



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:

- NFPA 285-12; Standard Fire Test Method for the Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components

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. The

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.

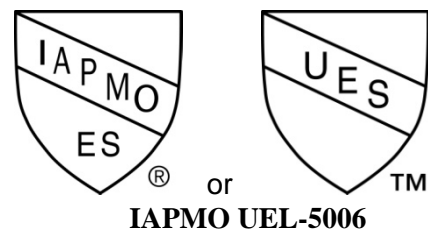
2.2 Fire Propagation: The listed products TK-AirMax 2101 Non-Permeable SB, TK-AirMax 2102 Non-Permeable SB, TK-AirMax 2103 Non-Permeable WB, TK-AirMax 2104 Vapor Permeable WB, TK-AirMax 2105 Vapor Permeable SB, TK-HydroMax 2001 SB, TK-HydroMax 2002 SB, TK-HydroMax 2003 WB and TK-Climate Tech 2206 Vapor 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).



The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.





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5.0 CONTACT INFORMATION

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**Table 1
Walls Containing TK Products Coatings**

Wall Component	Materials
Base Wall System- Use either 1, 2 or 3	<ol style="list-style-type: none"> Concrete Wall Concrete Masonry Wall 1 layer – 5/8-inch thick, Type X, Gypsum wallboard on interior, installed over steel studs: minimum 3 5/8-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	<ol style="list-style-type: none"> None Fiberglass batt insulation (faced or unfaced) Mineral wool insulation (faced or unfaced) Any noncombustible insulation
Exterior sheathing – Sheathing is optional when using base wall systems Numbers 1 or 2	5/8-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	<ol style="list-style-type: none"> 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
Exterior Insulation	<p>Extruded Polystyrene Foam Insulation (XPS) – Type IV per ASTM C578 – Total thickness to be a minimum of 1/2 inch to maximum of 3 inches.</p> <p>On insulation joints, an asphalt, acrylic, or butyl-based flashing tape – maximum 4-inch width can be used.</p>
Exterior Veneer Use either 1, 2, 3, 4 or 5	<ol style="list-style-type: none"> 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. Concrete – 2 inches thick or greater. Maximum 2-inch air gap between exterior insulation and concrete. Concrete masonry units – 4 inches thick or greater. Maximum 2-inch air gap between exterior insulation and CMU. Stone veneer – Minimum 2-inch thick, Limestone or natural stone veneer or minimum 1 1/2 -inch thick cast artificial stone veneer. Any standard non-open-joint installation technique such as ship-lap, etc. can be used. Terracotta cladding – Use any terracotta cladding system in which terracotta is minimum 1 1/4 - 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

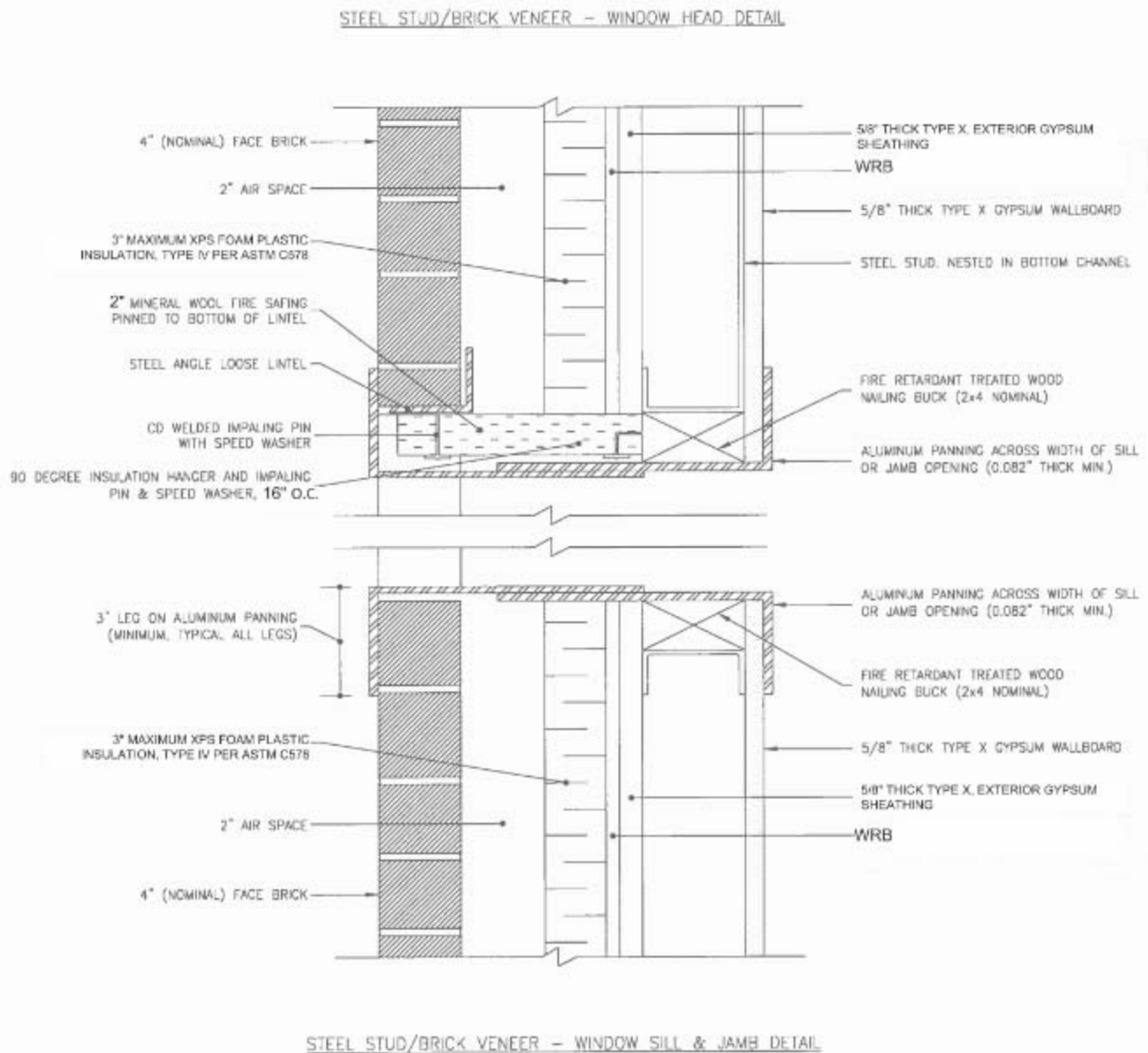


FIGURE 1
WINDOW AND DOOR OPENING DETAILS