LISTING REPORT FOR TK PRODUCTS-A DIVISION OF SIERRA CORPORATION

LISTING SUBJECTS:

TK-AirMax 2101 Non-Permeable SB
TK-AirMax 2102 Non-Permeable SB
TK-AirMax 2103 Non-Permeable WB
TK-AirMax 2104 Vapor Permeable WB
TK-AirMax 2105 Vapor Permeable SB
TK-HydroMax 2001 SB
TK-HydroMax 2002 SB
TK-HydroMax 2003 WB
TK-Climate Tech 2206 Vapor Permeable WB

CSI Section: 07 27 26 Fluid Applied Membrane Air Barriers

1.0 SCOPE OF LISTING

1.1 Compliance with the following standard:


1.2 Properties assessed:

- Vertical and lateral fire propagation

2.0 FINDINGS

2.1 Product Information:

TK-AirMax 2101 Non-Permeable SB, TK-AirMax 2102 Non-Permeable SB, TK-AirMax 2103 Non-Permeable WB, TK-AirMax 2104 Vapor Permeable WB, TK-AirMax 2105 Vapor Permeable SB, TK-HydroMax 2001 SB, TK-HydroMax 2002 SB, TK-HydroMax 2003 WB and TK-Climate Tech 2206 Vapor Permeable WB are coatings used for air, vapor, weather or water barriers, as applicable.

The TK-AirMax 2101 Non-Permeable SB and TK-HydroMax 2001 SB are solvent-based, fluid-applied coatings. The TK-AirMax 2102 Non-permeable SB and TK-HydroMax 2002 SB are fluid-applied, rubberized polymer coatings that have a resistance to hydrostatic pressure. The TK-AirMax 2103 Non-Permeable WB and TK-HydroMax 2003 WB are solvent-based fluid-applied, rubberized polymer coatings. The TK-AirMax 2104 Vapor Permeable WB is a water-based fluid-applied, rubberized polymer coating. The TK-AirMax 2105 Vapor Permeable SB is a water-based, fluid-applied, rubberized polymer coating. The TK-Climate Tech 2206 Vapor Permeable WB is a water-based, fluid-applied, rubberized polymer coating.

coatings are packaged in 55-gallon (208 L) drums and 5-gallon (18.9 L) pails and stored at temperatures between 40°F to 100°F (4.4°C to 38°C). Each of the coatings when stored in factory-sealed containers at the recommended temperatures, have a two-year shelf-life except for the TK-AirMax 2105 Vapor Permeable SB which has a one-year shelf-life.

2.2 Fire Propagation: The listed products TK-AirMax 2101 Non-Permeable SB, TK-AirMax 2102 Non-Permeable SB, TK-AirMax 2103 Non-Permeable WB, TK-AirMax 2104 Vapor Permeable WB, TK-AirMax 2105 Vapor Permeable SB, TK-HydroMax 2001 SB, TK-HydroMax 2002 SB, TK-HydroMax 2003 WB and TK-Climate Tech 2206 Vapor Permeable WB meet the conditions of acceptance of NFPA 285 when used with the wall components and materials described in Table 1 of this report.

3.0 DESIGN AND INSTALLATION

The manufacturer’s published installation instructions and this listing shall be strictly adhered to. A copy of the instructions and this report shall be available at all times on the jobsite during installation. Where conflicts between this listing and the installation instructions occur, the more restrictive shall govern.

4.0 IDENTIFICATION

TK-AirMax 2101 Non-Permeable SB, TK-AirMax 2102 Non-Permeable SB, TK-AirMax 2103 Non-Permeable WB, TK-AirMax 2104 Vapor Permeable WB, TK-AirMax 2105 Vapor Permeable SB, TK-HydroMax 2001 SB, TK-HydroMax 2002 SB, TK-HydroMax 2003 WB and TK-Climate Tech 2206 Vapor Permeable WB are identified with a label bearing the manufacturer’s name (TK Products – A Division of Sierra Corporation), product name, address, one of the IAPMO Uniform ES Marks of Conformity the listing number (UEL-5006), and the name of the inspection agency (Quality Control Consultants).
5.0 CONTACT INFORMATION

TK PRODUCTS
11400 West 47th Street
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(952) 938-7223
tkproduct.com
Table 1
Walls Containing TK Products Coatings

<table>
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<tr>
<th>Wall Component</th>
<th>Materials</th>
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| **Base Wall System** - Use either 1, 2 or 3 | 1. Concrete Wall  
2. Concrete Masonry Wall  
3. 1 layer – 5/8-inch thick, Type X, Gypsum wallboard on interior, installed over steel studs: minimum 3½-inch depth, minimum 20-gauge at a maximum of 24 inches o.c. with lateral bracing every 4 feet vertically. |

| **Floor line Firestopping** | 4 pcf mineral wool in each stud cavity at each floor line – attached with Z-clips or equivalent |

| **Cavity Insulation – Use either 1, 2, 3 or 4** | 1. None  
2. Fiberglass batt insulation (faced or unfaced)  
3. Mineral wool insulation (faced or unfaced)  
4. Any noncombustible insulation |

| **Exterior sheathing – Sheathing is optional when using base wall systems Numbers 1 or 2** | 1/2-inch thick, Type X exterior type gypsum sheathing |

| **Weather-resistive barrier applied to gypsum sheathing or directly to Base Wall Systems Number 1 or 2 – Use either 1, 2, 3, 4, 5, 6, 7, 8 or 9** | 1. TK-AirMax 2101 Non-Permeable SB  
2. TK-AirMax 2102 Non-Permeable SB  
3. TK-AirMax 2103 Non-Permeable WB  
4. TK-AirMax 2104 Vapor Permeable WB  
5. TK-AirMax 2105 Vapor Permeable SB  
6. TK-HydroMax 2001 SB  
7. TK-HydroMax 2002 SB  
8. TK-HydroMax 2003 WB  
9. TK-Climate Tech 2206 |

| **Exterior Insulation** | Extruded Polystyrene Foam Insulation (XPS) – Type IV per ASTM C578  
- Total thickness to be a minimum of ½ inch to maximum of 3 inches.  

On insulation joints, an asphalt, acrylic, or butyl-based flashing tape – maximum 4-inch width can be used. |

| **Exterior Veneer** - Use either 1, 2, 3, 4 or 5 | 1. Brick – Standard nominal 4-inch thick, clay brick. Brick installed with standard type veneer anchors at maximum 24 inches o.c. vertically on each stud. Maximum 2-inch air gap between exterior insulation and brick.  
2. Concrete – 2 inches thick or greater. Maximum 2-inch air gap between exterior insulation and concrete.  
3. Concrete masonry units – 4 inches thick or greater. Maximum 2-inch air gap between exterior insulation and CMU.  
4. Stone veneer – Minimum 2-inch thick, Limestone or natural stone veneer or minimum 1 ½-inch thick cast artificial stone veneer. Any standard non-open-joint installation technique such as ship-lap, etc. can be used.  
5. Terracotta cladding – Use any terracotta cladding system in which terracotta is minimum 1 ¼-inch thick. Any non-open-joint installation technique such as ship-lap, etc. can be used. |

| **Special Conditions** | Use header treatment shown in Figure 1 for all window and door openings in wall. |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 lb/ft³ = 16.02 kg/m³
FIGURE 1
WINDOW AND DOOR OPENING DETAILS