

# OCTAFORM® WALLARMOR

HANDLING | INSTALLATION | CARE

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### INTRODUCTION

**Octaform WallArmor** is a PVC stay-in-place solution for the repair of existing compromised concrete structures.

Using a unique push-on connection method, the system can be tailored to meet a project's physical location restrictions.

The stay-in-place PVC panels protect the new concrete and steel from all corrosive elements greatly enhancing the lifespan of the structure versus conventional methods.

### START HERE:

Please read this guide completely before commencing installation. Follow all of the recommended fastening and installation procedures.

Note that improper installation of Octaform WallArmor may cause permanent damage of the products which will void any warranty.

The purchaser is solely responsible for determining the suitability for use or application of Octaform WallArmor and all components thereof.

The purchaser is also responsible to determine if materials meet all requirements of applicable local building and safety codes for the specific applications.

The purchaser is solely responsible for ensuring that selected fasteners and any support structure receiving these fasteners, are structurally adequate for their purpose in fixing the panels in place, for the required duration of their use.

Improper handling, storage or installation of Octaform WallArmor may void warranty agreements.



# INSTALLATION

## 1. Anchor stand-off connectors to damaged wall.

Use 1 anchor per 1' of brace, braces are 3" apart

Standard Hilti Nail Anchors (300 lb pullout rate) (engineer to calculate head pressure)

Spalled areas require ¼" wedge anchors (300 lb pullout rate) (engineer to calculate head pressure) with extra nut to ensure Octaform connectors have uniform placement in line with original position of the tank (i.e. are not deformed inwards in spalled cavities)

Contractor or engineer to estimate time and materials based on square footage of this occurrence – similar density required – 1 per foot on each connector.

In some cases where concrete hardness is a concern, epoxy anchors may be required.



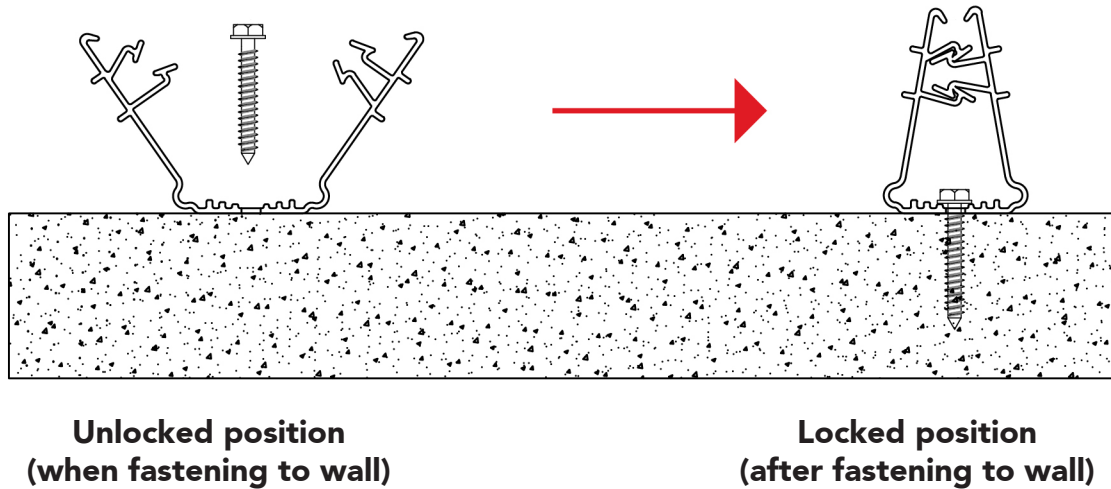
## How to estimate total project anchors:

- Total required calculation:  $3/\text{sf} + 1$  per foot height + 3 per foot circumference less "spalled areas" anchor quantity.
- Labor for standard Hilti placed nails in strips – likely one laborer can place 200 feet of connectors per hour ( $200/3 = 66.6 \text{ sf/hr}$ ).
- For pre-drilling and placement of wedge anchors 30 anchors of ¼" anchors.

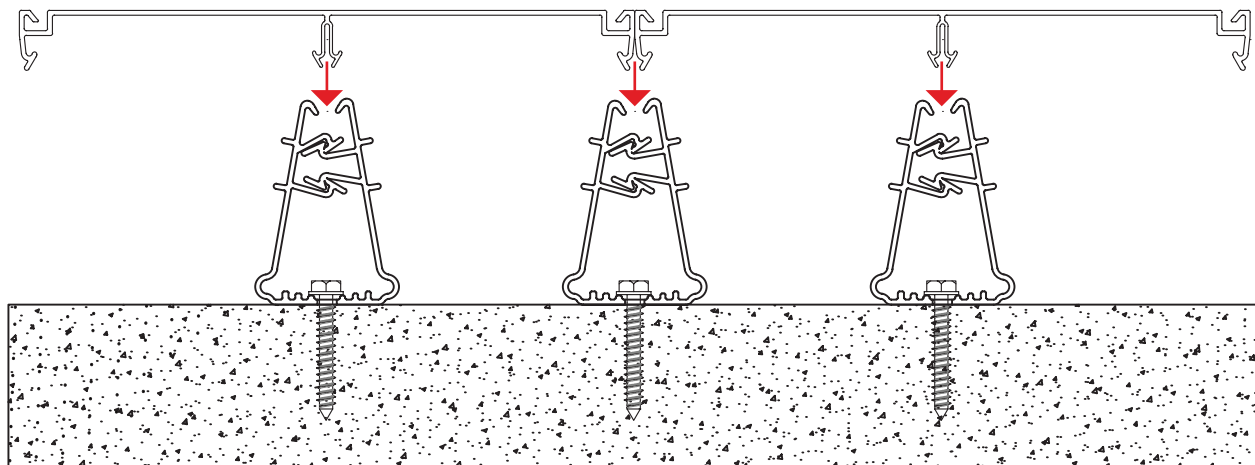


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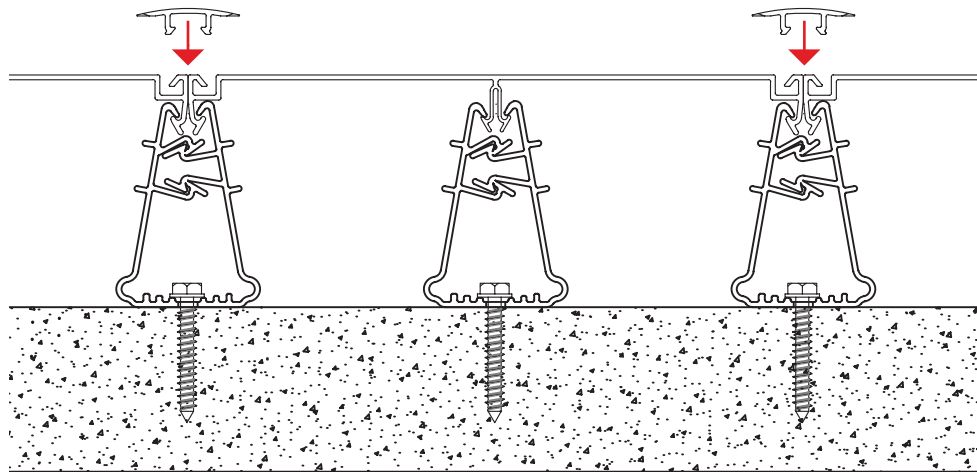
**2. Close stand-off connectors by folding sides in until they click and lock together:**



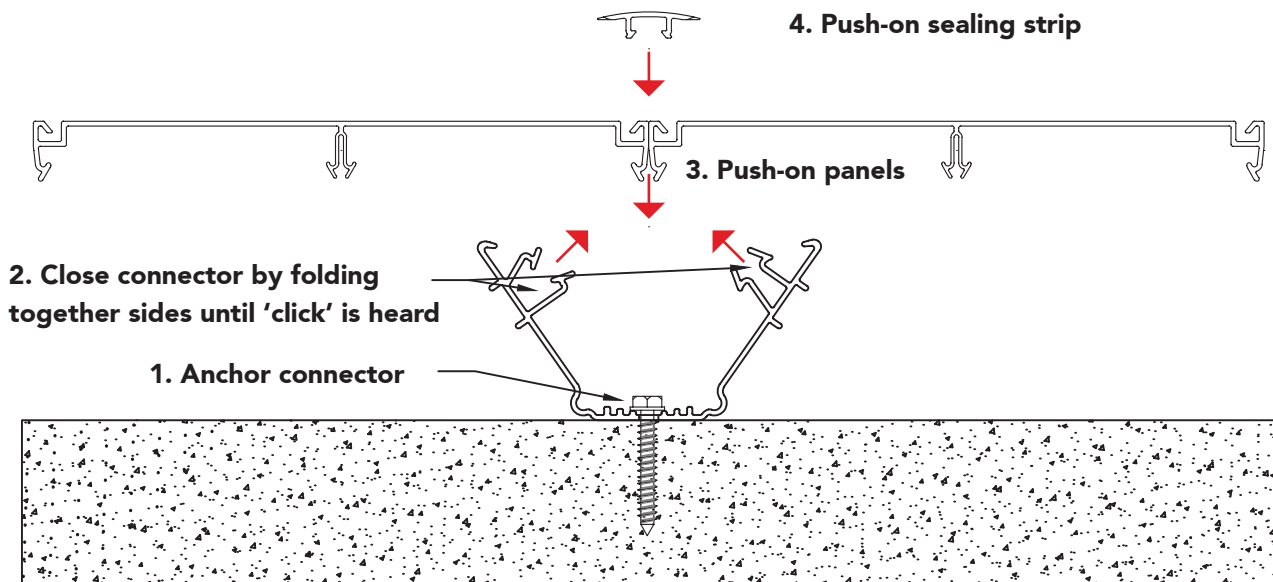
**3. Insert push-on panel anchor hooks firmly into standoff connectors at mid-panel and at each panel joint as shown:**



**4. Firmly press-in sealing strip to each vertical panel seam:**

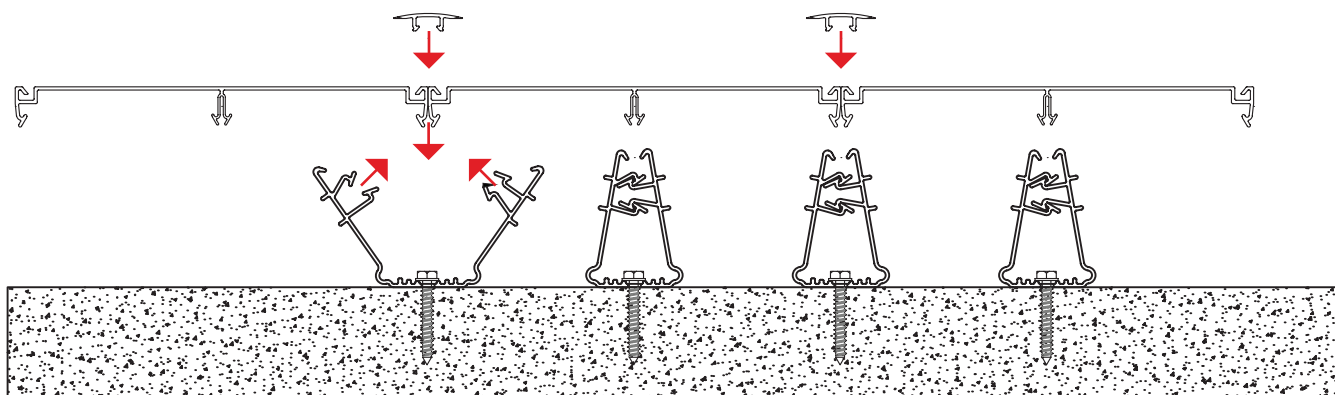


**Panel assembly:**

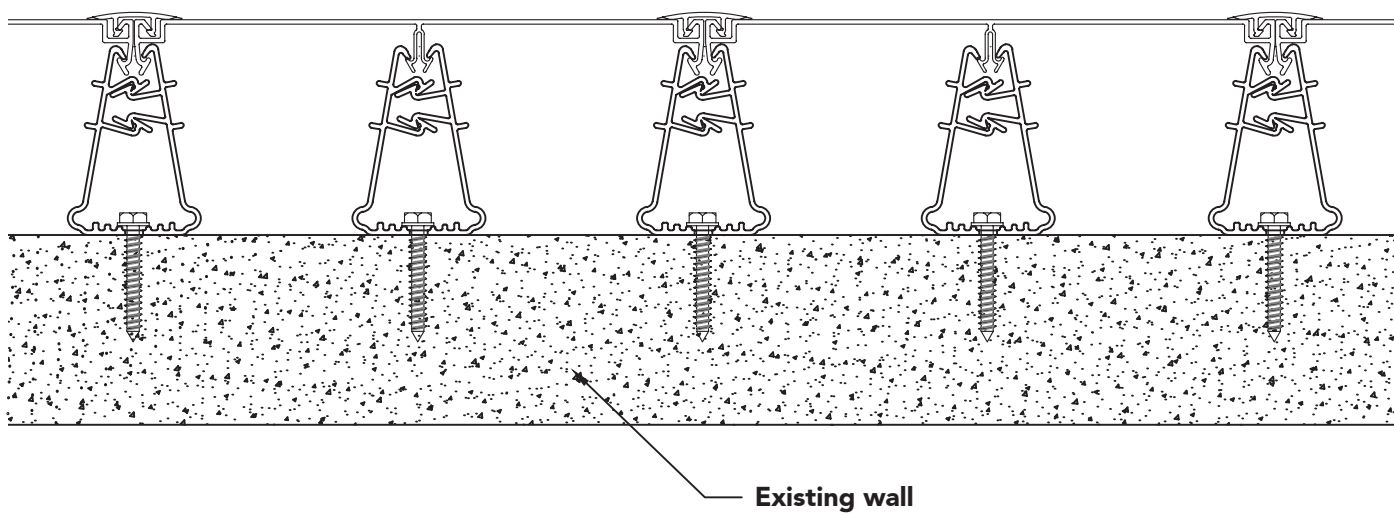


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**Panel assembly in-context (with additional connectors shown closed):**

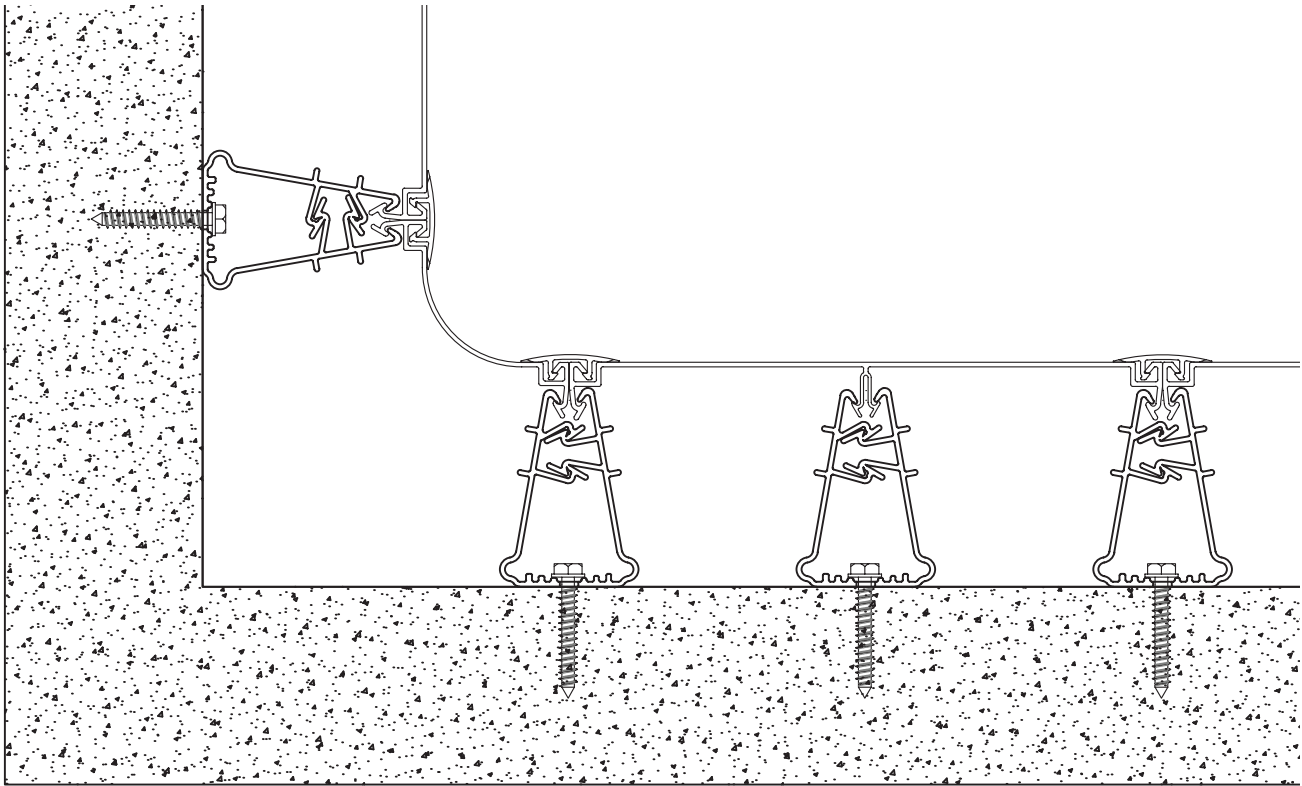


**Completed panel assembly cross-section:**

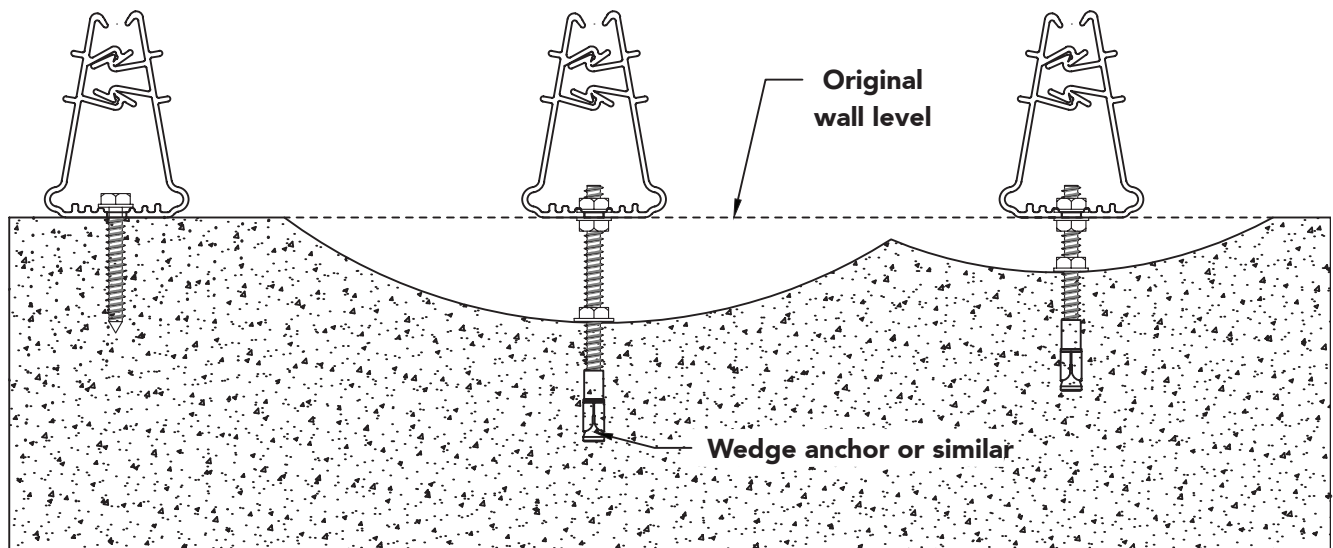




**Inside corner assembly:**



**Spalled area example:**



**Apply polyurethane or other finishes to floor and lap up PVC as specified by owner's engineer.**



## ADDITIONAL COSTS

1. Grout and grout placement
2. Add crystalline admixture in location of
3. Re-glue grout port cutouts and apply PU sealant over top
4. Seal horizontal panel seam = 1 seam x circumference – use a PU sealant PVC compatible. May require more monitoring vs Octaform liner
5. Optionally have PVC joint welded
6. Ceiling application would be PU membrane

## CLEANING

To remove common dirt and grime and to maintain the appearance of Octaform liner, wash using a general cleaner, applied with sponge or soft bristle brush.

Some solvent cleaners may damage the finish of the Octaform liner and must be tested on a small sample area first.

Some cleaners not recommended: Clorox, Pine Power, Tide Power, Grease Relief, Paint Thinner and Nail Polish Remover.

Protect eyes and skin from direct contact with cleaning agents at all times.

**Always follow the precautionary labeling and manufacturer instructions for all cleaning agent containers.**

