

# TECHNICAL BULLETIN

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## FOR TARGET MARKET ROOFING



BUILDING TRUST



**Subject: Lightning Protection**

**21-06**

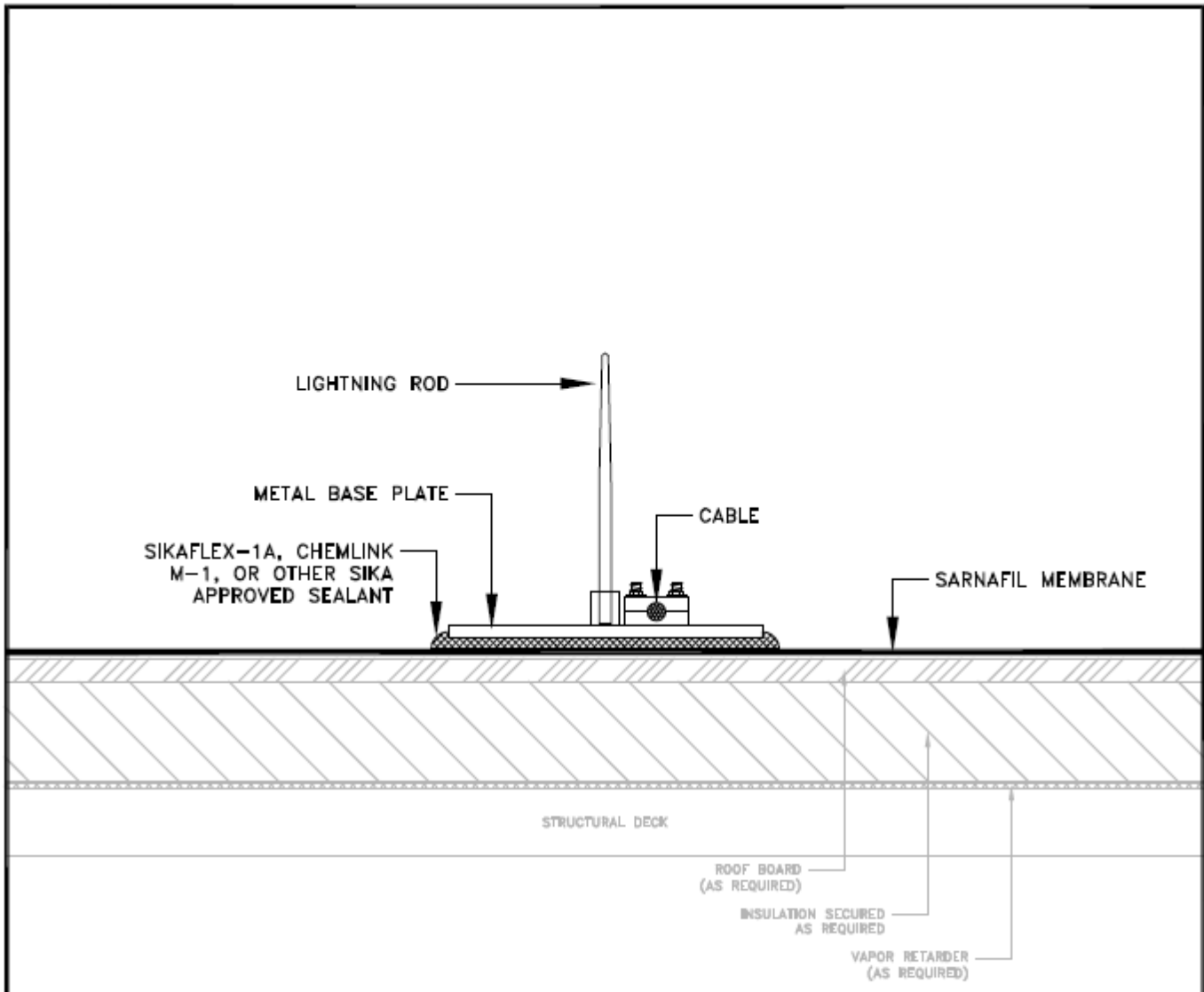
This technical bulletin addresses two issues regarding lightning protection systems installed to roof systems, the attachment to the roof membrane and attachment to edge metal.

Currently there are no standard building code requirements for the installation of lightning protection for buildings. There are certifications for lightning protection, which typically must meet UL 96A, and NFPA 780. The Lightning Protection Institute in 9/19/2016 stated, "*Lightning protection systems for structures are typically not a requirement of national building codes, although the Standards may be adopted by the authority having jurisdiction for the general construction or specific occupancies.*" The lightning protection industry is working with ICC to codify their systems. SPRI is taking an active role in this process to ensure the integrity of roofing components are not compromised.

Regarding the attachment of the lightning protect rods to our membrane, starting immediately, we will accept the use of either Sikaflex 1a or Chem-Link M-1 Sealant to adhere the lightning protection direct to the roof membrane, we will no longer require a separator layer. Please see attached detail.

The attachment of the lightning protection system to metal coping or fascia creates an issue as the addition of the lightning protection to fascia and copings is not tested per ANSI/SPRI ES-1. There may be a long-term performance issue with wind loading with the addition of the lightning protection secured to the metal edge. The attachment of the lightning protection to metal edge system may void the warranty from the supplier, as well as not meet insurance criteria, such as a FM rated system.

If the lightning protection design shows attachment to the metal edge, the supplier of the edge system must be informed and provide input as to how this may be accomplished. Metal Era has three (3) details that can be used to not void the warranty, please see the following Metal Era details.



**NOTES:**

- 1) EXISTING CABLE SHALL BE CLEANED FREE OF ASPHALT CONTAMINATION AS REQUIRED PRIOR TO REINSTALLATION.
- 2) IF ASPHALT CONTAMINATION CAN NOT BE CLEANED, SIKA SARNAFIL REQUIRES A CONTINUOUS LAYER OF G 459 FLASHING UNDER LOCATION OF CABLE, HOT-AIR WELDED IN PLACE.
- 3) SIKA IS NOT RESPONSIBLE FOR LIGHTNING DAMAGE.
- 4) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.

## LIGHTNING ROD

**BUILDING TRUST**  
781-828-5400



JOB NAME:

SCALE: N.T.S.

DATE: 05/21

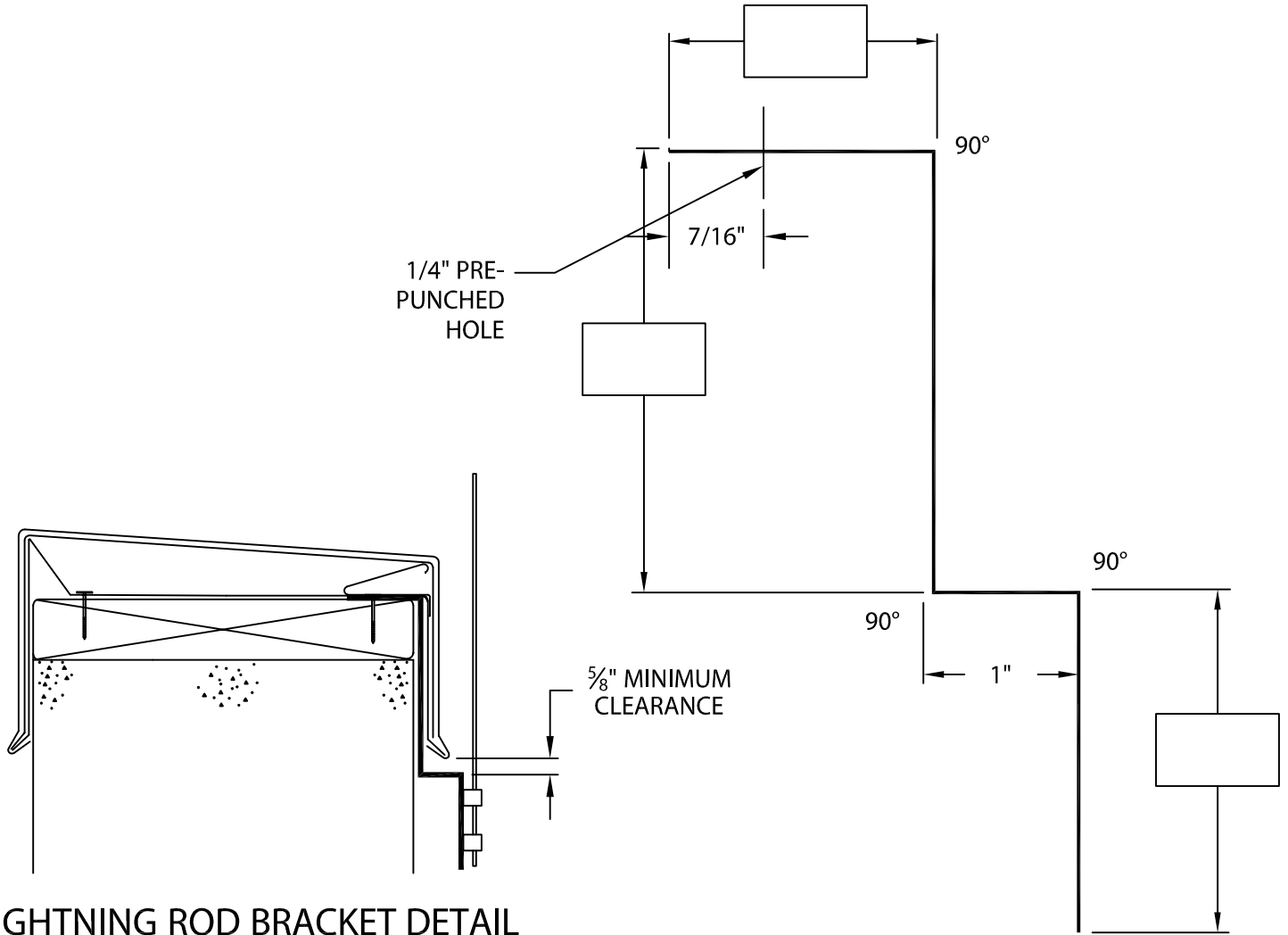
FILE NO: 7-8

DRW. NO: XXX

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# LIGHTNING ROD BRACKET

STYLE 1



**LIGHTNING ROD BRACKET DETAIL**

Fabrication will proceed only after receipt of signed print approval.

## Print Approval:

Architect and/or contractor shall verify all dimensions, sizes and quantities. All products to be installed in strict accordance with Metal-Era's printed instructions.

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

## MATERIAL:

20 Ga. (.90 mm) Stainless Steel

## QUANTITIES:

\_\_\_\_\_ Qty Required (12" Wide Bracket)

PROJECT:

ARCHITECT:

ROOFING CONTRACTOR:

REPRESENTATIVE/DISTRIBUTOR:

Corporate Offices, Manufacturing  
1600 Airport Road; Waukesha, WI 53188  
Phone: 800-558-2162  
Fax: 800-373-9156  
www.metalera.com



DATE: 07/24/08

DRN BY: JJC

CKD BY: SAK

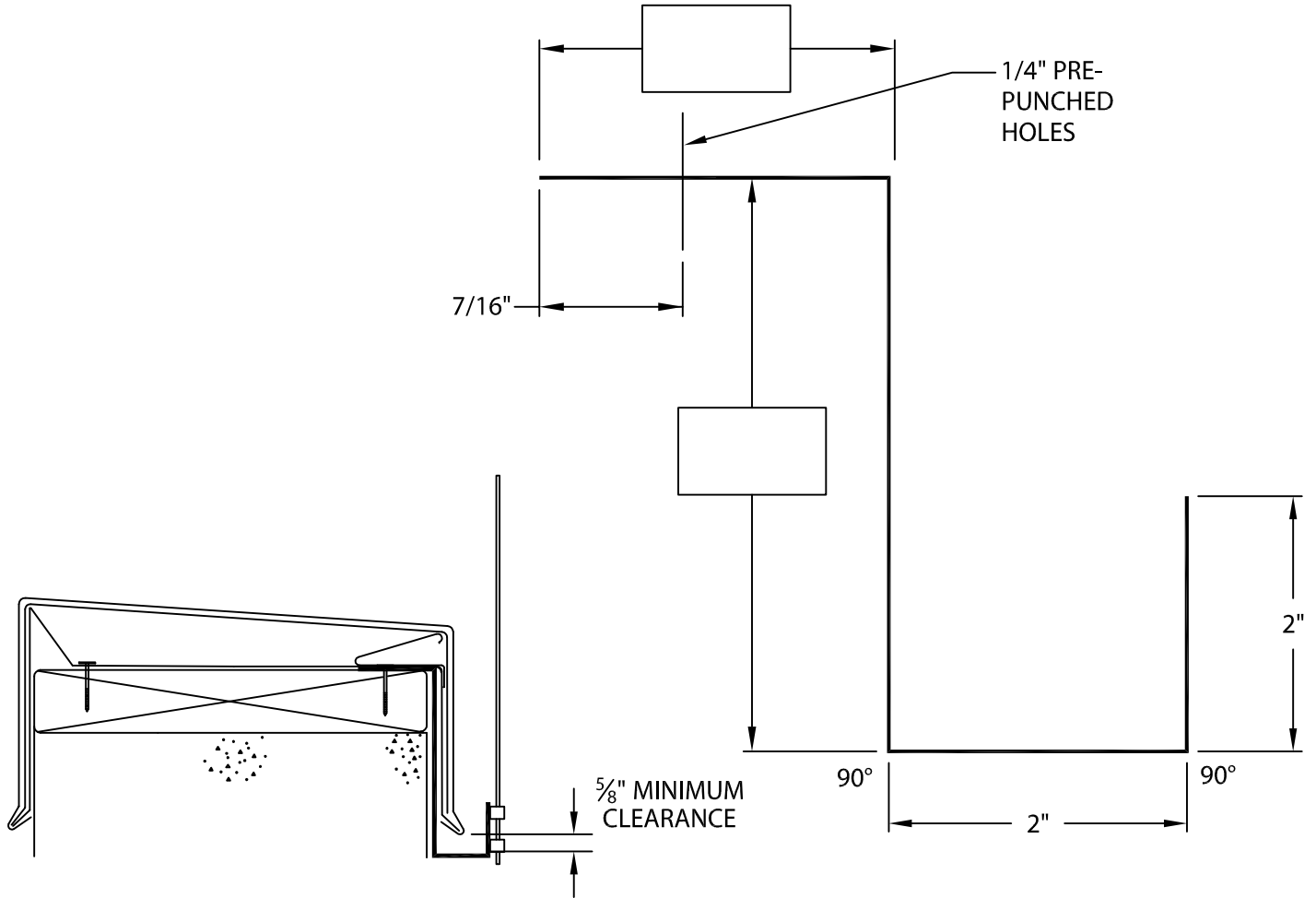
SHT.# \_\_\_\_ OF \_\_\_\_

DWG# 11018-2767

**B**

# LIGHTNING ROD BRACKET

STYLE 2



**LIGHTNING ROD BRACKET DETAIL**

Fabrication will proceed only after receipt of signed print approval.

## Print Approval:

Architect and/or contractor shall verify all dimensions, sizes and quantities. All products to be installed in strict accordance with Metal-Era's printed instructions.

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

## MATERIAL:

20 Ga. (.90 mm) Stainless Steel

## QUANTITIES:

\_\_\_\_\_ Qty Required (12" Wide Bracket)

PROJECT:

ARCHITECT:

ROOFING CONTRACTOR:

REPRESENTATIVE/DISTRIBUTOR:

Corporate Offices, Manufacturing  
1600 Airport Road; Waukesha, WI 53188  
Phone: 800-558-2162  
Fax: 800-373-9156  
www.metalera.com



DATE: 07/24/08

DRN BY: JJC

CKD BY: SAK

SHT.# \_\_\_\_ OF \_\_\_\_

DWG# 11018-2768

**B**

# LIGHTNING ROD BRACKET

COVER PLATE VERSION

FOR PERMA-TITE COPING

QUICKLOCK ASSEMBLY

