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This report is subject to re-examination in one year.

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DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07650—Flexible Flashings

DIVISION: 15—MECHANICAL
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REPORT HOLDER:

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EVALUATION SUBJECT:

NEVA-CALK™ AND SUPER NEO-POLY™ ROOF FLASHINGS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Properties evaluated:

- Durability
- Water resistance

2.0 USES

Neva-Calk™ and Super Neo-Poly™ Roof Flashings are prefabricated products used as flashing at roof penetrations of pipes on roofs with asphalt shingle roof coverings in compliance with the applicable code, to prevent moisture from penetrating the roof in non-fire-resistance-rated construction.

3.0 DESCRIPTION

3.1 General:

Neva-Calk™ Roof Flashings consist of an injection-molded thermoplastic elastomer (TPE) collar complying with ASTM D 2240-05, that is mechanically attached to a code-complying metal base. The pipe flashings are available in series with metal bases of aluminum (ANC), copper (CNC) or galvanized steel (GNC) to fit nominal pipe diameter sizes of $1^1/_4$ inches to $1^1/_2$ inches (32 to 38 mm), 2 inches (51 mm), 3 inches (76 mm) and 4 inches (102 mm). The pipe flashings are also available in Multi-Fit™ models with metal bases of aluminum (AN), copper (CN) or galvanized steel (GN) to fit nominal pipe diameters of $1^1/_2$, 2 and 3 inches (38, 51 and 76 mm), and 3 to 4 inches (76 to 102 mm). See Figure 1 and Table 1 of this report for an illustration and dimensions of the different flashing series and models.

3.1.1 ANC and AN Series: The Neva-Calk™ ANC and AN series collar is attached to a minimum 0.025-inch-thick (0.635 mm) base manufactured from 1100-0 or 3003-0 alloy aluminum complying with ASTM B 209.

3.1.2 CNC and CN Series: The Neva-Calk™ CNC and CN series collar is attached to a 16-ounce-per-square-foot (0.09 m^2), 0.0216-inch-thick (0.549 mm) base manufactured from copper complying with ASTM B 370.

3.1.3 GNC and GN Series: The Neva-Calk™ GNC and GN series collar is attached to a minimum 26 gage [0.019-inch-thick (0.483 mm)] base manufactured from G90 hot-dipped galvanized steel complying with ASTM A 653.

3.2 General:

Super Neo-Poly™ Roof Flashings consist of a thermoplastic elastomer (TPE) collar complying with ASTM D 2240-05, mechanically attached to a polypropylene (PP) base complying with ASTM D 1238-04c. See Figure 1 and Table 1 for an illustration and dimensions of the different models.

3.2.1 Super Neo-Poly™ SNPF Series: The flashings are available in models to fit nominal pipe diameters of $1^1/_4$ to $1^1/_2$ inches (32 to 38 mm), 2 inches (51 mm), 3 inches (76 mm) and 4 inches (102 mm).

3.2.2 Super Neo-Poly™ SNP Series: The flashings are available in models to fit nominal pipe diameters of $1^1/_2$, 2 and 3 inches (38, 51 and 76 mm), and 3 to 4 inches (76 to 102 mm).

4.0 INSTALLATION

Installation of the Neva-Calk™ or Super Neo-Poly™ Roof Flashings must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

After removal of any sharp edges on the top of the pipe, the pipe flashing collar is placed over the top of the pipe and slid down until flush with the roof underlayment. The longer side of the pipe flashing base must be installed on the high side of the roof with the roof shingles overlapping the top of the flashing base. The roof shingles must overlap the sides of the flashing base by a minimum of $1^1/_2$ inches (38 mm), for one-quarter to one-half the length of the flashing base. The bottom edge of the flashing base must overlap the roof shingles by a minimum of $1^1/_2$ inches (38 mm). The flashing base must be fastened at all corners and at 4 to 6 inches (102 to 152 mm) on center on all sides with minimum No. 11 gage [0.120-inch (3.0 mm)], $^3/_8$-inch-diameter-head (9.5 mm), corrosion-resistant nails. Fasteners must be of sufficient length to penetrate $^3/_4$ inch (19.1 mm) into the sheathing, or through the sheathing, whichever is less. Silicone sealant conforming to ASTM C 920 may be used on the underside of the flashing base and exposed ends of the fasteners.

5.0 CONDITIONS OF USE

The Neverleak Company Neva-Calk™ and Super Neo-Poly™ Roof Flashings described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with this report, the manufacturer's published installation instructions and the applicable code. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.

5.2 Neva-Calk™ and Super Neo-Poly™ Roof Flashings are limited to installations in non-fire-resistance-rated construction on roofs with asphalt shingle roof coverings in compliance with the applicable code

5.3 Neva-Calk™ and Super Neo-Poly™ Roof Flashings must not be used with petroleum-based mastics.

5.4 Neva-Calk™ Roof Flashings must not be installed on roof slopes of less than 4:12 (33.3 percent) or greater than 10:12 (83.3 percent). Super Neo-Poly™ Roof Flashings must not be installed on roof slopes of less than 4:12 (33.3 percent) or greater than 15:12 (1.25 percent).

5.5 Neva-Calk™ Roof Flashings are limited to use with plumbing, gas or electrical pipe roof penetrations.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Roof Flashing for Pipe Penetrations (AC286), dated August 2007.

7.0 IDENTIFICATION

Each Neva-Calk™ or Super Neo-Poly™ Roof Flashing described in this report must be identified by a stamp bearing the manufacturer's name (Neverleak), the product name and the evaluation report number (ESR-1987).

TABLE 1—PRODUCT DIMENSIONS

PRODUCT (SERIES)	MODEL NUMBER	NOMINAL PIPE DIAMETER (inches)	BASE SIZE (inches)
Neva-Calk™ (ANC, CNC and GNC)	15	$1^1/_4$ to $1^1/_2$	$8^3/_4$ x $12^5/_8$
	20	2	$8^3/_4$ x $12^5/_8$
	30	3	$10^3/_4$ x $14^1/_2$
	40	4	$11^3/_4$ x $15^1/_2$
Neva-Calk™ (Multi-Fit™) (AN, CN and GN)	123	$1^1/_2$, 2 and 3	$10^3/_4$ x $14^1/_2$
	340	3 to 4	$11^3/_4$ x $15^1/_2$
Super Neo-Poly™ (SNPF)	15	$1^1/_4$ to $1^1/_2$	$8^7/_8$x $11^3/_4$
	20	2	$8^7/_8$x $11^3/_4$
	30	3	$10^3/_4$ x $13^5/_8$
	40	4	$12^7/_{16}$ x $15^3/_8$
Super Neo-Poly™ (SNP)	123	$1^1/_2$, 2 and 3	$10^3/_4$ x $13^5/_8$
	340	3 to 4	$12^7/_{16}$ x $15^3/_8$

For **SI:** 1 inch = 25.4 mm.