

## M1V HIGH-PERFORMANCE REFLECTIVE INSULATION

### INSULATION | VAPOR BARRIER

A 4 mm reflective insulating vapor barrier consisting of one ply of air bubbles, laminated between one metallized polyethylene sheet and one white polyethylene sheet.

- Installs quickly, easily and provides an excellent R-value
- Reduces condensation, air infiltration, and energy costs

#### PRODUCT PURPOSE

|               |            |          |
|---------------|------------|----------|
| Application   | Insulation |          |
| Building Part | Roofs      | Walls    |
|               | Floors     | Ceilings |
|               | Other      |          |

#### PRODUCT CHARACTERISTICS

|                       |                                    |               |
|-----------------------|------------------------------------|---------------|
| Surface               | Metallized polyethylene            |               |
| Underface             | White polyethylene                 |               |
| Installation Method   | Stapled                            | Adhesive tape |
| Operating temperature | -45 °C to 82 °C (-50 °F to 180 °F) |               |

#### PACKAGING

| Code  | Width |    | Length |        | Gross area     |                 |
|-------|-------|----|--------|--------|----------------|-----------------|
|       | m     | ft | m      | ft     | m <sup>2</sup> | ft <sup>2</sup> |
| 55054 | 1.22  | 4  | 19.05  | 62.50  | 23.24          | 250             |
| 55006 | 1.22  | 4  | 38.10  | 125.00 | 46.48          | 500             |
| 55021 | 1.22  | 4  | 3.81   | 12.50  | 4.65           | 50              |
| 55053 | 2.44  | 8  | 38.10  | 125.00 | 92.96          | 1000            |

#### PROPERTIES

| Properties             | STANDARDS          | M1V  |
|------------------------|--------------------|--|
| Nominal thickness      | -                  | 4 mm (5/32 in)                                   |
| Emissivity             | -                  | 0.04-0.05  |
| Reflectivity           | -                  | 0.95-0.96  |
| Compressive strength   | -                  | 414kN/m <sup>2</sup> (60.05 lb/in <sup>2</sup> ) |
| Tensile Strength       | CAN/CGSB-51.33-M89 | 3.7 N/mm (21.13 lb/in)                           |
| Water vapour permeance | ASTM E96           | Conforms type 1                                  |
| Linear Shrinkage       | -                  | None   |
| Flame spread           | ASTM E84           | 10   |
| Smoke development      | ASTM E84           | 110  |

(Nominal values)

## M1V




### PROPERTIES (CONTINUED)

| Properties                           | STANDARDS            | M1V                     |
|--------------------------------------|----------------------|-------------------------|
| Flame spread                         | CAN/ULC-S102         | 0                       |
| Smoke development                    | CAN/ULC-S102         | 30s                     |
| Resistance to fungi and bacteria     | -                    | Does not promote growth |
| Electric conductivity                | -                    | None                    |
| Corrosivity, 200 °F (93 °C) - 7 days | -                    | Pass                    |
| Pliability                           | CAN / CGSB-51.33 M89 | No cracking             |

(Nominal values)

RESISTO REFLECTIVE INSULATION PRODUCTS ARE TESTED ACCORDING TO ASTM C1224, ASTM C1363 AND ASTM C518 STANDARDS

### INSTALLATION

|                        |   |   |
|------------------------|---|---|
| Storage                | Store rolls upright, in a dry and heated place to limit the risk of condensation.           |   |
| Complementary Products | ADHESIVE TAPE ALUMINUM  | ADHESIVE TAPE METALLIZED  |
|                        | ADHESIVE TAPE WHITE VINYL   |   |
| Tools Required         |  Knife   |  Tape measure |
|                        |  Stapler |   |

|                     |   |
|---------------------|---|
| Surface Preparation | All cracks and surface holes should be repaired before installing an HIGH-PERFORMANCE REFLECTIVE INSULATION product. If there is an existing vapor barrier, it must be removed or torn to avoid condensation problems.  |
| Installation        | <p>M1V can be stapled, nailed, screwed, glued and threaded. The installation method of these products may have an impact on their efficiency; it is therefore important to know the best installation methods recommended by RESISTO. Furthermore, since RESISTO reflective insulation is also a 100% vapour barrier, it must be installed on the warm side of the assembly, according to the construction standards in your area.</p> <p>Moreover, the use of SPACER STRIPS or wood furring strips is highly advised. They create an air space between the REFLECTING INSULATION and the surface to be insulated to easily obtain maximum insulating value at a low price. The recommended air space should be between 0.5 in to 2 in (1.25 cm to 5 cm).</p> |
| Tricks / Tips       | To minimize air infiltration and humidity transfer, ensure that the HIGH-PERFORMANCE REFLECTIVE INSULATION is not punctured and the insulation system is waterproof. All holes and junctions between two insulation materials must be sealed with RESISTO ADHESIVE TAPE or with a suitable sealant.   |