



# AIR/VAPOR BARRIER – THRU WALL FLASHING

## 1. PRODUCT NAME:

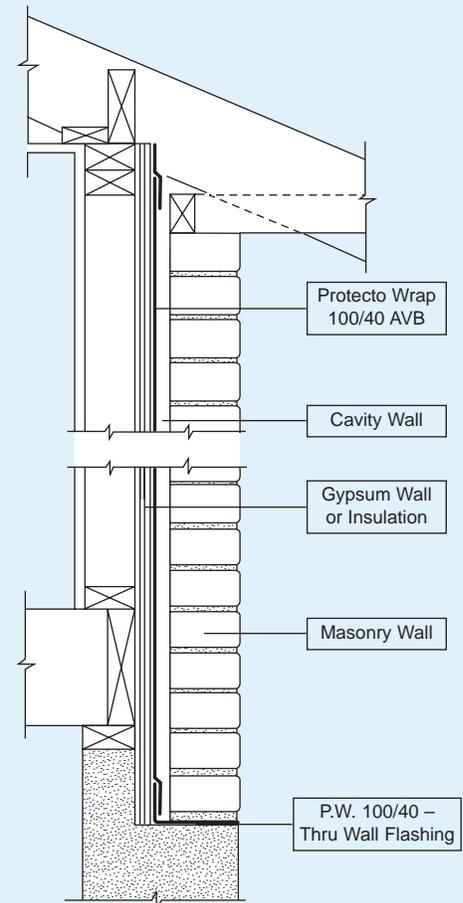
P.W. 100/40 Air/Vapor Barrier – Thru Wall Flashing

## 2. DESCRIPTION

Protecto Wrap Company's P.W. 100/40 Air/Vapor Barrier – Thru Wall Flashing is a peel and stick membrane for use as a positive air/vapor stop in everyday construction. Our product, P.W. 100/40, is a 40 mil SBS modified rubberized asphalt sheet waterproofing membrane that fully bonds to most substrates through the primer course. It is a white, polyethylene-topped, membrane that has excellent conforming capabilities to irregular surfaces. P.W. 100/40 is compatible with and will adhere to steel, wood, concrete, building paper, block wall, dry wall and insulation board. P.W. 100/40's paper release backing, and the variety of roll widths, contributes to the ease of application. There are multiple uses that utilize the aggressive adhesive characteristics of the membrane, some include:

- As a Thru Wall Flashing
- As a full building wrap in envelope applications in cavity wall construction
- Sealing window and door perimeters to the building substrates
- Sealing around skylights
- As a vapor barrier in mechanically fastened roofing systems
- Sealing joints in exterior gypsum board
- Sealing joints in outsilation systems
- Sealing penetrations in roof and wall systems

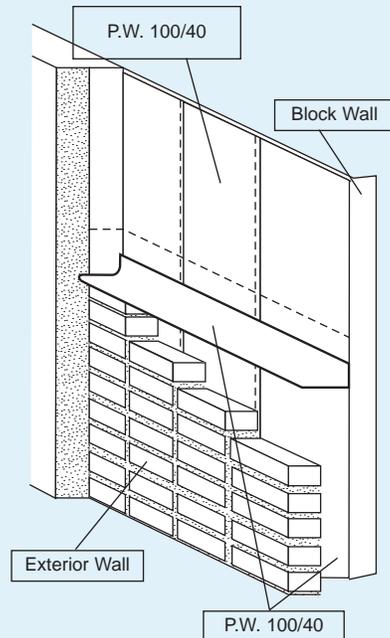
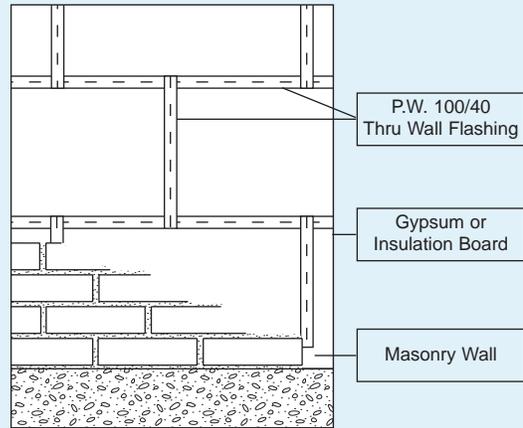
PROTECTO WRAP 100/40  
AIR/VAPOR BARRIER – THRU WALL FLASHING

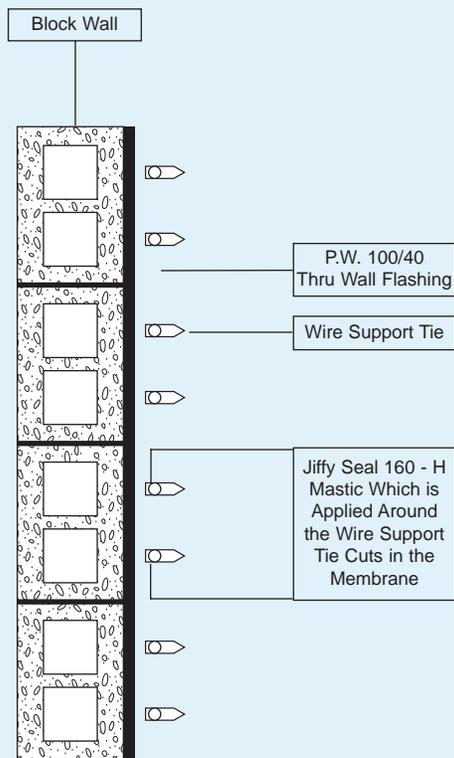
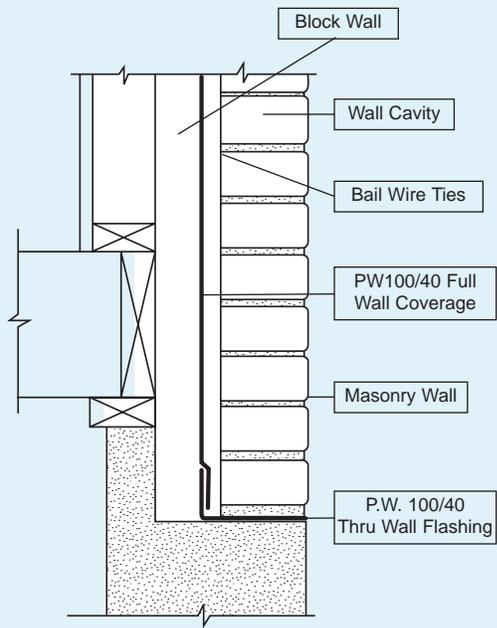


### 3. PROPERTIES:

Property	Value	Test Method
Color	Dark Grey	N.A.
Pliability 180° bendover 25 mm (1') mandrel at -32°C (-25°F)	Unaffected	ASTM D146
Tensile Strength — Membrane (MPa)	1.7 min. (250 psi)	ASTM D412 (Die C) modified
Elongation — Ultimate failure of rubberized asphalt (%)	300 min.	ASTM D412 (Die C) modified
Cycling over crack at -26°C (-15°F)	No effect 100 Cycles	See Footnote 1
Cycling over 25 mm (1") joint at -26°C (-15°F)	No effect 1,000 Cycles	See Footnote 1
Peel Adhesion (N/mm width) 28 days wet (submerged aging)	0.822 min. (4.7 lb/inch)	See Footnote 2
Puncture resistance (N) PERM-A-BARRIER (stretched by blunt object)	178 min (40 lbs.)	ASTM E154

#### PROTECTO WRAP 100/40 SEAM SEALING





Property	Value	Test Method
Puncture resistance — polyethylene film (mm N Tear) (impact from sharp object)	1,746.25 min. (250 in oz.)	ASTM D781
Air Permeance of 'In Place' System (Pressure difference of 75 Pascals)	Less than .01 l/s/m <sup>2</sup> (.25 cfm/ft <sup>2</sup> )	ASTM E283-83 See Footnote 3
Resistance to 2 KPa Air Pressure Difference	No increase in equivalent leakage area	ASTM E283-83 See Footnote 3
Permeance — Metric Perms	0.517 max. (0.009 Perms)	ASTM E96 Method B
Water Absorption — 72 hours (% of weight)	0.25 max.	ASTM D1228

**Footnotes:**

1. Membrane is applied across two primed blocks with no separation between blocks. At -26°C (-15°F), blocks are pulled apart to 6 mm (1/4"), then returned to original position. Cycle is repeated 100 times. For joint cycling, the blocks are double covered with membrane separated by 25 mm (1") then cycled at -26° (-15°F) between 19 mm and 32 mm (3/4" and 1 1/4") a minimum of 1,000 cycles.
2. Membrane is applied to primed blocks and rolled. Blocks are then stored for 28 days under water. Membrane is then peeled from the concrete at a 90° angle.
3. Membrane is adhered to concrete block wall and penetrated by mechanical fasteners. System is tested with both positive and negative pressure differentials. (Independent certified laboratory test figures.)

## 4. APPLICATION:

Surfaces should be clean, dry and free of dirt and other foreign matter. P.W. 100/40 should be applied at a temperature above 40°F (5°C). For application below this temperature, consult with Protecto Wrap Company.

Prime the area to be sealed with #100 Primer and allow to dry to a tacky state. Unroll P.W. 100/40 to the desired length and begin applying the membrane by removing the release paper and smoothing into place. A bead of Protecto Wrap SBS Mastic should be applied over any brick tie cuts and at all membrane terminations.

Note: It is very important in full coverage envelope applications that the P.W. 100/40 is tightly sealed into roofing and below grade waterproofing systems and perimeter flashings to retain the integrity of the vapor barrier throughout the entire structure. In full building envelope applications, the dew point must be engineered to the outside of the building.

In addition, Protecto Wrap #6000 Water Based Primer may be used in lieu of #100 Primer when application temperatures are above 50°F. The #6000 Primer complies with all federal Volatile Organic Compound (VOC) regulations and contains no harmful VOC's.

Side laps should be a minimum of 2", end laps should be 4". All membrane terminations should be sealed with a 1" wide troweled bead of JS 160-H Mastic.

For more information or for help in choosing the correct Protecto Wrap product for your application, please contact our technical department.

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For more information contact:



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