# CORRUGATED

EXPOSED FASTENER SYSTEMS

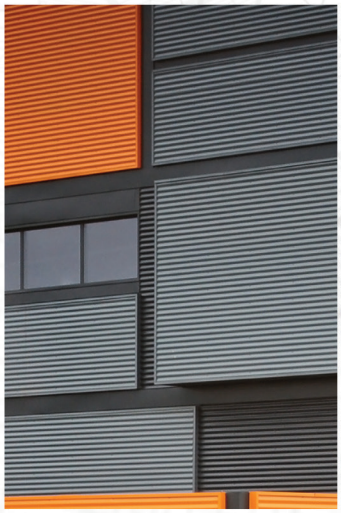

The **QM Corrugated Panel** is a versatile and durable solution designed for a wide range of applications, including architectural, agricultural, commercial, and industrial projects. Its classic corrugated profile combines structural strength with aesthetic appeal, making it an ideal choice for both functional and decorative purposes.

This exposed-fastener panel is engineered to provide excellent performance in wall applications, offering durability and resistance to various environmental conditions. The **QM Corrugated Panel** is perfect for creating striking visual effects on facades while maintaining structural integrity.

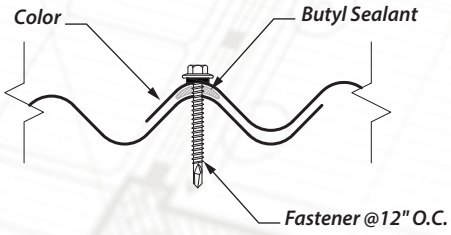
- **Versatility:** Suitable for modern architectural designs as well as traditional and industrial settings.
- **Durability:** Made to withstand harsh weather, ensuring long-lasting performance.
- **Ease of Installation:** Features an exposed-fastener system for quick and efficient installation.
- **Sustainability:** Manufactured with recyclable materials, making it an eco-friendly choice for construction.

## Specifications:

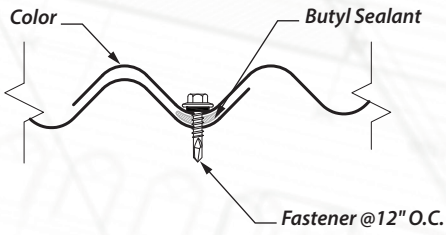
- **Coverage Widths: 32" roof** *(alternate coverages)* **34.67" Wall Coverage.**
- **Rib Height: 7/8"**
- **Rib Spacing: 2 2/3" O.C.**
- **Attachment: Fasteners.**
- **Gauges: 20, 22, 24 and 26**
- **Finishes: Painted, Galvanized and Galvalume®.**
- **Panel Length: Minimum: 3'; Maximum: 45' recommended.**
- **Applies over open framing or solid substrate.**
- **Panels can be installed horizontally or vertically.**
- **Recommended Minimum Roof Slope:** *3:12*



### ROOF LAP DETAIL




### WALL LAP DETAIL






Quality Metals ROOF AND WALL SYSTEMS

EXPOSED FASTENER ROOF AND WALL SYSTEMS

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# CORRUGATED

EXPOSED FASTENER SYSTEMS

| SECTION PROPERTIES | | | | | | | | ALLOWABLE UNIFORM LOADS, PSF *for various fastener spacings* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GA | WIDTH IN | YIELD ksi | WEIGHT psf | TOP IN COMPRESSION | | BOTTOM IN COMPRESSION | | INWARD LOAD | | | | | | OUTWARD LOAD | | | | | |
| | | | | Ixx $in^4/ft$ | Sxx $in^3/ft$ | Ixx $in^4/ft$ | Sxx $in^3/ft$ | 2' | 3' | 4' | 5' | 6' | 7' | 2' | 3' | 4' | 5' | 6' | 7' |
| 26 | 34.67 | 50 | 0.94 | 0.0256 | 0.0576 | 0.0256 | 0.0576 | 322 | 147 | 66 | 34 | 20 | 12 | 322 | 147 | 66 | 34 | 20 | 12 |
| 24 | 34.67 | 50 | 1.22 | 0.0312 | 0.0739 | 0.0312 | 0.0739 | 412 | 188 | 80 | 41 | 24 | 15 | 412 | 188 | 80 | 41 | 24 | 15 |
| 22 | 34.67 | 50 | 1.60 | 0.0415 | 0.0950 | 0.0415 | 0.0950 | 530 | 241 | 107 | 55 | 32 | 20 | 530 | 241 | 107 | 55 | 32 | 20 |
| 20 | 34.67 | 33 | 1.95 | 0.0485 | 0.1139 | 0.0485 | 0.1139 | 419 | 191 | 108 | 64 | 37 | 23 | 419 | 191 | 108 | 64 | 37 | 23 |

1. The theoretical section properties have been calculated in accordance with the AISI 2012 ***North American Specification for the Design of Cold-Formed Steel Structural Members.*** The values for **Ixx** and **Sxx** represent effective section properties for deflection and bending.

2. The allowable load is determined based on the AISI 2012 specifications, taking into account bending, shear, combined bending and shear, and deflection. It assumes conditions with three or more equal spans and does not account for web crippling, fasteners, support materials, or load testing. Panel weight is also excluded from these calculations.

3. Deflection is limited by a maximum deflection ratio of **L/180** of the span.

4. Allowable loads do not include a 1/3 stress increase for wind loads.

## Fastener Notes:

- **When possible, lap panels away from prevailing wind direction.**
- **15/32" OSB: #14 GP Neoprene Washered fastener. Screws should be long enough to penetrate through the bottom of the plywood by 3/8".**
- **15/32" Plywood: #14 GP Neoprene Washered fastener. Screws should be long enough to penetrate through the bottom of the plywood by 3/8".**
- **Dimensional lumber: #10 GP. Screws should penetrate the lumber 1".**
- **16GA (or less) steel furring: #12 Fastener with DP-1**
- **Sidelaps fasten with #14 LapTek screws.**
- **All trim screws used for roof or wall applications should have EPDM sealing washers.**
- **Fastener spacing is based on project specific structural requirements.**

QM Storm ARMOR

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