

HEAT SHRINK RUBBER COLLAR FLASHING





HEAT-SHRINK RUBBER COLLAR FLASHING

FOR FALL PROTECTION SAFETY & TIE-BACK ANCHORS

DESCRIPTION

Pro-Bel Heat-Shrink Rubber Collar Flashing is a two-step method of sealing the top of a Pro-Bel PBE Series safety roof anchor which is used for suspended maintenance work. The rubber collar is a heavy wall standard tubing which is used extensively in the electrical industry for buried power cable connections.

After the Pro-Bel spun aluminum flashing has been placed over the Pro-Bel roof anchor, the first step involves wrapping a mastic sealant tape around the junction of the aluminum flashing and the steel anchor. The second step then involves sliding the black heat-shrink rubber tubing over the mastic and torching it permanently into place.

The resulting flashing collar is extremely reliable. A superior watertight seal is achieved via the mastic sealant tape (hot melt adhesive) in combination with the heat-shrink rubber collar which also has its own adhesive liner. The adhesives flow when heated to provide a void-filling function, and set when cooled. The mastic sealant tape is provided with protective release paper on both sides which is peeled away just prior to use.



Collar flashing components: mastic sealant tape and heavy wall rubber tubing with its own integral adhesive liner.

USE

For sealing the top of a Pro-Bel PBE type roof anchor employing a spun aluminum flashing.

For built-up (BUR) and modified bitumen roofs only (membrane above or below insulation). For other type roofs, consult Pro-Bel for recommendations.



Pro-Bel PBE Series roof anchor with heatshrink rubber collar flashing.

STANDARDS AND APPROVALS

(Heat-Shrink Rubber Collar Flashing)

UL listed per 486D (file E91151) and 96J4.

Certified to CSA C22.2.

Qualified to ANSI C119.1-1986.

Rated to Western Underground Guide 2.5.

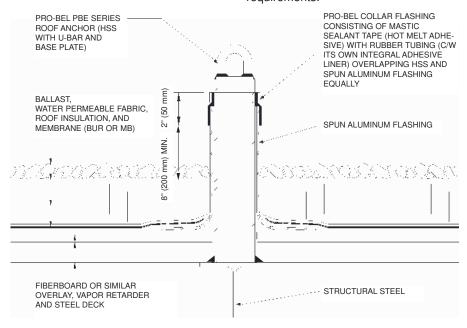
RUS listed for use as a secondary lap or splice cover, and for use as jacket restoration materials on JCN cable.

WARRANTY

Warranty is in accordance with standard Pro-Bel Guarantee/Warranty terms and conditions of sale. Copy available upon request.

MAINTENANCE

No maintenance is required, however collar flashings should be inspected along with all other roof flashings in accordance with NRCA or CRCA preventative roof maintenance inspection requirements.



SECTION DETAIL - PROTECTED MEMBRANE (INVERTED) ROOF

(BUR or Modified Bitumen Membrane Below Insulation. Steel Deck Shown. Concrete Deck Similar).



INSTALLATION



1. Before the roof membrane has been applied, place spun aluminum flashing over HSS roof anchor and roof insulation (or fiberboard or other type overlay).



2. Wrap mastic sealant tape around both HSS and spun aluminum, overlapping both equally. If small hole with plug near top of HSS is exposed, seal with silicone sealant (hole is used for galvanizing process).



3. Slide black heat-shrink rubber tubing over top of HSS anchor, neatly covering the mastic sealant tape.



4. Using standard roofer's torch, heat rubber tubing lightly and evenly with rapid brushing motion. Keep flame moving to avoid scorching or over-shrinking. Work flame around all sides, applying uniform heat. Re-heat any flat spots or wrinkles. Note: If over-shrinking occurs and rubber splits, replace tubing.

TECHNICAL DATA (Physical Properties)

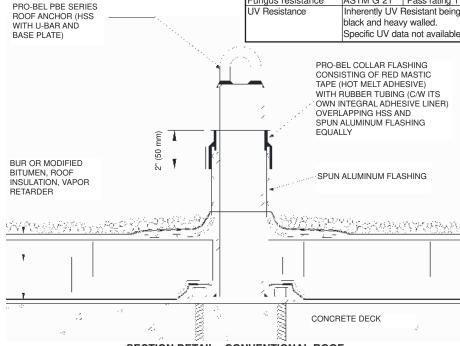
Mastic Sealant Tape

| Property | Method | Result | | | | | |
|----------------------|-------------|----------------------|--|--|--|--|--|
| Softening Point | ASTM E 28 | 70°C min. | | | | | |
| Adhesive peel | | | | | | | |
| strength: | | | | | | | |
| Polyethylene | | 1 lb/in min. | | | | | |
| Steel | | 2 lb/in min. | | | | | |
| Aluminum | | | | | | | |
| Copper | | | | | | | |
| Low-temperature | ASTM D 2671 | No cracking | | | | | |
| flexibility (4 hours | | (-40 C±3°C) | | | | | |
| at temperature | | | | | | | |
| indicated) | | | | | | | |
| Dielectric strength | ASTM D 149 | 300 V/mil | | | | | |
| (0.04 inch) | | min. | | | | | |
| Volume resistivity | ASTM D 257 | 1 x 10 ¹⁰ | | | | | |
| | | ohm-cm min. | | | | | |
| Tracking and erosion | ASTM D 2303 | | | | | | |
| resistance | | | | | | | |
| Corrosive effect | ASTM D 2671 | No corrosion | | | | | |
| (16 hours at 121° | | | | | | | |
| ± 2° C) | | | | | | | |
| Fungus resistance | ASTM G 21 | Pass rating 1 | | | | | |

Note: Blank space indicates that property was not measured during product qualification.

Heavy Wall Rubber Tubing

| Property | Met | ho | d | | Result |
|--------------------------|---|----|---|------|----------------------|
| Tensile strength | AST | Μ | D | 412 | 1750 psi min. |
| Ultimate elongation | AST | Μ | D | 412 | 350% min. |
| Accelerated aging | AST | Μ | D | 2671 | |
| (168 hrs at 150 ± 2° C) |) | | | | |
| Tensile strength | AST | Μ | D | 412 | 1750 psi min. |
| Ultimate elongation | AST | Μ | D | 412 | 350% min. |
| Low-temperature | AST | Μ | D | 2671 | No cracking |
| flexibility (4 hours at | | | | | (-55° C) |
| temperature indicated) | | | | | |
| Flammability | | | | 2671 | |
| Dielectric strength | AST | Μ | D | 149 | 430 V/mil min. |
| | | | | | (at 0.04 inch) |
| Volume resistivity | AST | Μ | D | 257 | 1 x 10 ¹² |
| | | | | | ohm-cm min. |
| Resistance to liquids | AST | Μ | D | 543 | X |
| Transformer oil to | | | | | |
| VDE 0370 | | | | | |
| Lubricating oil (30 wt.) | AST | Μ | D | 543 | X |
| Aviation fuel (JP-4) | AST | Μ | D | 543 | X |
| Diesel fuel #2 | AST | Μ | D | 543 | X |
| Leaded gasoline | AST | Μ | D | 543 | X |
| (89 octane) | | | | | |
| Hydraulic fluid | AST | Μ | D | 543 | X |
| (MIL-H-5606) | | | | | |
| Tensile strength | AST | Μ | D | 412 | 1450 psi min. |
| Ultimate elongation | AST | Μ | D | 412 | 300% min. |
| Corrosive effect | AST | Μ | D | 2671 | No corrosion |
| (16 hours at 150 ± 2° C) | | | | | |
| Fungus resistance | AST | | | | Pass rating 1 |
| UV Resistance | Inherently UV Resistant being black and heavy walled. | | | | |
| | | | | | |
| | Specific UV data not available | | | | |



SECTION DETAIL - CONVENTIONAL ROOF

(BUR or Modified Bitumen Membrane Above Insulation. Concrete Deck Shown. Steel Deck Similar)

YOUR SUSPENDED EQUIPMENT & FALL PROTECTION

TO FIND ADDITIONAL PRO-BEL LOCATIONS IN YOUR AREA PLEASE VISIT OUR WEBSITE...

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