



Product Technical Bulletin

Dated: January 19, 2004

Lightning Protection Equipment

Listed below are the requirements for lightning protection equipment installed on MBCI standing seaming roofs. Failure to follow these requirements may void any Galvalume®, paint, or weathertightness warranties associated with the subject roof.

Material Compatibility

MBCI standing seam roof panels are manufactured from Galvalume® coated steel. To prevent galvanic corrosion, the roof panels must not come into contact with, or water runoff from, copper, lead or copper bearing brasses. Aluminum conductors and aluminum or stainless steel clamps and fixtures are compatible with Galvalume®-coated steel.

General Installation Notes

Do not fasten surface mount bases to the roof panels or trim with screws. Use only standing seam clamp bases, which are fastened to the panel seams.

Keep in mind standing seam roof systems expand and contract with temperature fluctuations. On wide roofs, this movement can be substantial. Take roof movement into account when considering conductor leads and roof penetrations.

Do not penetrate the roof at valleys, crickets, or at any location in which a large amount of water may collect.

In Northern climates, protect all roof penetrations from moving ice or snow with a snow retention system, immediately up slope from penetration.

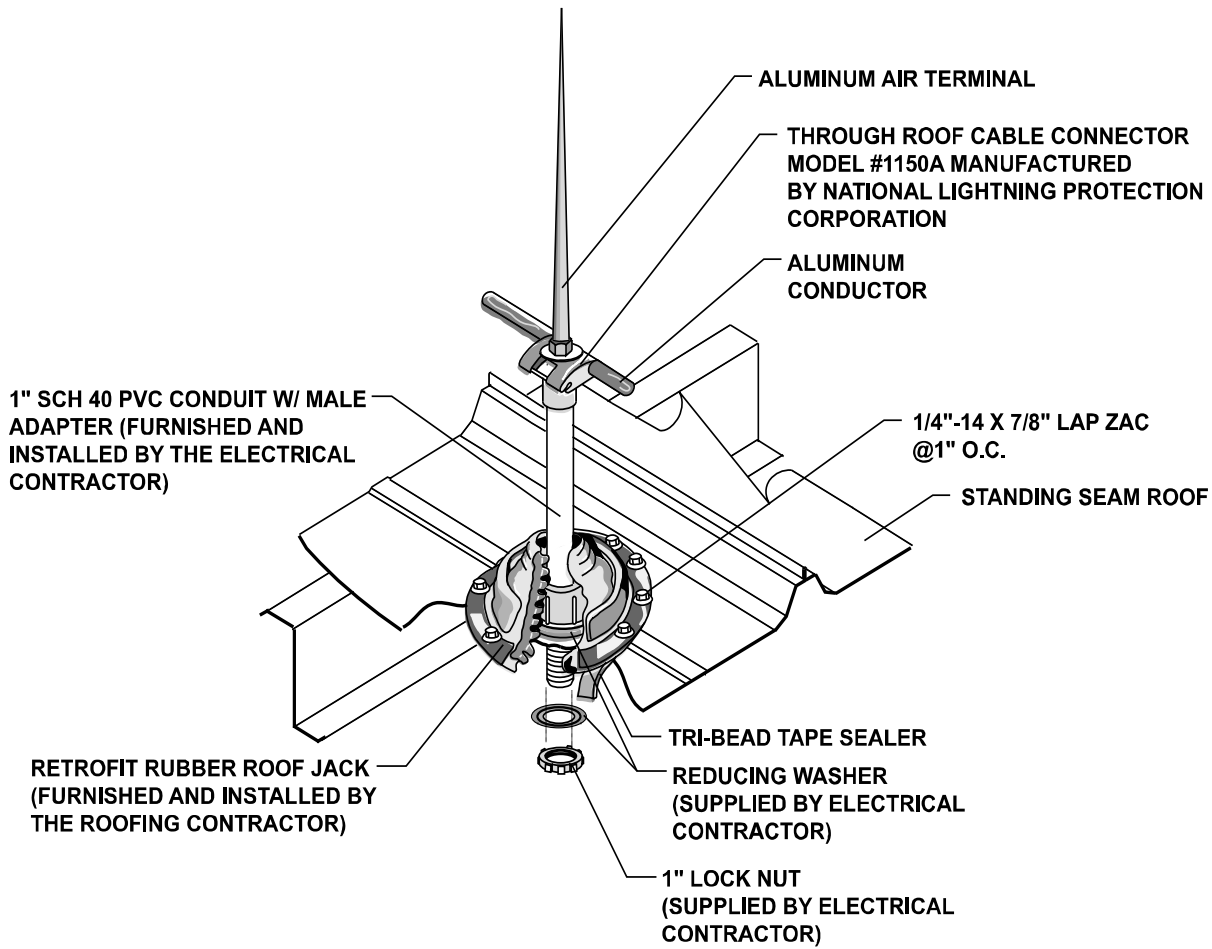
There are two MBCI approved methods of penetrating the roof. Please see accompanying pages for details of each method and installation notes applicable to each method.

Always consult with the roofing contractor before beginning installation of conductors and down leads.

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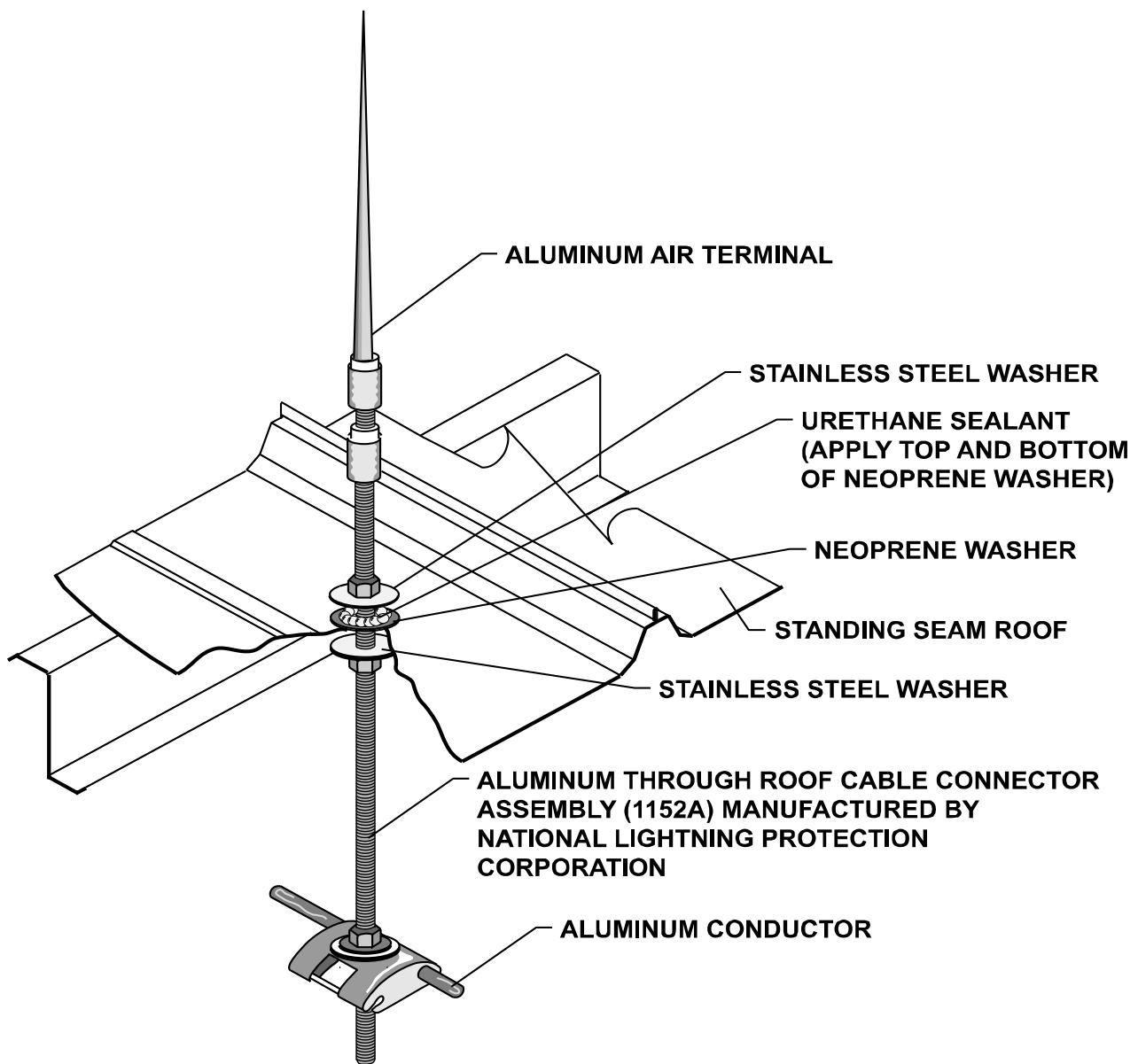
Material Subject to Change Without Notice

MBCI Proprietary Information



Notes:

1. This method is acceptable for penetrations through roof panels or trim. The hole through roof or trim must be on a flat surface, with a minimum clearance of 4 1/2" in each direction.
2. Coordinate all penetration locations with roofing contractor.
3. Sweep or blow all drill filings from roof. Steel filings may rust and severely stain the roof.
4. Roofing contractor to supply and install rubber roof jack. Seal roof jack to metal roof or trim with butyl tape sealant and 1/4"-14 x 7/8" long-life lap tek fasteners at 1" on center around perimeter of base.
5. This detail requires the use of National Lightning Protection Corporation's model #1150A through roof cable connector, or equal. National Lightning Protection Corporation may be contacted at (800) 628-2816



Notes:

1. This method is acceptable for penetrations through roof panels or trim. The hole through roof or trim must be on a flat surface, with a minimum clearance of 1 1/2" in each direction.
2. Coordinate all penetration locations with roofing contractor.
3. Sweep or blow all drill filings from roof. Steel filings may rust and severely stain the roof.
4. Electrical contractor must use urethane sealant as called out in detail above. Use of any other sealant will void warranty.
5. This detail requires the use of National Lightning Protection Corporation's model #1152A through roof cable connector, or equal. National Lightning Protection Corporation may be contacted at (800) 628-2816