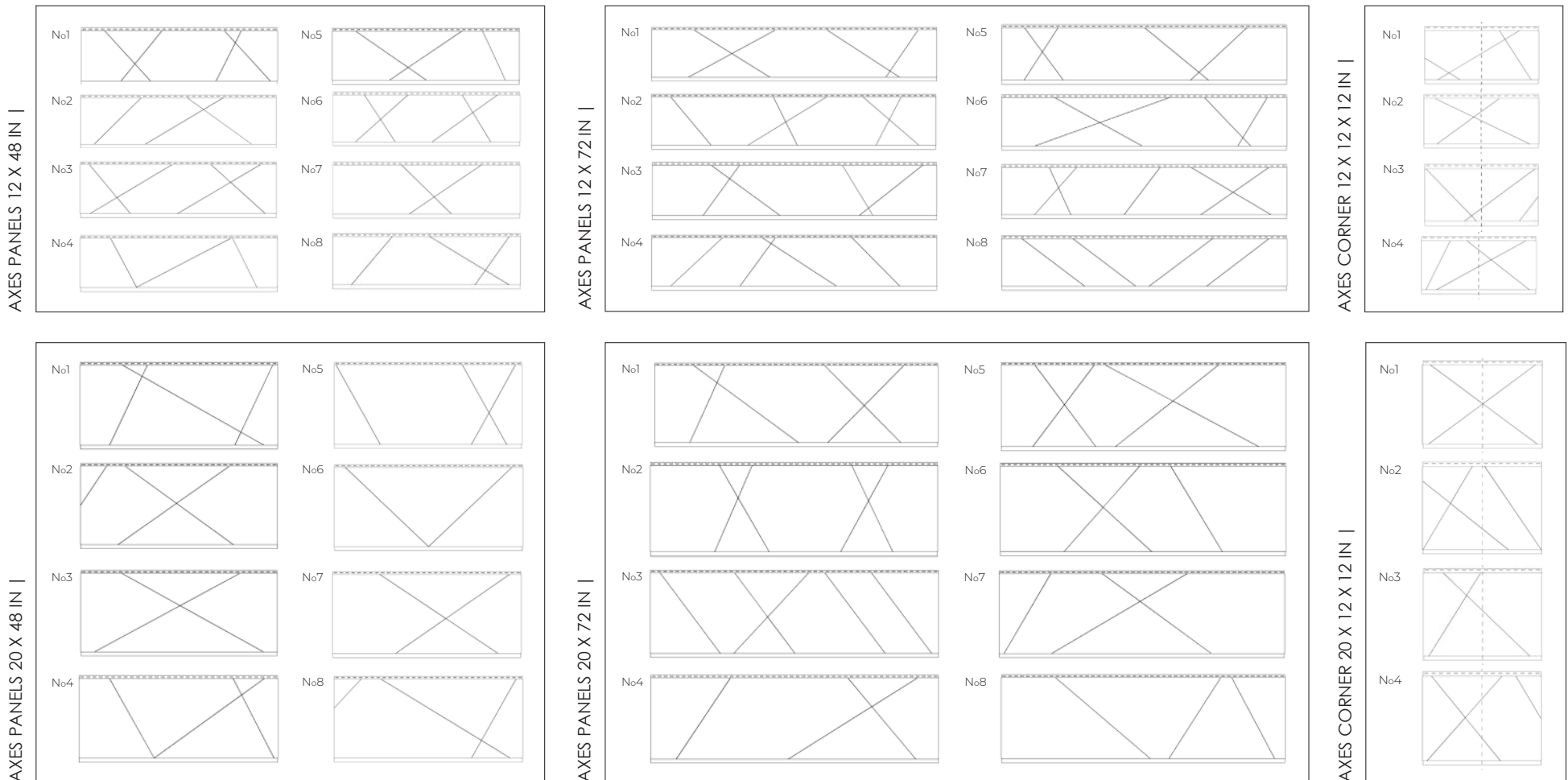
Dimensions	12 in x 48 in	12 in x 72 in	20 in x 48 in	20 in x 72 in	Corner 12 in	Corner 20 in
Standard length	48 in (1219.2 mm)	72 in (1828.8 mm)	48 in (1219.2 mm)	72 in (1828.8 mm)	12 in (304.8 mm)	12 in (304.8 mm)
Height (covered)	12 in (304.8 mm)	12 in (304.8 mm)	20 in (508 mm)	20 in (508 mm)	12 in (304.8 mm)	20 in (508 mm)
Thickness (width)	1 in (25.4 mm)	1 in (25.4 mm)	1 in (25.4 mm)	1 in (25.4 mm)	1 in (25.4 mm)	1 in (25.4 mm)
Weight (per panel)	6.81 lbs (3.09 kg) - 22 g	10.12 lbs (4.59 kg) - 22 g	8.26 lbs (3.72 kg) - 22 g	15.22 lbs (6.90 kg) - 22 g	3.48 lbs (1.58 kg) - 22 g	5.27 lbs (2.39 kg) - 22 g
Screw holes (openings)	0.75 x 0.1875 in (19 mm x 4.8 mm)	0.75 x 0.1875 in (19 mm x 4.8 mm)	0.75 x 0.1875 in (19 mm x 4.8 mm)	0.75 x 0.1875 in (19 mm x 4.8 mm)	0.75 x 0.1875 in (19 mm x 4.8 mm)	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)	1.5 in (39.1 mm) OR 2.25 in (57.2 mm)	1.5 in (39.1 mm) OR 2.25 in (57.2 mm)	1.5 in (39.1 mm) OR 2.25 in (57.2 mm)	1.5 in (39.1 mm) OR 2.25 in (57.2 mm)	1.5 in (39.1 mm) OR 2.25 in (57.2 mm)
Available gauge Galvanized Z275 (G90) 33 SS (230) grade steel as per ASTM A653/A653M						
Gauge	22 g	22 g	22 g	22 g	22 g	22 g
Packaging details	12 in x 48 in	12 in x 72 in	20 in x 48 in	20 in x 72 in	Corner 12 in	Corner 20 in
Box contains	8 panels	8 panels	8 panels	8 panels	4 panels	4 panels
Total surface area	32 sq. ft. (3 sq. m.)	48 sq. ft. (4.46 sq. m.)	53.33 sq. ft. (4.96 sq. m.)	80 sq. ft. (7.44 sq. m.)	8 sq. ft. (0.75 sq. m.)	13.33 sq. ft. (1.25 sq. m.)
Box dimensions	13.5 x 48 x 8.75 in (330.2 x 1219.2 x 222.25 mm)	13.5 x 72 x 8.75 in (330.2 x 1828.8 x 222.25 mm)	21 x 48 x 8.75 in (533.4 x 1219.2 x 222.25 mm)	21 x 72 x 8.75 in (533.4 x 1828.8 x 222.25 mm)	14 x 14.75 x 17.25 in	17.25 x 14.75 x 21.75 in
Box weight	54.51 lbs (24.72 kg) - 22 g	80.97 lbs (36.72 kg) - 22 g	82.08 lbs (37.23 kg) - 22 g	121.77 lbs (55.22 kg) - 22 g	3.58 lbs (1.63 kg) - 22 g	5.37 lbs (2.44 kg) - 22 g
Package dimensions	47 x 25.5 x 51.25 in - 12 Boxes	47 x 25.5 x 75.5 in - 12 Boxes	49 x 25.5 x 51.25 in - 8 Boxes	49 x 25.5 x 75.5 in - 8 Boxes	49 x 38 x 67 in - 24 Boxes	49 x 55 x 67 in - 12 Boxes
* Wooden rack packaging for custom orders. Dimensions may vary. Premixed wood grain panel shades in every box for the WOOD COLLECTION.						
Installation direction						
Installation orientation	horizontal vertical	horizontal vertical	horizontal vertical	horizontal vertical	horizontal	horizontal

Each panel format is available in 8 exclusive patterns, while corner panels are offered in 4 different pattern designs, providing a wide range of possibilities to create dynamic, customized façades.

Depending on the design intent, you may:

- select specific patterns to faithfully reproduce an architectural concept or visual;
- or choose mixed boxes including all 8 panel patterns or 4 corner panel patterns, allowing for a more random installation with an organic, rhythmic finish.

PATTERN AVAILABLE BY PANEL SIZE



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 - Rupture of wooden stud (16 in c/c) (22 g, with 24 in c/c visible screws)	5665.8 Pa (118.3 psf)
Breaking pressure of a component Failure mode - Rupture of wooden stud (24 in c/c) (22 g, with 24 in c/c visible screws)	6384.0 Pa (133.3 psf)

FIRE RESISTANCE

- Tested to ASTM-E2768 for use in non-combustible construction in Wildland Urban 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 WITHOUT FOAM
CAN/ULC-S135	Fire resistance (CAN)	Compliant
ASTM E84	Fire resistance (USA)	Compliant
W.U.I.	Wildland Urban Interface accreditation	Inscription 8140-2358-0500
ASTM D5206-06A	Maximum sustained pressure	With 24 in c/c visible screws (22 g) - 6384.0 Pa (133.3 psf) - 16 in c/c 5665.8 Pa (118.3 psf) - 24 in c/c
ASTM E330	Plank deflection under wind pressure (Tested for these variables, the results are available upon request)	With visible screws (22 g) 16 in c/c 24 in c/c
ASTM E283	Air leakage of the wall assembly	Compliant
FBC	Florida Building Code accreditation	EC-158
TDI	Texas Department of Insurance accreditation	Compliant
Miami Dade, ASTM E1886, E1996, TAS 202 & TAS 203	ZHLA.63 Hurricane Resistance accreditation	In progress

TEXTURAL III & IV PAINT SYSTEM

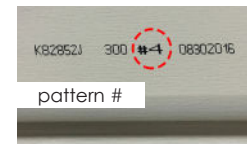
We apply TEXTURAL paint technology to all of our products to ensure their superior quality. Each of the colors from the wide range we offer create unparalleled depths of hue and texture, perfectly reproducing noble materials such as oxidized copper, zinc, and wood, while eliminating unwanted glare from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

IMPORTANT | NUMBERED PATTERN

Panels are identified on both the front and back by a bold numbered sequence preceded by the # symbol:

- from 1 to 8 for standard panels
- from 1 to 4 for corner panels

Special attention should be given to this identification during installation when following a specific layout or design intent. Otherwise, panels may be installed randomly to create a more organic and dynamic visual effect.



ENVIRONMENT | SPECIFIC EDP, HPD AND EDS

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.

We are committed to offering sustainable, long-lasting products made exclusively from premium North American steel. Our materials are designed to support responsible building practices and can contribute to the achievement of LEED certification. To learn more, we invite you to consult our Environmental Product Declarations (EPD) and Health Product Declarations (HPD) available on our Environmental page.



INSTALLATION SURFACES

- On wood furring (1 in x 3 in)
- On metal furring (Z bar) (18 gauge or 20 gauge)

Note: All furring must be installed at a 45-degree angle and be level horizontally and vertically to allow installation according to accepted practices and to obtain a good installation result.

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 on the web page and in the product catalog.

FIXATION

- Starter strip M10G must be installed as an invisible clip at the bottom of the walls behind the Polymac Axes panels. It must be carefully leveled as it will determine the straightness of the structure regardless of whether it is installed in combination with a 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 to detect possible anomalies.
- Continuous installation of drip moldings, starter moldings, inset/outset corner pieces, corner pieces, borders, soffits, moldings adjacent to doors and windows according to the manufacturer's recommendations.
- Install the furring beforehand, and at a 45-degree angle, to provide continuous support for the installation of the siding. Screw the furring at 12-in (304.8-mm) center-to-center intervals, and ensure that making sure that the following conditions are met a rectilinear laying of level.
- Polymac Axes panels are nested in each other so as not to interfere with the natural thermal movements (contraction and expansion) undergone by the facings. The panels are fixed to the girts through their longitudinal bib which is located at the bottom of the wall on the female side of the staple. They can be screwed at 16 in (406.4 mm) and 48 in (1219.2 mm). Installation starts from the bottom to the top and must be done one row at a time. For the installation of the first column of panels, it is important to use the plastic spacers supplied by MAC, because this column becomes the spacing reference for the installation of the rangers.
- For HIGH-RISE buildings or buildings that are highly exposed to winds, additional caulking of the panels is recommended. It should be applied inside the female part of the 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.

Additionally, it is recommended to add visible screws (painted A058 screws with neoprene washer with 24 in c/c spacing) between panels to greatly improve the wind resistance (see test results).

- Installation of MAC siding products on ZIP system Insulated R-Sheathing Panels, or on other dual composite panels made from softer materials than wood, is not recommended. This type of panel doesn't offer a good rigid mounting surface for MAC products and will allow for movement and deformation under varying weather conditions and levels of sun exposure, and may lead to warping or 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.

