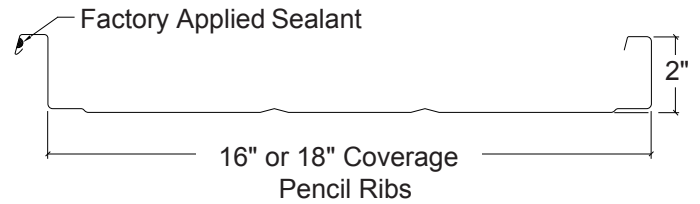
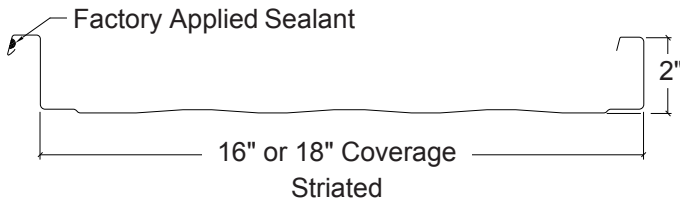
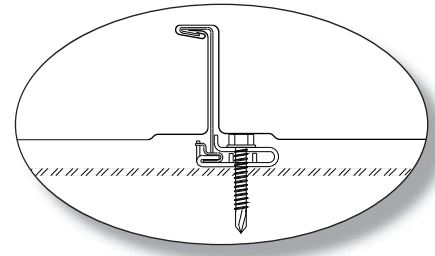
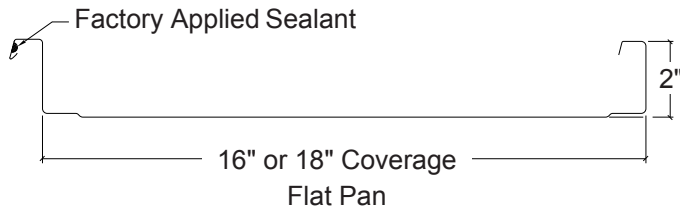


# MAGNA-LOC



ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL

CONCEALED  
FASTENERS

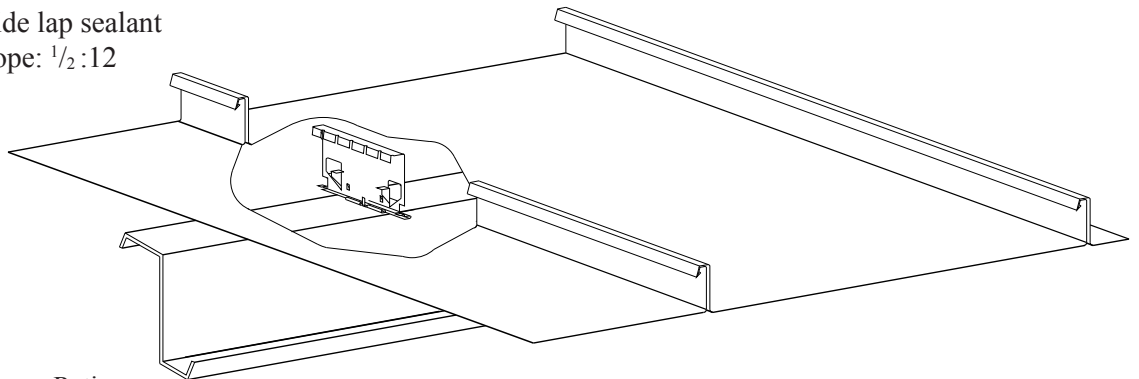
16" OR 18"  
COVERAGE

MINIMUM  
1/2:12 SLOPE

OPEN FRAMING OR  
SOLID SUBSTRATE

## PANEL OVERVIEW

- Finishes: Kynar 500 (PVDF), Acrylic Coated Galvalume®
- Gauges: 24ga standard
- 16" or 18" panel coverage, 2" rib height
- Panels can be factory notched and punched
- Architectural/structural flat pan standing seam panel
- Applies over open framing or solid substrate
- Concealed clip designed to accommodate thermal movement
- Integral mechanically seamed side lap seam
- Accommodates 1/2" to 6" blanket insulation
- Factory applied side lap sealant
- Minimum roof slope: 1/2 :12



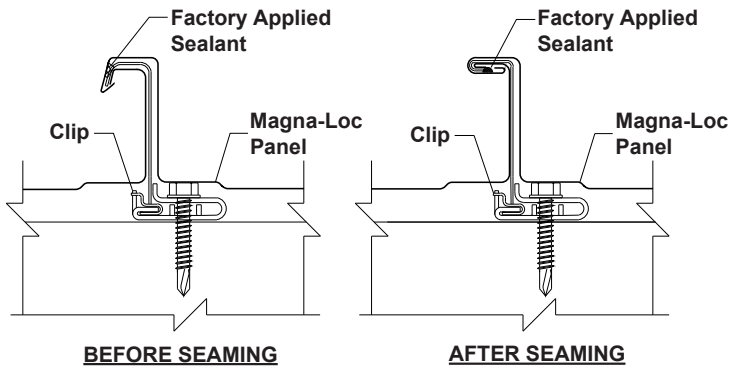
## TESTING

- UL-263 Fire Resistance Rating
- UL-2218 Class 4 Impact Resistance
- Florida Building Code Approved
- UL-790 Class A Fire Resistance Rating
- UL 580 Class 90 Wind Uplift

# MAGNA-LOC



## ATTACHMENT DETAILS



## GENERAL INFORMATION

### Slope

The minimum recommended slope for the Magna-Loc roof panel is 1/2:12.

### Substructure

Magna-Loc is designed to be utilized over open structural framing or a solid substrate.

### Clips

Clip spacing is based upon the spacing of structural framing members and loading requirements.

### Coverage

Magna-Loc panels are available in a 2" seam height with a 16" or 18" width coverage.

### Length

Minimum factory cut length is 5'-0" (with striations), 7'-0" (without striations). Maximum recommended panel length is 45'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult your representative for recommendations.

### Fasteners

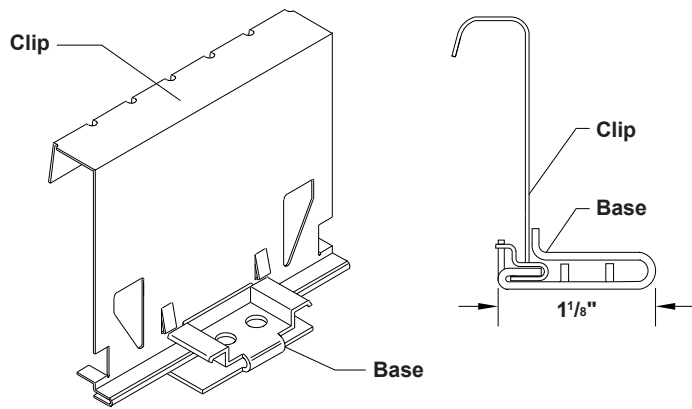
The fastener selection guide should be consulted for choosing the proper fastener for specific applications. Quantity and type of fastener must meet necessary loading and code requirements.

*NOTE: All panels are subject to surface distortion due to improperly applied fasteners. Overdriven fasteners will cause stress and induce oil canning across the face of the panel at or near the point of attachment.*

### Availability

Finishes: Acrylic Coated Galvalume® or various Kynar 500 (PVDF) colors.  
Gauges: 24ga

## PANEL CLIP



## SECTION PROPERTIES

## ALLOWABLE UNIFORM LIVE LOADS PSF (3 or More Equal Spans)

| Ga. | Width (in.) | Yield KSI | Weight PSF | Top in Compression         |                            | Bottom in Compression      |                            | Inward (Gravity / Deflection) Load |     |      |     |      | Outward Uplift (Stress) Load |      |    |      |    |      |    |
|-----|-------------|-----------|------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------------|-----|------|-----|------|------------------------------|------|----|------|----|------|----|
|     |             |           |            | Ixx<br>In <sup>4</sup> /ft | Sxx<br>In <sup>3</sup> /ft | Ixx<br>In <sup>4</sup> /ft | Sxx<br>In <sup>3</sup> /ft | 2.5'                               | 3'  | 3.5' | 4'  | 4.5' | 5'                           | 2.5' | 3' | 3.5' | 4' | 4.5' | 5' |
|     |             |           |            |                            |                            |                            |                            |                                    |     |      |     |      |                              |      |    |      |    |      |    |
| 24  | 16"         | 50        | 1.25       | 0.1785                     | 0.1013                     | 0.0855                     | 0.0754                     | 161                                | 126 | 101  | 82  | 68   | 57                           | 65   | 60 | 55   | 50 | 45   | 40 |
| 22  | 16"         | 50        | 1.63       | 0.2468                     | 0.1419                     | 0.1178                     | 0.1066                     | 257                                | 197 | 155  | 125 | 103  | 86                           | 86   | 80 | 73   | 67 | 61   | 55 |
| 24  | 18"         | 50        | 1.21       | 0.1620                     | 0.0900                     | 0.0760                     | 0.0669                     | 144                                | 112 | 89   | 73  | 61   | 51                           | 68   | 62 | 56   | 50 | 43   | 37 |

- Theoretical section properties have been calculated per AISI 2001 "Specification for the Design of Cold-formed Steel Structural Members." Ixx and Sxx are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2001 specifications considering bending, shear, combined bending and shear, deflection, and ASTM 1592 testing. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection and panel weight is not considered.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase in uplift.