

ROOF BELLOW SYSTEM

Model(s): ECF/ECFw

GENERAL DESCRIPTION



Nystrom's Roof Bellows System is an effective, flexible joint closure for a wide variety of standard and special applications. The ECF cover is 60-mil thick, reinforced EPDM bellows widely used in roof to roof and roof to wall curb applications.

Introduction + Safety

Please read the complete instructions carefully before beginning any work. To ensure proper installation and performance of the product, the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

GENERAL SAFETY PRECAUTIONS Improper selection, installation, or use can cause personal injury or property damage. It is solely the responsibility of the user, through its own analysis to select products suitable for their specific application requirements, ensure they are properly maintained, and limit their use to its intended purpose. Follow proper local, state and federal regulations for proper installation and operation requirements.

Transportation + Storage

- Inspect all shipments and materials for missing or damaged components and hardware.
- Material must be stored in a clean, dry location.

Direct Service Done Right

Since 1948, Nystrom has been the go-to manufacturer of specialty building products providing a wide range of floor, roof, wall, ceiling and stair access products that create safer, more accessible buildings. We offer hassle-free services including access to technical experts, REVIT tools for BIM, HPDs for LEED v4, 3-part specifications and AIA-accredited continuing education courses.

Preparation

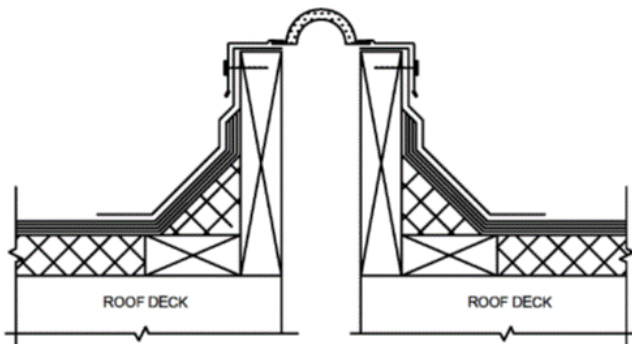
- Locate the packing slip(s) and/or shop drawings.
- Verify that all products listed on the packing slip are included in the package.
- Check the products for damage. If products are damaged, report a freight claim immediately and leave the products in their packaging. If you sign for products without reporting damage you waive your right to a freight claim and will be responsible for their replacement cost.
- Read the instructions thoroughly before beginning installation.

Tool List

- Metal cutting snips
- Chalk line
- Tape measure
- Hammer
- Trowel

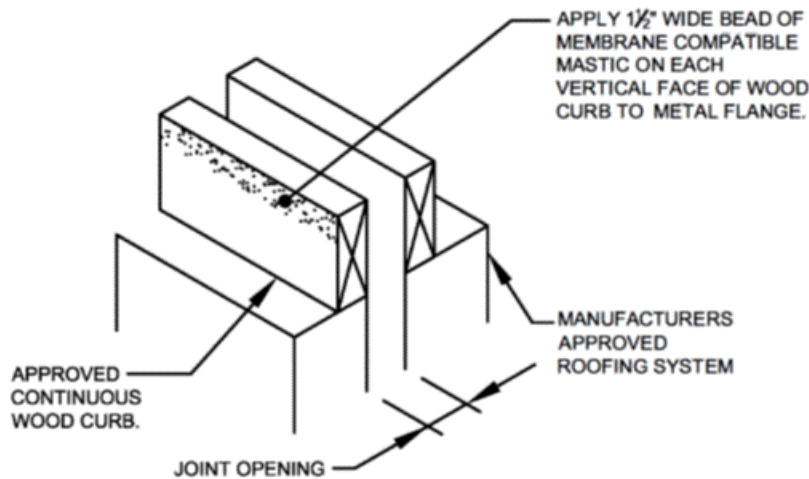
INSTALLATION

ECF – ROOF TO ROOF

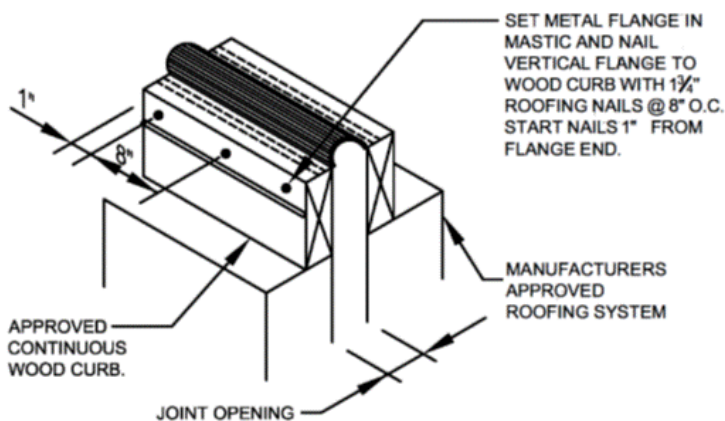


SEE INSTALLATION ADDENDUM 'A' FOR BELLOWS SIZES 18" AND GREATER

STEP 1



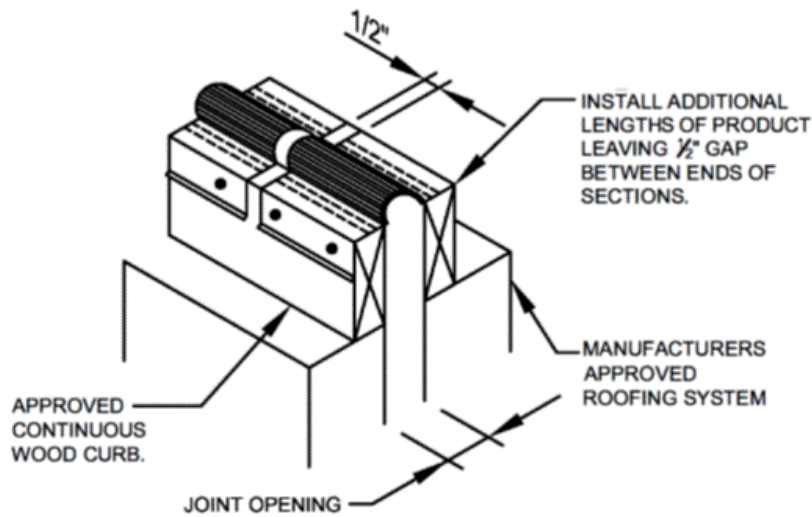
STEP 2



SET FLANGE IN MEMBRANE COMPATIBLE MASTIC AND NAIL TO VERTICAL SURFACE OF ROOF CURB W/ (1) 1½" ROOF NAIL @ 8" O.C. START NAILS 1" FROM FLANGE END.

*REPEAT STEPS 1 AND 2 AS REQUIRED BEING SURE TO PROVIDE ½" GAP BETWEEN ENDS OF PRODUCT SECTIONS. SEE STEP 3.

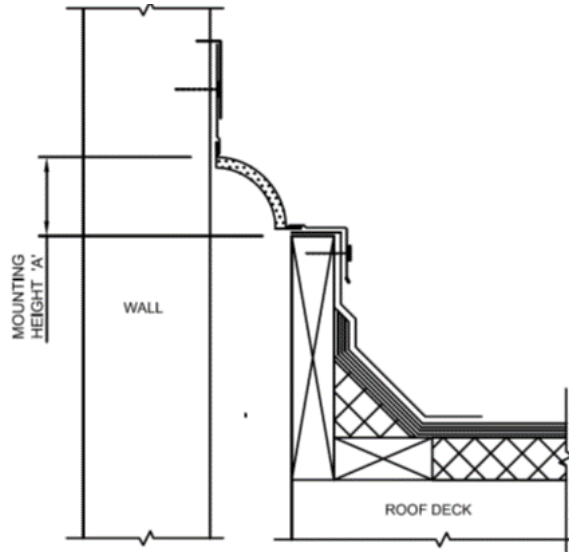
STEP 3



REPEAT STEPS 1 AND 2 FOR REMAINING SECTIONS OF PRODUCT BEING SURE TO PROVIDE 1/2" GAP BETWEEN ENDS OF SECTIONS.

INSTALLATION

ECFw – ROOF TO WALL



SEE INSTALLATION ADDENDUM 'A' FOR BELLOWS SIZES 18" AND GREATER

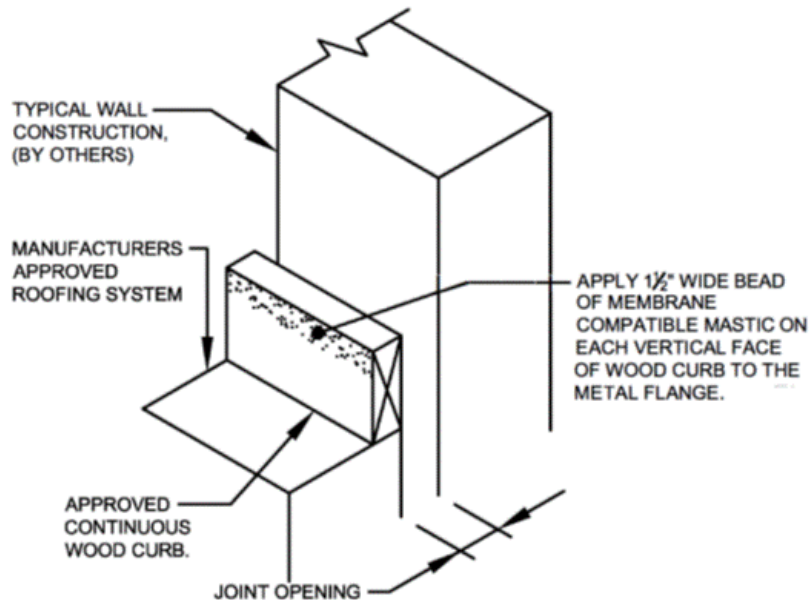
BELLOWS MOUNTING HEIGHT 'A' FOR ROOF TO WALL ATTACHMENT

BELLOWS WIDTH	MOUNTING HEIGHT 'A'
4"	2 1/2"
6"	3 3/4"
8"	5 1/8"
10"	6 3/8"
12"	7 1/2"
14"	8 3/4"
16"	10 1/4"
18"	11 1/2"
20"	12 3/4"
22"	14"
24"	15 1/4"

THE MOUNTING HEIGHT PROVIDED ABOVE ARE APPLICABLE FOR ANY CONDITION IN WHICH THE PRODUCT IS BEING MOUNTED IN A CURB TO WALL CONDITION.

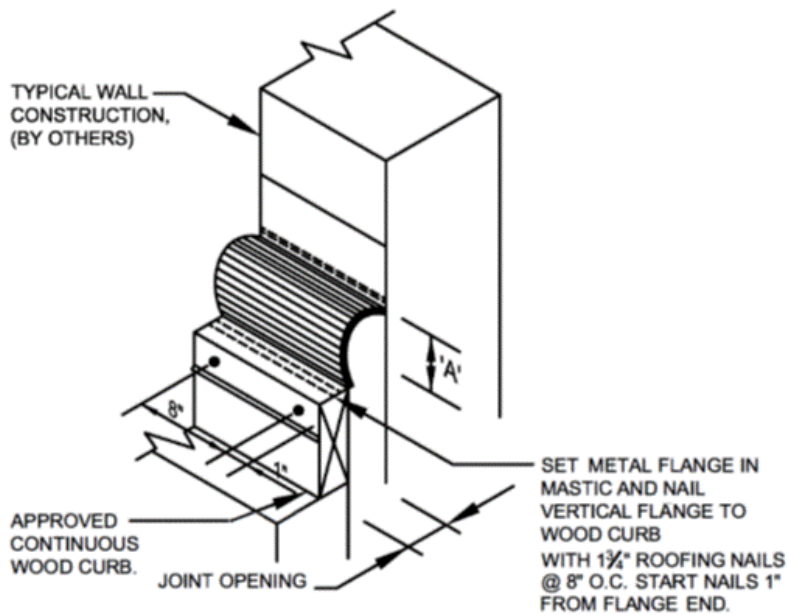
STEP 1

Note: Step 1 not required for EEJ material provided in 10' lengths



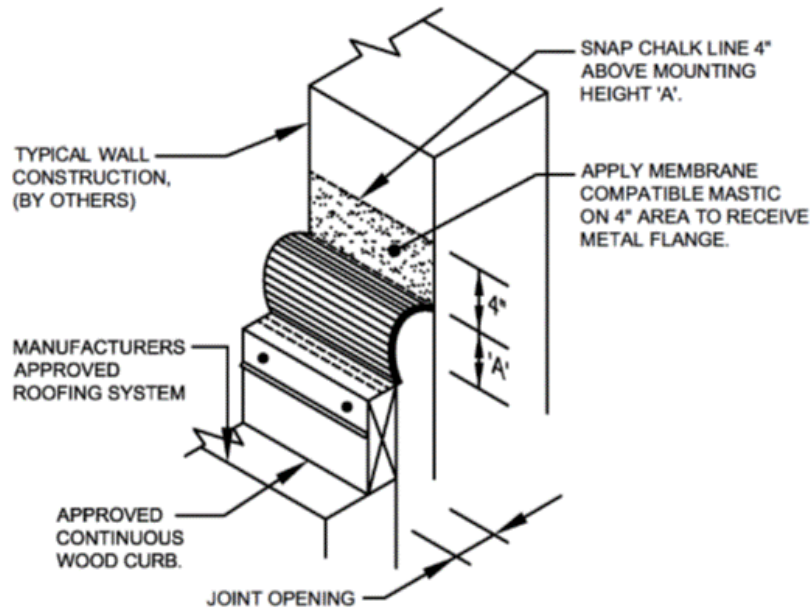
APPLY MEMBRANE COMPATIBLE MASTIC ON HORIZONTAL SURFACE OF ROOF CURB TO RECEIVE THE METAL FLANGE. INSTALL ONE FLANGE AT A TIME

STEP 2



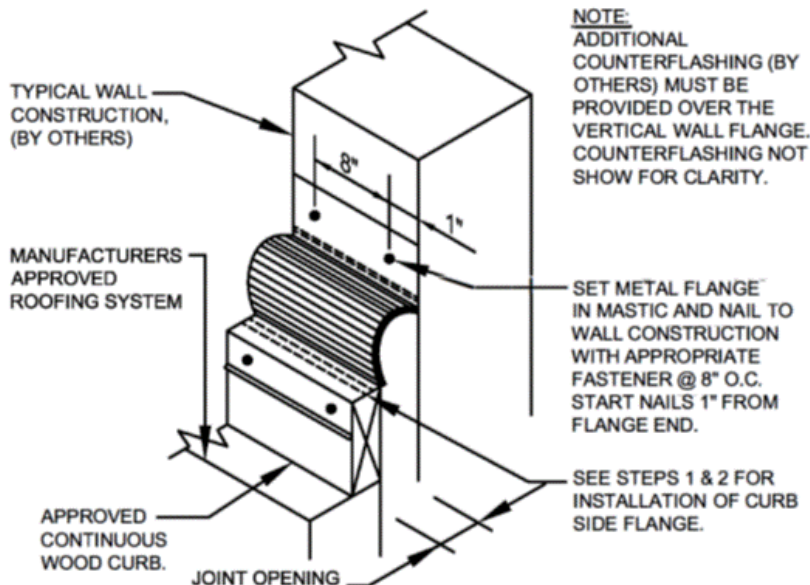
SET FLANGE IN MEMBRANE COMPATIBLE MASTIC AND NAIL TO VERTICAL SURFACE OF ROOF CURB W/ (1) 1¾" ROOF NAIL @ 8" O.C. START NAILS 1" FROM FLANGE END

STEP 3



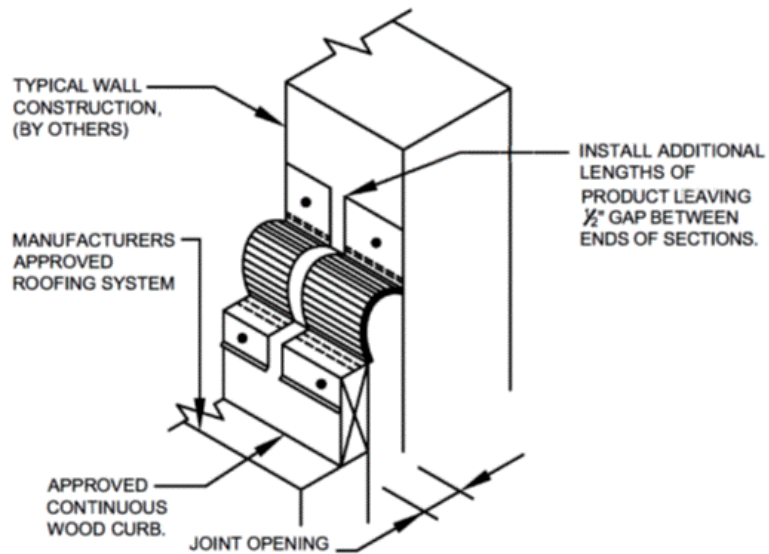
FOLD OVER WALL FLANGE TO GAIN ACCESS TO ATTACHMENT LOCATION. SNAP CHALK LINE 4" ABOVE MOUNTING HEIGHT 'A'. SEE MOUNTING HEIGHT 'A' CHART FOR CORRECT DIMENSION. APPLY MEMBRANE COMPATIBLE MASTIC ON 4" WIDE AREA TO RECEIVE METAL WALL FLANGE.

STEP 4



SET WALL FLANGE IN MEMBRANE COMPATIBLE MASTIC AND NAIL TO WALL CONSTRUCTION W/ (1) APPROPRIATE FASTENER @ 8" O.C. START FASTENERS 1" FROM FLANGE END.

STEP 5

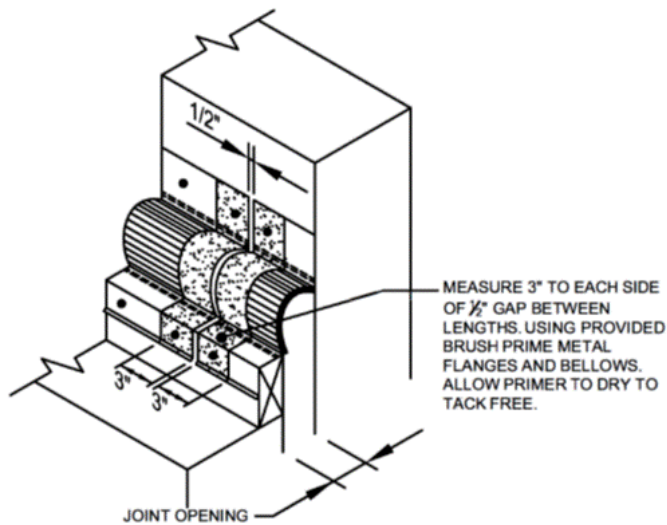


REPEAT STEPS 1 THRU 4
FOR REMAINING SECTIONS,
BEING SURE TO PROVIDE 1/2"
GAP BETWEEN ENDS OF
SECTIONS.

SPLICING INSTRUCTIONS

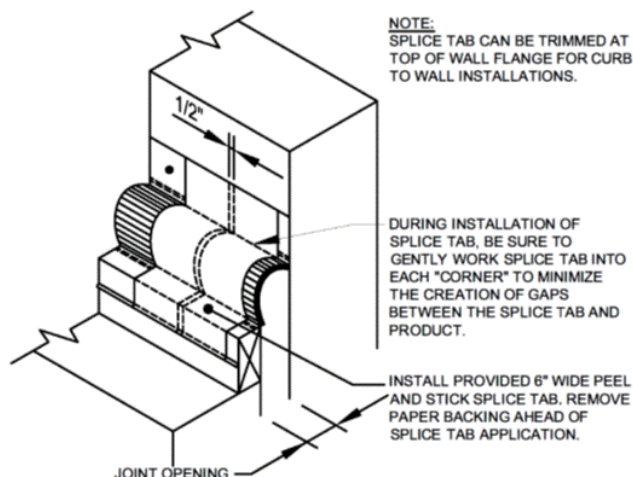
GENERAL NOTES: THESE INSTALLATION INSTRUCTIONS REPRESENT THE CORRECT INSTALLATION PROCEDURE FOR A 6" WIDE SPLICE TAB WHICH IS INCLUDED FOR BELLOWS SIZES 4" THRU 12". THE DIMENSIONS INDICATED IN THESE INSTRUCTIONS MUST BE ADJUSTED ACCORDINGLY FOR BELLOWS SIZES LARGER THAN 12" WHICH WILL INCLUDE A 9" WIDE SPLICE TAB.

STEP 1



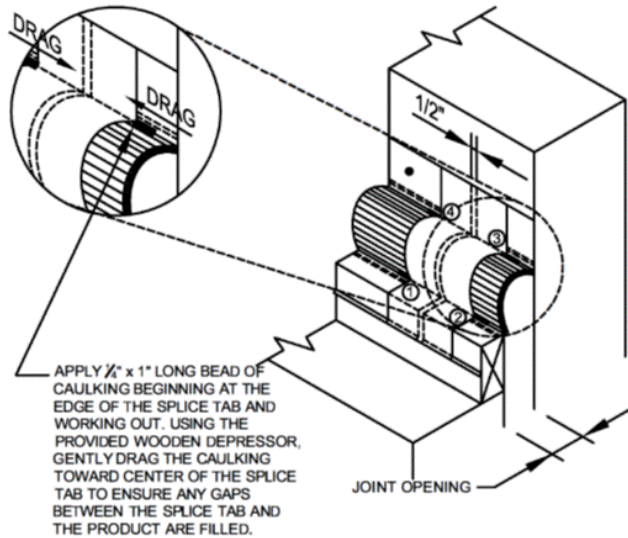
MEASURE 3" TO EACH SIDE OF $\frac{1}{2}$ " GAP BETWEEN LENGTHS. USING PROVIDED BRUSH PRIME METAL FLANGES AND BELLOWS. ALLOW PRIMER TO DRY TO TACK FREE. TYPICAL@ EACH SPLICE LOCATION.

STEP 2



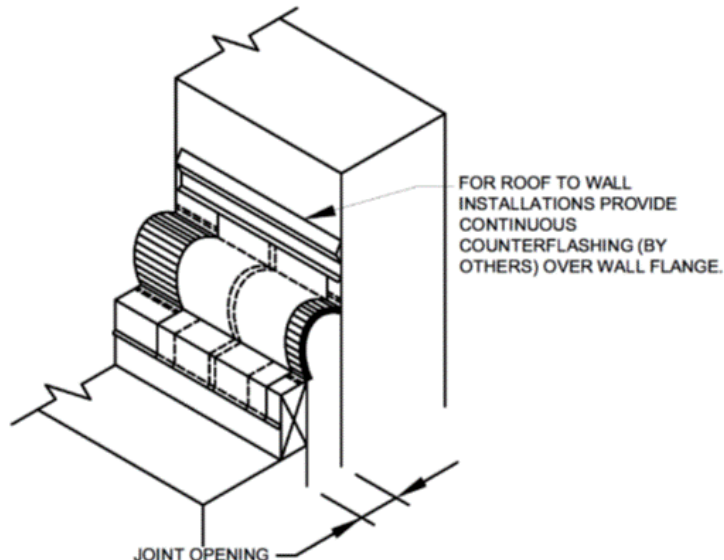
INSTALL PROVIDED 6" WIDE PEEL AND STICK SPLICE TAB. REMOVE PAPER BACKING AHEAD OF SPLICE TAB APPLICATION. AFTER INSTALLATION OF SPLICE TAB BE SURE TO WORK SPLICE TAB INTO EACH BEAD OF CAULK

STEP 3



APPLY $\frac{1}{4}$ " x 1" LONG BEAD OF CAULKING BEGINNING AT THE EDGE OF THE SPLICE TAB AND WORKING OUT. USING THE PROVIDED WOODEN DEPRESSOR, GENTLY DRAG THE CAULKING TOWARD CENTER OF THE SPLICE TAB TO ENSURE ANY GAPS BETWEEN THE SPLICE TAB AND THE PRODUCT ARE FILLED. TYPICAL @ FOUR LOCATION PER SPLICE TAB AND TYPICAL @ EACH SPLICED LOCATION.

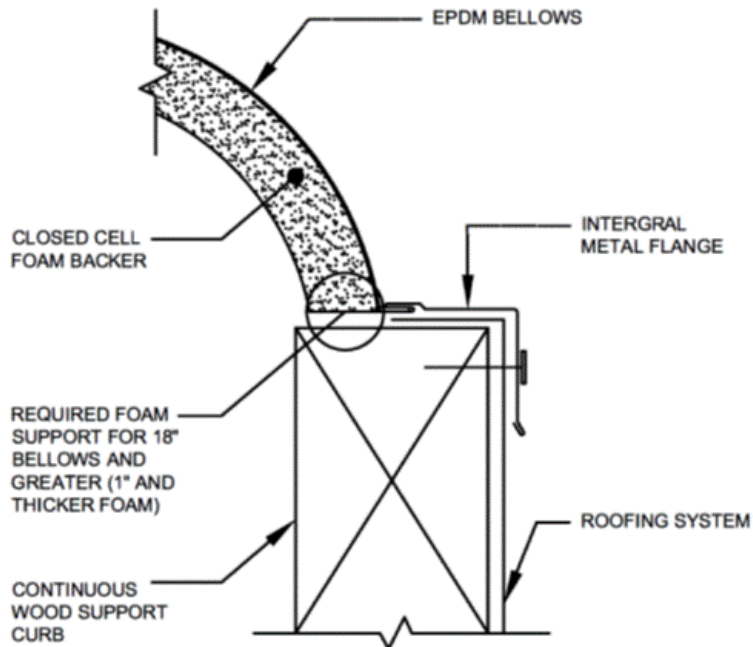
STEP 4



FOR ROOF TO WALL INSTALLATIONS PROVIDE CONTINUOUS COUNTERFLASHING (BY OTHERS) OVER WALL FLANGE.

ADDENDUM 'A'

INSTALLATION ADDENDUM FOR BELLOWS SIZES 18" AND GREATER



INSTALLATION NOTES:

INSTALL ALL FACTORY FABRICATED INTERSECTIONS AND TRANSITIONS FIRST.
FOLLOW THE APPROPRIATE STEPS INCLUDED IN THESE INSTALLATION INSTRUCTION
FOR THESE ITEMS.

LEAVE ½" GAP BETWEEN THE START OF STRAIGHT SECTIONS AND ALL
INTERSECTIONS AND TRANSITIONS.

THE BUILDING/ROOF SURFACES TO WHICH THE PRODUCT IS TO BE INSTALLED
SHOULD BE SMOOTH, CLEAN AND FREE OF ANY DIRT AND DEBRIS.

INSTALL WITH THE FOAM BACKER FACING THE INSIDE OF BUILDING. DO NOT EXPOSE
FOAM TO WEATHER.

SEE SPLICING INSTRUCTIONS ABOVE, FOR TYPICAL

OPERATION

Expansion Joints are designed and built for years of dependable service.

MAINTENANCE

- Annual inspections should be performed to make sure the system is still in position.
Repair and/or replace as needed.

QUESTIONS?

For more information on installation, repair or replacement, please visit nystrom.com