

Architecture Metals Ltd. Co.

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Flood shield installation general notes

- Building contractor shall see to it that all surfaces to receive Flood shields shall be “paper smooth”, plumb, true and level before installation can begin. Leakage will occur if these requirements are not met.
- After verification of field conditions and properly prepared openings, install flood shields in strict accordance with approved submittal drawings.
- Attach only to smooth surfaces providing for proper and compatible infill for gaps in substrate. When installing in CMU. The hollow block must be filled with concrete prior to installing concrete anchors.
- Existing slabs and walls adjacent to openings where flood shields are to be installed shall be given a water proof sealer surface treatment prior to installation of flood shields by the building contractor.
- Protect all dissimilar metals with a heavy coat of zinc chromate or bituminous paint.
- Install true and plumb without warping or racking.
- Apply appropriate sealants where indicated on shop drawings and in accordance with manufacturers recommendations.
- Flood shield installer shall install shields one time, for fitting and anchoring. Installer shall uninstall, and building contractor shall then move shields to storage location or as directed by architect or owner’s representative.
- All drop in or calk in anchors are to be installed 1/8” below surface.
- After anchors are installed, install anchor plugs to avoid dirt build-up.
- After installation, store all bolts with the shield.
- Protect all gaskets from damage at all times.
- Handle shields carefully and store safely.

Flood shield field installation procedure

- Follow instructions from “Flood shield installation general notes”.
- **When installing a single Flood shield on wall “Face Mount” opening:**
 - 1) Sweep surfaces clean prior to moving flood shield into opening.
 - 2) Carefully place shield in opening at desired location based on submittal drawings.
 - 3) Check barrier for level and plumb. Also check for gaps between gasket and mounting surface. If gaps are evident, remove barrier and notify contractor of required changes to be performed at opening.
 - 4) Once level and plumb, install tap con and washer through the top bolt hole on each vertical mounting flange. Also install tap con and washer in the bottom flange bolt holes at each end of the horizontal flange along the sill. This will hold the shield in place while locating the remaining bolt hole positions.
 - 5) Pre-drill holes with concrete bit at center of each remaining flange anchor hole. Use a small drill bit to drill the preliminary holes.
 - 6) Remove tap cons and carefully move flood shield from opening.

- 7) Use concrete drill bit recommended for required anchors. Drill final anchors holes at pre-drilled hole sites.
- 8) All drop in or calk in anchors are to be installed 1/8" below surface.
- 9) Removed all concrete dust and sweep mounting surfaces clean.
- 10) Replace shield in opening and bolt into place. Check all anchors and gaskets for fit.
- 11) Remove flood shield and store safely.

- **When installing single Flood shield inside "Jamb Mount" opening:**

- 1) Sweep surfaces clean prior to moving flood shield into opening.
- 2) Locate positions for Jamb posts.
- 3) Carefully place shield in opening at desired location against jamb posts based on submittal drawings.
- 4) Check barrier for level and plumb. Also check for gaps between gasket and mounting surface. If gaps are evident, remove barrier and notify contractor of required changes to be performed at opening.
- 5) Once level and plumb, install tap con and washer through the top and bottom bolt hole on each vertical mounting flange in jamb posts. Secure flood shield to jamb posts.
- 6) Install tap con and washer in the flood shield bottom flange bolt holes at each end of the horizontal flange along the sill. This will hold the shield in place while locating the remaining bolt hole positions.
- 7) Pre-drill holes with concrete bit at center of each remaining flange anchor hole. Use a small drill bit to drill the preliminary holes.
- 8) Remove tap cons and carefully move flood shield from opening.
- 9) Use concrete drill bit recommended for required anchors. Drill final anchors holes at pre-drilled hole sites.
- 10) Install concrete anchors
- 11) All drop in or calk in anchors are to be installed 1/8" below surface.
- 12) Removed all concrete dust and sweep mounting surfaces clean.
- 13) Replace shield in opening and bolt into place. Check all anchors and gaskets for fit.
- 14) Remove flood shield and store safely.

- **When installing multiple Flood shields in an opening:**

- 1) Sweep surfaces clean prior to moving flood shield into opening.
- 2) Use directions above for face or jamb mount to position left and right side flood shields in opening. These shields connect to the wall.
- 3) Connect intermediate flood shields to left and right side flood shields. Bolt vertical flanges together.
- 4) Install tap con and washer in the bottom flange bolt holes at each end of the horizontal flange for each intermediate panel along the sill. This will hold the shield in place while locating the remaining bolt hole positions.
- 5) Follow instructions above for face mount #5 through #11 to finish installation.