

Sure Cavity™

Rainscreen Technology that Works!



Visit Our Web Site

www.MTIdry.com

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Sure Cavity™ General Installation Guidelines **Stucco, Man-Made Stone, Thin-Veneer Masonry,** **Natural Stone and Brick**

- 1) Install Typar® building wrap (or equivalent wrap) or 2 layers of 30-minute building paper, all window and wall flashings (peel & stick, building wrap, and metal flashings), and windows as per building code and manufacturer's installation instructions prior to the installation of *Sure Cavity™*.
- 2) For bottom course of wall, below window sills, above window headers, and below soffits, a bugscreen is required to stop bugs from penetrating top and bottom cavity.

To create a bug screen, back-wrap the overlapping fabric on *Sure Cavity™* and tape to the non-fabric side of *Sure Cavity™* or staple the face of *Sure Cavity™* to hold the bug screen in place.

Note: After cutting Sure Cavity™, extra fabric may not always be available and attached to Sure Cavity™. If this is the case, use regular 6-10" bugscreen mesh material or landscape fabric by either attaching it with tape to both the front and back sides of Sure Cavity™ or by first stapling bugscreen to wall, then installing Sure Cavity™. Finally, wrap the bugscreen over the face of Sure Cavity™, fastening by taping, stapling, or nailing. Ensure nail/staple position on bug screen mesh does not penetrate flashing.

- 3) Roll out *Sure Cavity™* with channels running vertically (up and down) and fabric facing outwards.
- 4) Staple *Sure Cavity™* to wall using 1/2" or greater staples. Butt new courses of *Sure Cavity™* together. Do not overlap corrugated *Sure Cavity™* material. Do not tape seams.

Note: Overlap fabric of Sure Cavity™ where possible. Overlapping is preferred but not required.

- 5) Run *Sure Cavity™* to within 10-12mm of window sill or sill flashing, window and door header flashing, window trim, and soffit. At bottom course of wall run *Sure Cavity™* 3/4" to 2" overtop of foundation. Bottom trim should extend 1/2" below *Sure Cavity™*.
- 6) Begin installation of stucco or thin veneer masonry (man-made stone, thin natural stone or thin brick veneer). Install 3/4" J-Trim (stucco stop) over top of *Sure Cavity™* at top and over top of *Sure Cavity* at bottom of wall for stucco, man-made stone, and thin veneer masonry applications.
- 7) Begin installation of stucco wire, metal lathe, etc. over top of *Sure Cavity™*.

- A) For stucco applications, install 10mm self-furring stucco wire or wire lathe as per manufacturer's recommendations.

Note 1: Please do not overdrive nails when attaching stucco wire or lathe over Sure Cavity™. Ensure a snug fit with stucco wire/lathe onto Sure Cavity™, but do not overnail.

- B) For man-made stone and thin-veneer masonry, install wire lathe as per manufacturer's directions.

Note: For pneumatic staplers, please use caution when installing lathe over Sure Cavity™

and/or reduce pressure on staple-gun.

- C) For natural full stone and full brick, wire lathe is not necessary. Install natural stone and brick as per code requirements and manufacturer's installation instructions.

For natural stone and full brick use *Cavity Weep™* or *Stone Cavity Weep™* at bottom course of wall and *Wall Opening Weeps™* above window openings in conjunction with *Sure Cavity™*. For more information regarding *Cavity Weep™*, *Stone Cavity Weep™*, and *Wall Opening Weeps™* consult your dealer or visit www.mtidry.com.

Window Installation Notes:

- 1) Install *Sure Cavity™* flush to edges of window jamb openings (left and right sides of window) and to within 10mm of window head flashing, sill flashing, or window trim flashing (for ventilation).

*Note: For flanged windows, consult your window manufacturer for installation guidance. Some window manufacturers and guidelines may require the window flanges to be nailed directly to the building wrap/sheathing while other manufacturers and guidelines will call for a clip/horshoe/pan system or wood furring system behind window flanges and horizontally on sill. Other windows may come pre-drilled at bottom for drainage and clips may not be required behind flanges. If clip or pan system is not available, contact window manufacturer, building official, building envelope engineer, Warranty Provider Rain Screen Details: **A Reference Guide Of Typical Rainscreen Wall and Window Details** and/or the **HPO Building Envelope Guide for Houses** for window installation guidance. Although not required, consider the use of "Sure Cavity Window Drainage Plane" (WDP 5000) as a better practice for sloped drainage and ventilation at window sills. Please note that this method may require more time and attention to detail. For availability and more information regarding WDP 5000, please contact your dealer or visit www.mtidry.com.*

Stucco Wire/Wire Mesh Nailing Schedule:

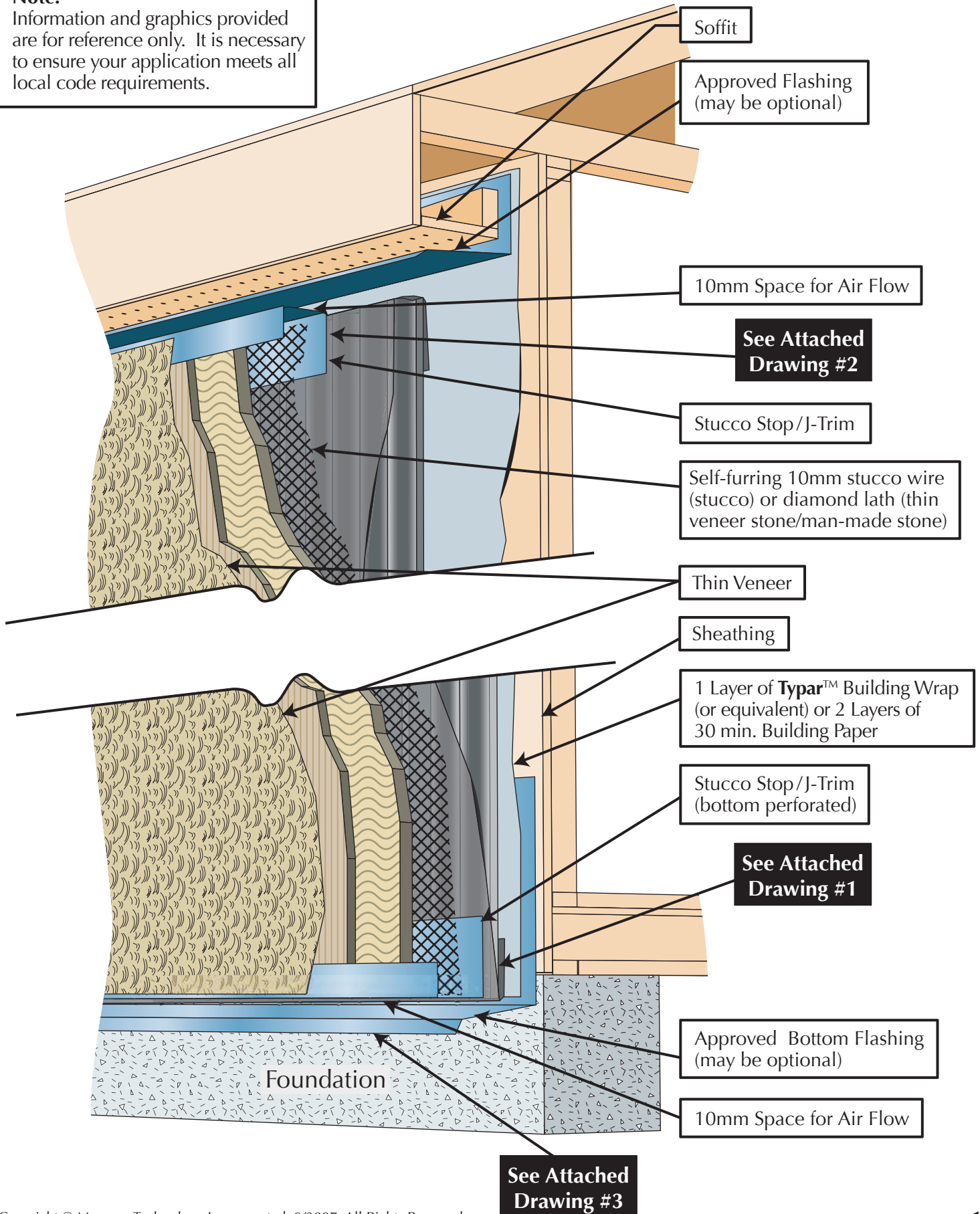
- 1) Nail stucco wire or diamond wire mesh to studs for structural stability. Nails must be at a minimum of 16" on centre and 7" vertically. Consult the Northwest Wall and Ceiling Bureau, ASTM C-1063, or local building code for detailed installation instructions of stucco wire or wire mesh. Ensure that proper fastener is used as per local building code.

NOTE: The preceding information is a guideline only. Please contact your local building inspection department and if applicable the specifying agent prior to installing.

Thin Veneer Application

Note:

Information and graphics provided are for reference only. It is necessary to ensure your application meets all local code requirements.



Soffit

Approved Flashing
(may be optional)

10mm Space for Air Flow

**See Attached
Drawing #2**

Stucco Stop/J-Trim

Self-furring 10mm stucco wire
(stucco) or diamond lath (thin
veneer stone/man-made stone)

Thin Veneer

Sheathing

1 Layer of **Typar™** Building Wrap
(or equivalent) or 2 Layers of
30 min. Building Paper

Stucco Stop/J-Trim
(bottom perforated)

**See Attached
Drawing #1**

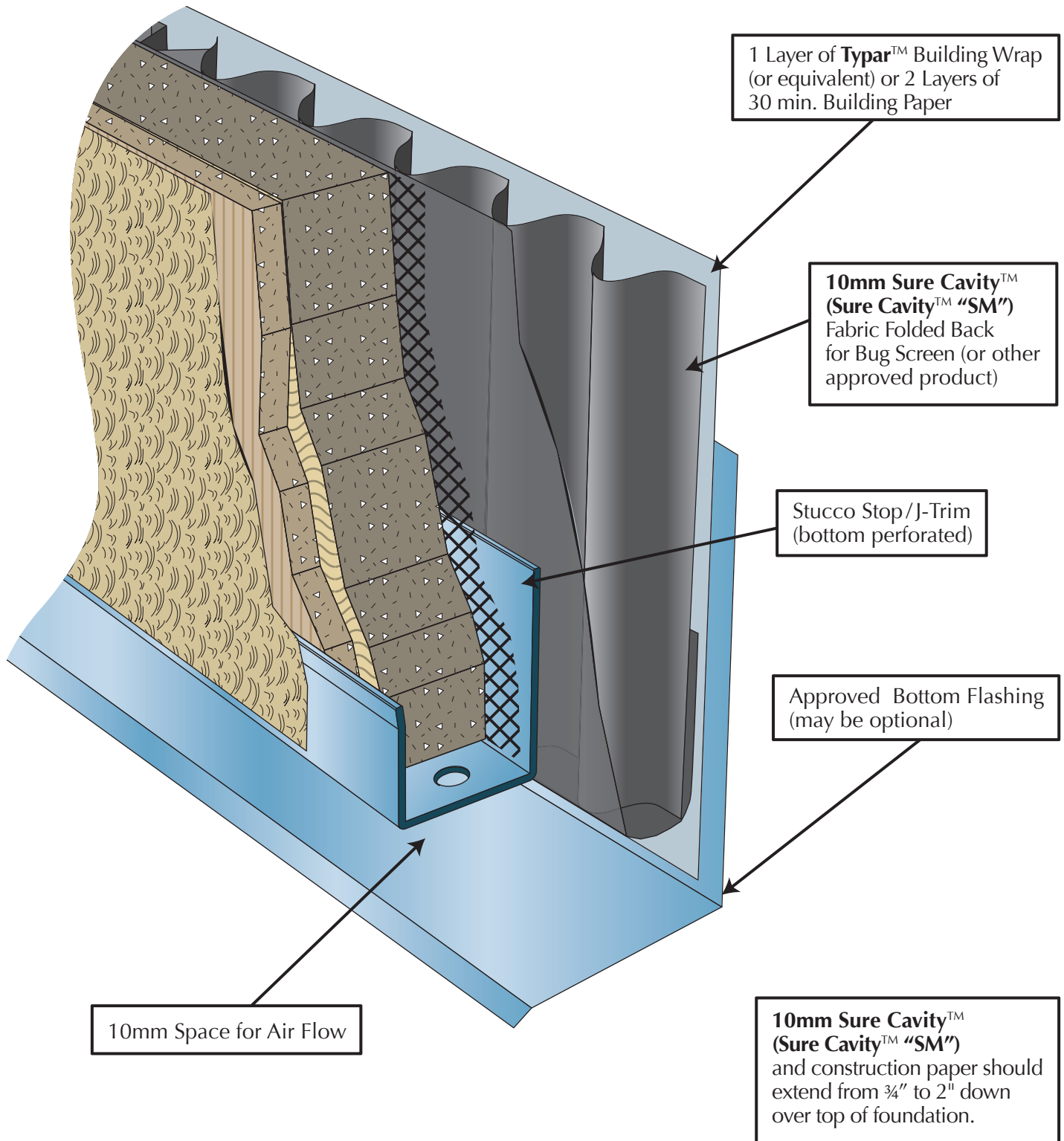
Approved Bottom Flashing
(may be optional)

10mm Space for Air Flow

**See Attached
Drawing #3**

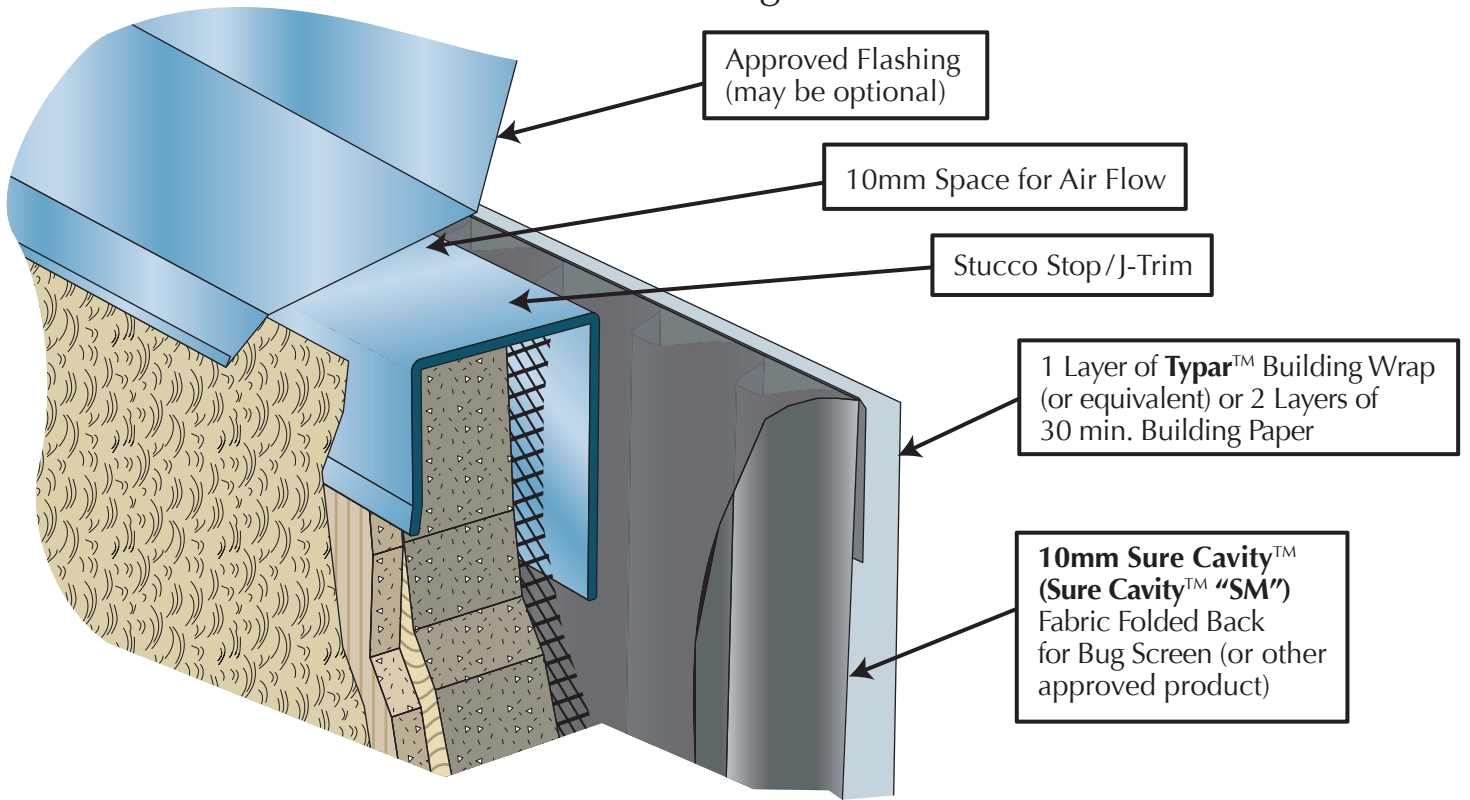
Bottom of Wall Detail

Drawing #1



Top of Wall Detail

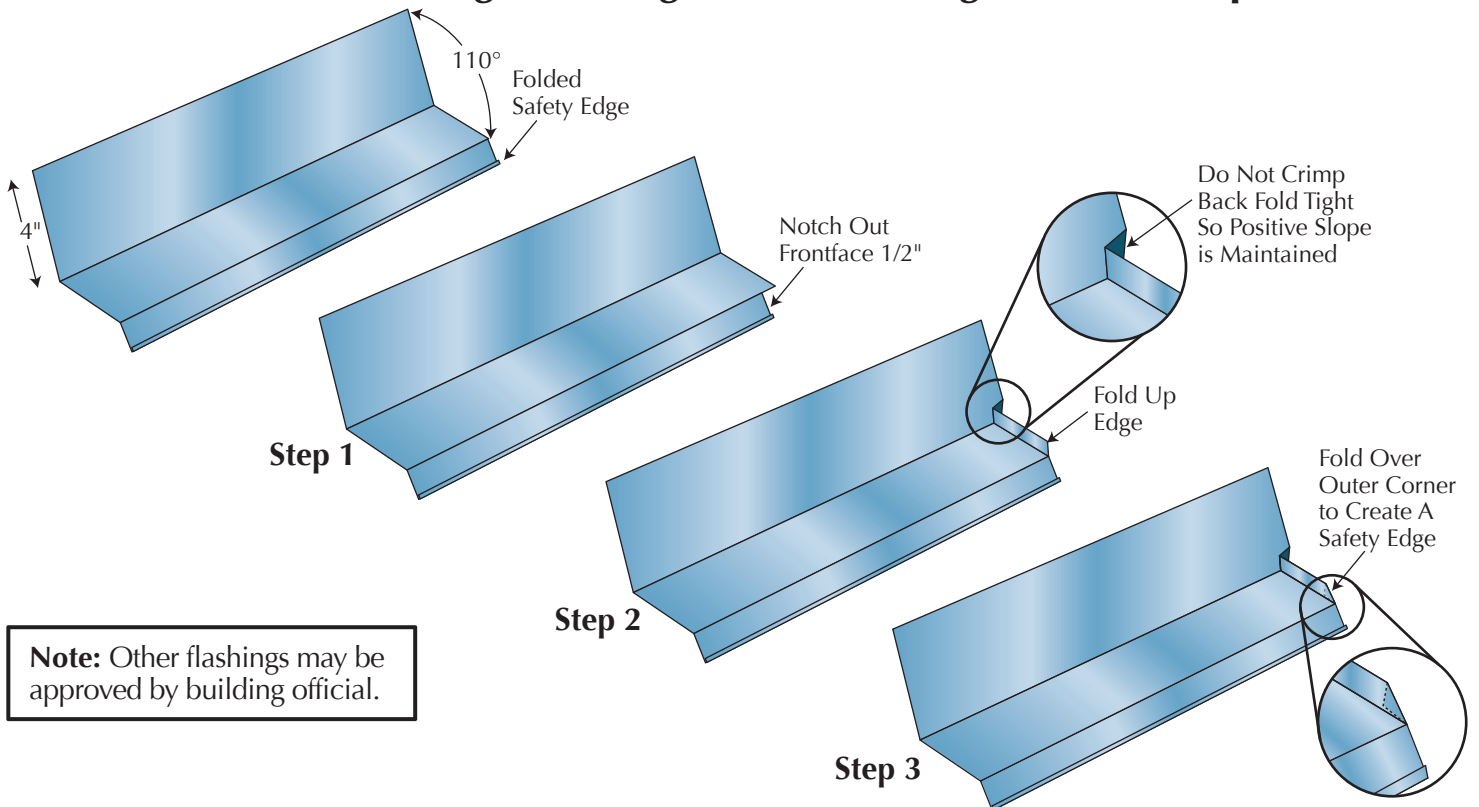
Drawing #2



Approved Window Header Flashing

Drawing #3

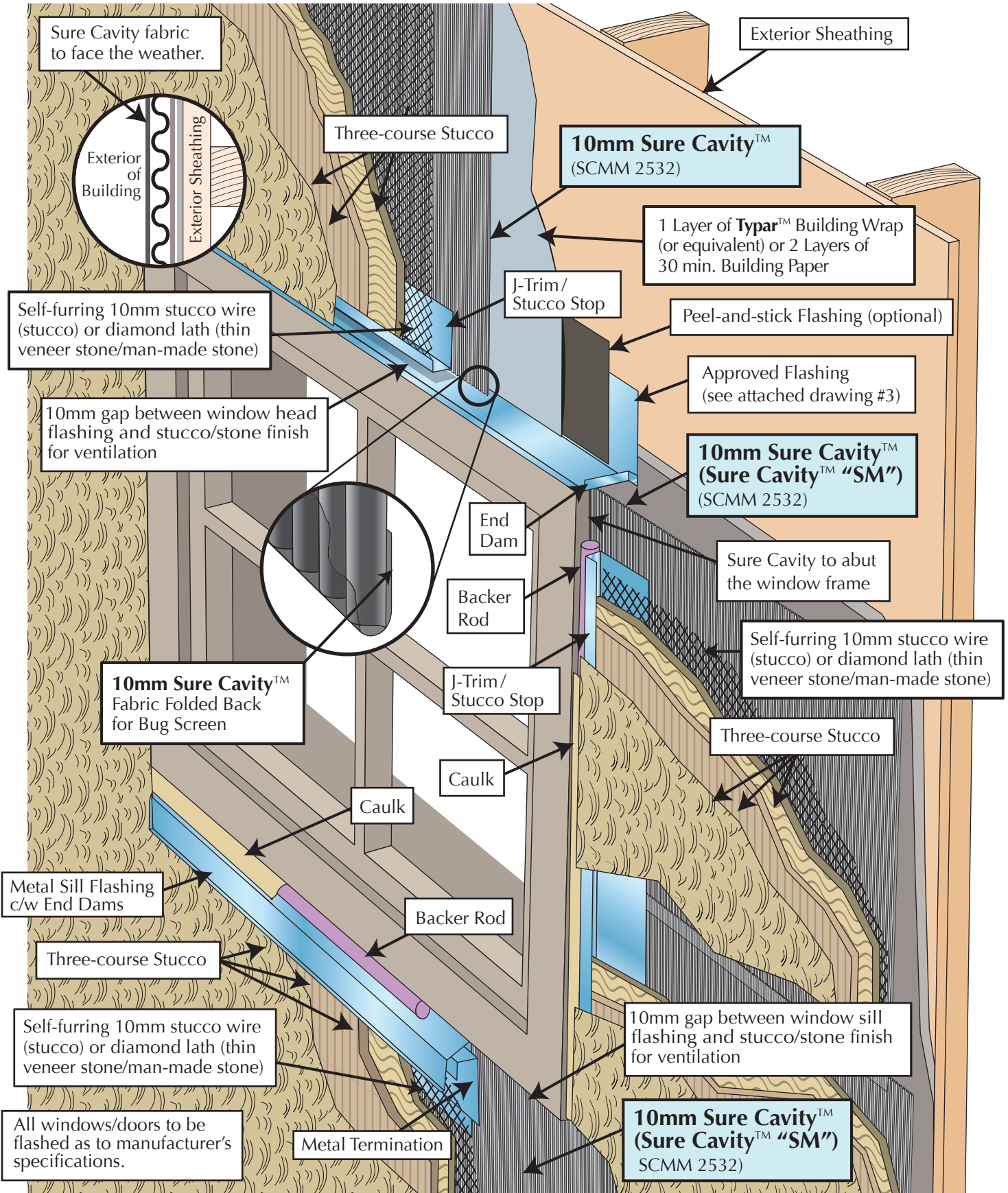
Prefinished 26ga Flashing with 4" Backleg and 110° Slope



Note: Other flashings may be approved by building official.

Thin Veneer to Window Termination Installation

10mm Sure Cavity™ (Sure Cavity™ "SM") (SCMM 2532)



Actual dimensions of window flashing may vary depending on application. Please ensure all flashings are designed to fit on site and meet code requirements.



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