

# RetroDriller Fastener

## PRODUCT DATA SPECIFICATIONS

### PRODUCT DESCRIPTION

The OMG RetroDriller Fastener is designed for attaching single-ply membrane systems to structural steel purlins (up to 3/16-in. [5mm]) in standing seam metal roof retrofit applications.

The OMG RetroDriller Fastener has a 1/2-in. (13mm) drill point that quickly drills into structural purlins. It is available in five lengths from 4-in. to 10-in. (100 to 255mm) and is Factory Mutual approved.

### FEATURES & BENEFITS

- Depending on hardness/tensile of the purlins or bar joist, the RetroDriller Fastener may be used on steel up to 3/16-in. (5mm) thick.
- Low profile head has a smooth surface to ensure that there is no damage to the membrane.
- FM Approved.

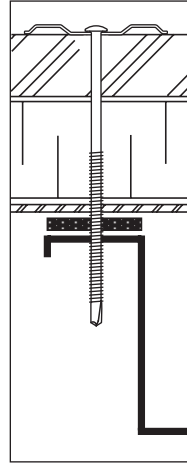
### COATING

OMG CR-10 corrosion resistant coating passes the corrosion requirements of FM Approval Standard 4470 and ETAG 006.

### APPLICATION

The OMG RetroDriller Fastener must penetrate through the purlin a minimum of 1-in. (25mm).

Using a screw gun with a maximum of 1800 RPM, drive the fastener through the purlin until a slight depression is seen around the plate.



**Note: Caution should be taken not to overdrive the fastener causing stress plate surface to deflect more than 1/16-in. (1.6mm).** Prior to job bid, contact OMG to visit the job site for pullout test.

### PLATES & ACCESSORIES

Use 3-in. (80mm) RhinoBond® (TPO or PVC) insulation plate or other plate as appropriate.



For best installation results, use a high torque, low RPM screw gun with a maximum of 1800 RPM.

### APPROVALS



**Factory Mutual listings refer to this product as RetroDriller Fastener.**



USE WITH  
**P**  
DECK TYPES

### PHYSICAL DATA \*

The data below is constant for each OMG RetroDriller Fastener.

| HEAD                                  | THREAD                     |
|---------------------------------------|----------------------------|
| #3 Square<br>.425" (10.79mm) Diameter | .230" (5.84mm)<br>Diameter |
| SHANK                                 | COATING                    |
| .194" (4.92mm) Diameter               | CR-10                      |

### ORDERING INFORMATION

| CAT. NO. | LENGTH IN (MM) | THREAD IN (MM) | PKG | WEIGHT LBS (KG) |
|----------|----------------|----------------|-----|-----------------|
| RDDP004B | 4" (100)       | 3" (76)        | 500 | 19 (8.62)       |
| RDDP005B | 5" (125)       | 3" (76)        | 500 | 21 (9.53)       |
| RDDP006B | 6" (150)       | 3" (76)        | 500 | 25 (11.35)      |
| RDDP007B | 7" (175)       | 3" (76)        | 500 | 31 (14.07)      |
| RDDP008B | 8" (200)       | 3" (76)        | 500 | 32 (14.52)      |
| RDDP010B | 10" (255)      | 3" (76)        | 500 | 40 (18.16)      |

Each RetroDriller Fastener has a 1/2-in. (13mm) drill point. Fastener must be installed with a minimum 1" (25mm) penetration through the purlin.

\*All sizes are nominal.

#### KEY:

|                  |   |
|------------------|---|
| <b>S</b> Steel   | <b>SC</b> Structural Concrete               |
| <b>W</b> Wood    | <b>LC</b> Lightweight Concrete              |
| <b>G</b> Gypsum  | <b>LWIC</b> Lightweight Insulating Concrete |
| <b>P</b> Purlins | <b>CWF</b> Cementitious Wood Fiber          |

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The fastener will be an OMG RetroDriller Fastener with a nominal shank diameter of .194-in. (4.92mm) and a thread diameter of .230-in. (5.84mm). The OMG RetroDriller Fastener will be used with a Factory Mutual approved 3-in. (80mm) round RhinoBond plate (TPO or PVC) or other plate as appropriate. The fastener must be Factory Mutual approved.

### APPLICATION

Using a screw gun with a maximum of 1800 RPM, drive the OMG Retro-Driller Fastener into the purlin until a slight depression is seen around the plate. The OMG RetroDriller Fastener must penetrate through the purlin a minimum of 1-in. (25mm).

**Note: Caution should be taken not to overdrive the fastener causing the stress plate to deflect more than 1/16-in.** Prior to job bid, contact OMG to visit the job site and test the fastener.

### PHYSICAL DATA\*

The data below is constant for each OMG RetroDriller Fastener.

| HEAD                                  |  | THREAD                     |  |
|---------------------------------------|--|----------------------------|--|
| #3 Square<br>.425" (10.79mm) Diameter |  | .230" (5.84mm)<br>Diameter |  |
| SHANK                                 |  | COATING                    |  |
| .194" (4.92mm) Diameter               |  | CR-10                      |  |
|                                       |  | PACKAGING                  |  |
|                                       |  | 500/carton                 |  |

\*All sizes are nominal.

### RETRODRILLER FASTENER LENGTH SELECTION PROCEDURE

| RETRODRILLER FASTENER LENGTH | COMBINED THICKNESS OF MEMBRANE AND/OR EXISTING SUBSTRATE |
|------------------------------|--|
|                              | MAX. TOTAL THICKNESS                                     |
| 4" (100mm)                   | 3" (75mm)  |
| 5" (125mm)                   | 4" (100mm)   |
| 6" (150mm)                   | 5" (125mm)   |
| 7" (175mm)                   | 6" (150mm)   |
| 8" (200mm)                   | 7" (175mm)   |
| 10" (255mm)                  | 9" (230mm)   |



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