

Number: UEL-5032

Originally Issued: 08/15/2019 Revised: 08/17/2022 Valid Through: 08/31/2023

TK PRODUCTS A DIVISION OF SIERRA CORPORATION 11400 West 47th Street Minnetonka, MN 55343 (952) 938-7223

jlibke@tkproduct.com

### 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

#### **CSI Section:**

07 27 26 Fluid Applied Membrane Air Barriers

### 1.0 RECOGNITION

### 1.1 Compliance with the following standard:

 Evaluated for conformance to the acceptance criteria of 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 LIMITATIONS

Use of the 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 recognized in this report is subject to the following limitations:

**2.1** The products noted in section 1.0 of this report shall be installed in accordance with the applicable code, the manufacturer's published installation instructions, and this report. Where there is a conflict, the more restrictive requirements shall govern.

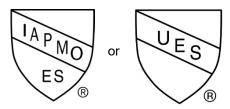
- **2.2** To be considered as conforming with NFPA 285–12, the assemblies shall be as described in one of the Tables 1 through 5 of this report.
- **2.3** The code classification of vapor, weather or water barriers, is beyond the scope of this listing report.
- **2.4** The products recognized in this report are produced by TK Products in Minnetonka, MN.

### 3.0 DESCRIPTION

As noted in UEL-5006 the TK-AirMax 2101 Non-Permeable SB and TK-HydroMax 2001 SB are solvent-based, fluidapplied 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 5gallon (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 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.

### 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-5032), and the name of the inspection agency (Quality Control Consultants). Either Mark of Conformity may be used as follows:



**IAPMO UES UEL-5032** 



Number: UEL-5032

Originally Issued: 08/15/2019 Revised: 08/17/2022 Valid Through: 08/31/2023

### 5.0 SUBSTANTIATING DATA

**5.1** Evaluation Listing UEL-5006.

**5.2** Engineering analysis of NFPA 285.

### 6.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research carried out by IAPMO Uniform Evaluation Service on TK Products-A Division of Sierra Corporation materials noted in Section 1.1 to assess conformance to the standard noted in Section 1.2 when installed as a component of wall systems described in Tables 1 through 5 of this report and serves as documentation of the product certification. Products are manufactured at locations noted in Section 2.4 of this report under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org



Number: UEL-5032

Originally Issued: 08/15/2019 Revised: 08/17/2022 Valid Through: 08/31/2023

## TABLE 1 (cont'd on next page) Walls Containing TK Products Coatings For use only with Atlas Polyisocyanurate Insulation

	For	use only with Atlas Polyisocyanurate Insulation
Wall Component	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2000 1 22 2 32 1000 VO
Base Wall - Use either	1)	1" min. Cast Concrete Walls
1, 2, 3 or 4	2)	1" min. CMU Concrete Walls
Acceptance of the second secon	3)	20 GA (min.) 35/8" (min.) steel studs spaced 24" OC (max.)
		% in. type X Gypsum Wallboard Interior
	4)	FRT wood studs spaced 24 in. OC (max.) with % in. type X Gypsum
		Wallboard Interior
Fire-Stopping in Stud	1)	None
Cavity at floor lines -	2)	4 lb/ft3 mineral wool (e.g., Thermafiber) in each stud cavity at each
Use 1 or 2		floor line - attached with Z-clips or equivalent
Cavity Insulation - Use	1)	None
any Item 1 - 16	2)	Any noncombustible insulation per ASTM E136
	3)	Any mineral fiber (Board type Class A ASTM E84 faced or unfaced)
Note: Cavity Insulations	4)	Fiberglass (Batt type Class A ASTM E84 faced or unfaced)
5 - 16 must use floor	5)	5½" (max.) Icynene LD-C-50 spray foam in 6" deep studs (max.) full
line fire-stopping		fill without an air gap
compliant with Item 2	6)	51/2" (max.) Icynene MD-C-200, 2 pcf spray foam in 6" deep studs
and %" exterior gypsum		(max.) full fill without an air gap
sheathing.	7)	5½" (max.) Icynene MD-R-210, 2 pcf spray foam in 6" deep studs
8 80 0 1 100 0 0 0 0 0		(max.) full fill without an air gap
	8)	6" (max.) SWD Urethane QS 112, 2 pcf spray foam in 6" deep studs
		(max.) or partial fill with a maximum 2½" air gap
	9)	3½" (max.) Gaco Western 183M spray foam in 3%" deep studs
		(max.)
	10)	Gaco Western F1850 (3½" max.). Use with 5%" exterior sheathing in
		3%" deep studs (max.)
	11)	Demilec Sealection 500 (35/8" max). Use with 5/8" exterior sheathing
		in 3%" deep studs (max.)
	12)	Demilec HeatLok Soy 200 Plus (3.4" max). Use with 5%" exterior
		sheathing in 35/8" deep studs (max.)
		Bayer Bayseal (3" max). Use with %" exterior sheathing.
	14)	Lapolla FoamLok FL 2000 (3" max). Use with %" exterior sheathing
	4.5	in 3%" deep studs (max.)
	15)	BASF SprayTite 81206 or WallTite (US & US-N) (35/8" max). Use with
	40)	5%" exterior sheathing in 35%" deep studs (max.)
	16)	Accella (Premium Spray Products) Foamsulate 220 (3% in. max.).
Exterior Obsething	43	Use with 5% inch exterior sheathing in 35% in. deep studs (max.).
Exterior Sheathing –		1/2" or thicker exterior gypsum sheathing
Use either 1 or 2	2)	2" precast concrete panels attached to structural elements of building
Must be used when SPF		
is used. See sheathing		
thickness specified above.		
Air Barrier or Weather	1)	AirMax 2101 NP SB
Resistive Barrier	2)	HydroMax 2001SB
Applied to Exterior	3)	AirMax 2102 NP SB
Applied to Exterior	3)	MITIVIAN A TUZ INF OD



## LISTING REPORT Number: UEL-5032

sheathing or base wall	4) HydroMax 2002SB
surface - Use any Item	5) AirMax 2103 NP WB
1 - 9.	6) HydroMax 2003WB
	7) AirMax 2104 VP WB
	8) AirMax 2105 VP SB
15 2 1 1 100 1 152 1 100 100 100 100 100 100 100 100 100	9) Climate Tech
Exterior Insulation –	1) 4" (max.) EnergyShield Pro (or Pro2)
Use either 1, 2 or 3	<ol><li>4" (max.) RBoard Pro (or EnergyShield CGF Pro)</li></ol>
	<ol> <li>4<sup>3</sup>/<sub>4</sub>" (max.) EnergyShield Ply Pro (4" EnergyShield CGF Pro w/ <sup>5</sup>/<sub>8</sub>" or <sup>3</sup>/<sub>4</sub>" FRT Plywood).</li> </ol>
	Items 1 - 3 may be multiple layers of 1 inch thick (min.).
	Items 1 - 3 may be multiple layers of thinner product with facers on each side.
Exterior Cladding –	1) Brick
Use any Item 1 - 14	<ul> <li>a. Brick Veneer Anchors – standard types – installed maximum 24"</li> <li>OC (max.) vertically on each stud</li> </ul>
Note: Cladding 8 (Zinc)	<ul> <li>b. Maximum 2" air gap between exterior insulation and brick.</li> </ul>
may only be used with	<ul> <li>Standard Nominal 4" thick clay brick or veneer</li> </ul>
EnergyShield Pro or	2) Stucco - minimum 3/4" thick exterior cement plaster and the lath. A
Pro2.	secondary WRB can be installed between the exterior insulation and
	lath. The secondary WRB shall not be full coverage asphalt or butyl
	based self-adhering membranes.
	Limestone – minimum 2" thick
	Natural Stone Veneer – minimum 2" thick
	<ol> <li>Cast Artificial Stone – minimum 1½" thick complying with ICC-ES AC</li> <li>51</li> </ol>
	Terra Cotta Cladding – Use any terracotta cladding system in which
	terracotta is minimum 11/4" thick. Any installation technique can be used.
	7) Any ACM that has passed NFPA 285
	8) Uninsulated sheet metal building panels including aluminum, steel,
	copper or zinc (see note)
	9) Uninsulated fiber-cement cladding panels minimum 1/4" thick
	10) Stone/Aluminum honeycomb composite building panels that have
	successfully passed NFPA 285 criteria.
	11) Autoclaved-aerated-concrete (AAC) panels minimum 1½" thick.
	12) Reynobond Zinc ZCM Zinc metal composite panel
	13) Terreal Zephir Evolution Rainscreen System (terra cotta), minimum 9/16" thick
	14) FunderMax M.Look using the manufacturer standard installation
	technique. The air gap between the cladding and insulation or WRB must
	not exceed 1½ inches.
	where it is managed



Number: UEL-5032

Valid Through: 08/31/2023

Originally Issued: 08/15/2019 Revised: 08/17/2022

TABLE 2 (cont'd on next page)
Walls Containing TK Products Coatings
For use only with RMax Polyisocyanurate Insulation

		e only with Kwax Folyisocyanurate insulation
Wall Component	OKC 11	practical agranda of
Base Wall – Use either 1, 2, 3 or 4 Note: May use 4	,	Cast Concrete Walls CMU Concrete Walls 20 GA. (min.) 35% in. (min.) steel studs spaced 24 in. OC (max.) a. 5% in. type X Gypsum Wallboard Interior
optionally when FRTW framing is allowed by code.	4)	b. Bracing as required by code. Where allowed in Types I, II, III or IV construction, FRTW (Fireretardant-treated wood) studs complying with IBC Section 2303.2, min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. 5/8 in. type X Gypsum Wallboard Interior b. Bracing as required by code
Fire-Stopping in Stud Cavity at floor lines – As any option, use 2 with FRTW framing	1) 2)	4 pcf mineral wool installed with z-clips FRTW fire blocking at floor line in accordance with applicable code requirements
Cavity Insulation – Use either 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 or 15	4)	None Any noncombustible insulation per ASTM E136 Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced)
Note. Items 5 - 15 are SPF Foam Type	5) 6)	5½ inch (max.) Icynene LD-C-50 spray foam in 6 inch deep studs (max.). Use with ½ inch exterior sheathing. 5½ inch (max.) Icynene MD-C-200 2 pcf spray foam in 6 inch deep studs (max.) full fill without an air gap. Use with ½ inch exterior
EZ FLO may be used inside the box headers and jamb studs for NFPA 285 assemblies	7)	sheathing. $5\frac{1}{2}$ inch (max.) Icynene MD-R-210 2 pcf spray foam in 6 inch deep studs (max.) full fill without an air gap. Use with $\frac{5}{8}$ inch exterior sheathing.
requiring SPF in stud cavities.	10.000	SWD Urethane QS 112 2 pcf spray foam in 6 inch deep studs (max.) partial fill with a maximum $2\frac{1}{2}$ inch air gap or full fill. Use with $\frac{5}{8}$ inch exterior sheathing.
	9)	Gaco Western 183M (3½ inch max.). Use with 5% inch exterior sheathing.
	10)	Gaco Western F1850 (3½ inch max.). Use with % inch exterior sheathing.
	11)	Demilec Sealection 500 (3% inch max). Use with % inch exterior sheathing.
	12)	Demilec HeatLok Soy 200 Plus (3.4 inch max). Use with 5/8 inch exterior sheathing.
	14)	Bayer Bayseal (3 inch max). Use with $\%$ inch exterior sheathing. Lapolla FoamLok FL 2000 (3 inch max). Use with $\%$ inch exterior sheathing.
	15)	BASF SprayTite 81206 or WallTite (US & US-N) (35% inch max). Use with 5% inch exterior sheathing.



Number: UEL-5032

Futorior Obsething	0.47
Exterior Sheathing –	1) ½ in. or thicker exterior gypsum sheathing
Use 1 or 2	2) ½" (min.) FRTW structural panels complying with IBC Section 2303.2
	and installed in accordance with code allowances for Types I, II, III
	or IV construction
	Note – exterior FRTW sheathing or gypsum board is optional for Base Walls
	1 and 2. When SPF is used, % inch exterior gypsum sheathing must be used.
WRB Over Sheathing	1) AirMax 2101 NP SB
or base wall surface -	2) HydroMax 2001 SB
use any Item 1 - 9	3) AirMax 2102 NP SB
	4) HydroMax 2002 SB
	5) AirMax 2103 NP WB
	6) HydroMax 2003 WB
	7) AirMax 2104 VP WB
	8) AirMax 2105 VP SB
	9) Climate Tech
Exterior Insulation –	1) 4½ in. (max. consisting of a single panel or multiple thinner panels)
Use either 1, 2 or 3	Rmax TSX-8500
	2) 4½ in. (max. consisting of a single panel or multiple thinner panels)
	Rmax ECOMAXci
	3) 4½ in. (max. consisting of a single panel or multiple thinner panels)
	Rmax TSX-8510
Exterior Cladding - Use	Brick - Nominal 4 in. clay brick or veneer with maximum 2 in. air gap
either 1, 2, 3, 4, 5, 6, 7,	behind the brick. Brick Ties/Anchors 24 in. OC (max.)
8, 9, 10, 11, 12 or 13	
	2) Stucco - minimum ¾ in. thick exterior cement plaster and lath with
	an optional secondary water resistive barrier between the exterior
	insulation and lath. The secondary barrier shall not be full coverage asphalt or self-adhered butyl membrane.
	S) Limestone – minimum 2 in. thick using any standard installation
	technique
	4) Natural Stone Veneer - minimum 2 in. thick using any standard
	installation technique
	5) Cast Artificial Stone – minimum 1½ in. thick complying with ICC-ES AC 51 using any standard installation technique
	6) Terra Cotta Cladding – minimum 1¼ in. thick using any standard
	installation technique
	7) Any MCM or ACM (aluminum, steel, copper, zinc) (w/ 2½ in. max. air
	gap) that has successfully passed NFPA 285 using any standard
	installation technique such as Carter Companies EVO Architectural
	Panel Systems for use with FR ACM/MCM NFPA 285 material.  8) Uninsulated sheet metal building panels including aluminum, zinc,
	steel or copper using any standard installation technique
	Uninsulated fiber-cement siding using any standard installation
	technique
	10) Stone/Aluminum honeycomb composite building panels that have
	passed NFPA 285 or equivalent
	Stone Panels Inc. Stone Lite Panel system has been analyzed using mfr's standard installation technique.
	11) Autoclaved-aerated-concrete (AAC) panels that have successfully
	passed NFPA 285 using any standard installation technique
	12) Thin Set Brick - Glen Gery Thin Tech Elite has been analyzed using
	mfr's standard installation technique.
	13) Natural Stone Veneer – minimum 1½ inch (adhered with mortar or
	concrete/cement based adhesive).



## LISTING REPORT No.

Number: UEL-5032

Originally Issued: 08/15/2019 Revised: 08/17/2022 Valid Through: 08/31/2023

# TABLE 3 (cont'd on next page) Walls Containing TK Products Coatings For use only with Hunter Polyisocyanurate Insulation Xci Foil (Class A) or XCi-286 Exterior Insulation

Wall Component  Base Wall – Use either  1, 2, 3 or 4  Fire-Stopping at floor lines – Use 1 or 2	4)	Cast Concrete Walls CMU Concrete Walls 25 GA. min. 35%" (min.) steel studs spaced 24" OC (max.) a. 5%" type X Gypsum Wallboard Interior b. Lateral Bracing every 4 ft FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. 5% in. type X Gypsum Wallboard Interior b. Bracing as required by code Any approved mineral fiber based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth.
1, 2, 3 or 4  Fire-Stopping at floor	2) 3) 4)	CMU Concrete Walls 25 GA. min. 35%" (min.) steel studs spaced 24" OC (max.) a. 5%" type X Gypsum Wallboard Interior b. Lateral Bracing every 4 ft FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. 5% in. type X Gypsum Wallboard Interior b. Bracing as required by code Any approved mineral fiber based safing insulation in each stud
Fire-Stopping at floor	4)	CMU Concrete Walls 25 GA. min. 35%" (min.) steel studs spaced 24" OC (max.) a. 5%" type X Gypsum Wallboard Interior b. Lateral Bracing every 4 ft FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. 5% in. type X Gypsum Wallboard Interior b. Bracing as required by code Any approved mineral fiber based safing insulation in each stud
Fire-Stopping at floor	4)	25 GA. min. 35%" (min.) steel studs spaced 24" OC (max.) a. 5%" type X Gypsum Wallboard Interior b. Lateral Bracing every 4 ft FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. 5% in. type X Gypsum Wallboard Interior b. Bracing as required by code Any approved mineral fiber based safing insulation in each stud
	4)	a. 5/8" type X Gypsum Wallboard Interior b. Lateral Bracing every 4 ft FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. 5/8 in. type X Gypsum Wallboard Interior b. Bracing as required by code Any approved mineral fiber based safing insulation in each stud
	1)	b. Lateral Bracing every 4 ft FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. 5% in. type X Gypsum Wallboard Interior b. Bracing as required by code Any approved mineral fiber based safing insulation in each stud
	1)	FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.)  a. 5% in. type X Gypsum Wallboard Interior  b. Bracing as required by code  Any approved mineral fiber based safing insulation in each stud
	1)	dimension, spaced 24" OC (max.)  a. 5% in. type X Gypsum Wallboard Interior  b. Bracing as required by code  Any approved mineral fiber based safing insulation in each stud
		<ul> <li>a. 5% in. type X Gypsum Wallboard Interior</li> <li>b. Bracing as required by code</li> <li>Any approved mineral fiber based safing insulation in each stud</li> </ul>
		<ul> <li>b. Bracing as required by code</li> <li>Any approved mineral fiber based safing insulation in each stud</li> </ul>
		Any approved mineral fiber based safing insulation in each stud
111163 - 036 1 01 2	2)	
	۷)	
Cavity Insulation – Use	1)	code requirements for Type III construction.  None
	,	
either: 1, 2, 3, 4, 5, 6, 7,		1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness)
8, 9, 10 or 11.	3)	1½" (min.) of BASF Walltite SPF (up to full cavity thickness)
Han autorian	4)	Any noncombustible insulation per ASTM E136
Use only exterior	5)	Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced)
sheathing option 1.	6)	Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced)
	2000 to 1000 to 1	
	7)	Any foam plastic insulation (SPF or board type) which has been
		tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and
		shown by analysis to be less flammable (improved T <sub>ign</sub> , Pk. HRR)
		than Covestro EcoBay CC or BASF Walltite
	8)	NCFI InsulBloc SPF (up to full cavity thickness)
	9)	Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in.
		(min.) exterior gypsum sheathing)
	10)	SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud
		cavities with an air gap not exceeding 2½ inches.
	11)	1½" (min.) ThermoSeal 2000 (up to full cavity thickness)
Exterior Sheathing –	1)	½" or thicker exterior gypsum sheathing
Use either 1, or 2	2)	1/2" (min.) FRTW structural panels in Type III construction
WRB Over Base Wall	1)	AirMax 2101 NP SB
Surface – use any item	2)	HydroMax 2001SB
1-9	3)	AirMax 2102 NP SB
	4)	HydroMax 2002SB
		AirMax 2103 NP WB
		HydroMax 2003WB
		AirMax 2104 VP WB
		AirMax 2105 VP SB
	9)	Climate Tech
WRB Over Base Wall Surface – use any item	1) 2) 3) 4) 5)	AirMax 2101 NP SB HydroMax 2001SB AirMax 2102 NP SB HydroMax 2002SB AirMax 2103 NP WB



## LISTING REPORT Num

Number: UEL-5032

l =	.:	
Exterior Insulation –	,	3½" thick (max.) Xci Foil (Class A) or Xci-286 for all claddings
Use 1 or 2, depending	2)	4" thick Xci Foil (Class A) or Xci-286 for claddings 1-6
on cladding.		
Exterior Cladding - Use	1)	Brick – Nominal 4" clay or concrete brick or veneer with maximum 2"
either 1, 2, 3, 4, 5, 6, 7,		air gap behind the brick. Brick Ties/Anchors 24" OC (max.)
8, 9, 10, 11, 12,13, 14,	2)	Stucco – minimum 3/4" thick exterior cement plaster and lath with an
15, 16 or 17.		optional secondary water resistive barrier between the exterior
		insulation and lath. The secondary barrier shall not be full coverage
Item 7 may use any		asphalt or self-adhered butyl membrane.
tested/approved	3)	Limestone - minimum 2" thick using any standard non-open joint
installation technique.		installation technique such as shiplap
	4)	Natural Stone Veneer - minimum 2" thick using any standard non-
Items 8, 9 or 12 may use		open joint installation technique such as grouted/mortared stone
any standard installation	5)	Cast Artificial Stone – minimum 1½" thick complying with ICC-ES AC
technique.		51 using any standard non-open joint installation technique such as
		shiplap.
	6)	Terra Cotta Cladding - minimum 11/4" thick (solid or equivalent by
		weight) using any standard non-open joint installation technique
		such as shiplap
	7)	Any MCM that has successfully passed NFPA 285
	8)	Uninsulated sheet metal building panels including steel, copper,
		aluminum or zinc
	9)	1/4" (min.) uninsulated fiber cement siding, or porcelain or ceramic tile
		mechanically attached
	10)	Stone, porcelain, ceramic/aluminum honeycomb composite building
		panels that have successfully passed NFPA 285 criteria
	11)	Autoclaved-aerated-concrete (AAC) panels that have successfully
		passed NFPA 285 criteria
	12)	Terra Cotta Cladding – Any Rain-screen Terra Cotta (min. ½" thick)
		with ventilated shiplap
	13)	1/2" Stucco - Any one coat stucco (1/2" min.) which meets AC11
		acceptance criteria or is approved for use in Type I-IV construction
		or has been tested per NFPA 285 or stays in place when tested per
		ASTM E119 (stucco exposed to fire) for at least 30 minutes
	14)	Thin brick/cultured stone set in thin set adhesive and metal lath that
		has been tested to ASTM E119 (brick exposed to furnace) and
		remains in place for a minimum of 30 minutes, or has passed an
		NFPA 285 test. Minimum ¾" with an optional secondary water
		resistive barrier between the exterior insulation and lath. The
		secondary barrier shall not be full coverage asphalt or self-adhered
		butyl membrane.
	15)	Glen Gery Thin Tech Elite Series Masonry Veneer or TABS II Panel
	/	System with ½" thick bricks using TABS Wall Adhesive
	16)	Natural Stone Veneer - minimum 1¼" thick using any standard
	/	installation technique
	17)	FunderMax M.Look Grey Core - minimum ¼ inch thick using any
	,	standard installation technique
		Topic



## LISTING REPORT Numb

Number: UEL-5032

Originally Issued: 08/15/2019 Revised: 08/17/2022 Valid Through: 08/31/2023

# TABLE 4 (cont'd on next page) Walls Containing TK Products Coatings For use only with Hunter Polyisocyanurate Insulation Xci GG (Class A) Exterior Insulation

, ,		Xci GG (Class A) Exterior Insulation
Wall Component		
Base Wall - Use either		Cast Concrete Walls
1, 2, 3 or 4	2)	CMU Concrete Walls
300300000000000000000000000000000000000	3)	25 GA. min. 3%" (min.) steel studs spaced 24" OC (max.)
		a. %" type X Gypsum Wallboard Interior
		b. Lateral Bracing every 4 ft
	4)	FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4
		dimension, spaced 24" OC (max.)
		a. % in. type X Gypsum Wallboard Interior
		b. Bracing as required by code
Fire-Stopping at floor	1)	Any approved mineral fiber based safing insulation in each stud
lines		cavity at floor line. Safing thickness must match stud cavity depth.
	2)	Solid FRTW fire blocking at floor line in accordance with building
100 Apr 00 100 Apr 00 A		code requirements for Type III construction.
Cavity Insulation – Use	1)	None
either: 1, 2, 3, 4, 5, 6, 7,	2)	1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness)
8, 9, 10 or 11	3)	1½" (min.) of BASF Walltite SPF (up to full cavity thickness)
	4)	Any noncombustible insulation per ASTM E136
Use only exterior	5)	Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced)
sheathing option 1.	6)	Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced)
	7)	Any foam plastic insulation (SPF or board type) which has been
		tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and
		shown by analysis to be less flammable (improved Tign, Pk. HRR)
		than Covestro EcoBay CC or BASF Walltite
	8)	NCFI InsulBloc SPF (up to full cavity thickness)
	9)	Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in.
		(min.) exterior gypsum sheathing)
	10)	SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud
		cavities with an air gap not exceeding 21/2 inches.
17544	11)	1½" (min.) ThermoSeal 2000 (up to full cavity thickness)
Exterior Sheathing	1)	½" or thicker exterior gypsum sheathing
Use 1 or 2	2)	½" (min.) FRTW structural panels in Type III construction
WRB on Base Wall -	1)	AirMax 2101 NP SB
use any Item 1 - 9	2)	HydroMax 2001 SB
	3)	AirMax 2102 NP SB
	4)	HydroMax 2002 SB
	5)	AirMax 2103 NP WB
	6)	HydroMax 2003 WB
	7)	AirMax 2104 VP WB
	8)	AirMax 2105 VP SB
	9)	Climate Tech



Number: UEL-5032

Exterior Insulation –		3½" thick (max.) Xci CG (Class A) for all claddings
Use 1 or 2 depending on	2)	4" thick (max.) Xci-CG (Class A) for claddings 1-6
cladding	10170	ergons men samos eren "apronuere" generalere "
Exterior Cladding - Use	1)	
either 1, 2, 3, 4, 5, 6, 7,		air gap behind the brick. Brick Ties/Anchors 24" OC (max.)
8, 9, 10, 11, 12, 13, 14,	2)	Stucco – minimum ¾" thick exterior cement plaster and lath with an
15, 16 or 17		optional secondary water resistive barrier between the exterior
		insulation and lath. The secondary barrier shall not be full coverage
Item 7 may use any		asphalt or self-adhered butyl membrane.
tested/approved	3)	Limestone - minimum 2" thick using any standard non-open joint
installation technique.		installation technique such as shiplap
	4)	
Items 8, 9 or 12 may use	- /	open joint installation technique such as grouted/mortared stone
any standard installation	5)	Cast Artificial Stone – minimum 1½" thick complying with ICC-ES AC
technique	-/	51 using any standard non-open joint installation technique such as
teerinique		shiplap
	6)	Terra Cotta Cladding – minimum 11/4" thick (solid or equivalent by
	0)	weight) using any standard non-open joint installation technique such
		as shiplap
	7)	
		Any MCM that has successfully passed NFPA 285
	0)	Uninsulated sheet metal building panels including steel, copper, aluminum
	0)	
	9)	1/4" (min.) uninsulated fiber cement siding or porcelain or ceramic tile
	10)	mechanically attached
	10)	Stone, porcelain, ceramic/aluminum honeycomb composite building
	11\	panels that have successfully passed NFPA 285 criteria
	11)	Autoclaved-aerated-concrete (AAC) panels that have successfully
	40\	passed NFPA 285 criteria
	12)	Terra Cotta Cladding – Any Rain-screen Terra Cotta (min. ½" thick) with ventilated shiplap
	13)	1/2" Stucco - Any one coat stucco (1/2" min.) which meets AC11
	13)	acceptance criteria or is approved for use in Type I-IV construction
		or has been tested per NFPA 285 or stays in place when tested per
	14)	ASTM E119 (stucco exposed to fire) for at least 30 minutes
	14)	Thin brick/cultured stone set in thin set adhesive and metal lath that has been tested to ASTM E119 (brick exposed to furnace) and
		· · · · · · · · · · · · · · · · · · ·
		remains in place for a minimum of 30 minutes, or has passed an
		NFPA 285 test. Minimum ¾" with an optional secondary water
		resistive barrier between the exterior insulation and lath. The
		secondary barrier shall not be full coverage asphalt or self-adhered
	45	butyl membrane.
	15)	Glen Gery Thin Tech Elite Series Masonry Veneer or TABS II Panel
	401	System with ½" thick bricks using TABS Wall Adhesive
	16)	Natural Stone Veneer - minimum 11/4" thick using any standard
	4	installation technique
	17)	FunderMax M.Look Grey Core - minimum 1/4 inch thick using any
		standard installation technique



Number: UEL-5032

Originally Issued: 08/15/2019 Revised: 08/17/2022 Valid Through: 08/31/2023

# TABLE 5 (cont'd on next page) Walls Containing TK Products Coatings For use only with Hunter Polyisocyanurate Insulation

Cavity Insulation - Use either 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11   Sheathing option 1.			Xci Ply (Class A) Exterior Insulation
Cavity Insulation - Use either 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11   Sheathing option 1.	Wall Component	V 1000	(Section 12) Indeption 10)
3) 25 GA, min. 3%" (min.) steel studs spaced 24" OC (max.) a. %" type X Gypsum Wallboard Interior b. Lateral Bracing every 4 ft  4) FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. % in. type X Gypsum Wallboard Interior b. Bracing as required by code  1) Any approved mineral fiber based safing insulation in each stud cavity at gloor line. Safing thickness must match stud cavity depth. 2) Solid FRTW fire blocking at floor line in accordance with building code requirements for Type III construction.  1) None 2) 1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 4) Any noncombustible insulation per ASTM E184 faced or unfaced) 6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 8) NCFI InsulBioc SPF (up to full cavity thickness) 9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) ½" (min.) ThermoSeal 2000 (up to full cavity thickness) 11/2" (min.) ThermoSeal 2000 (up to full cavity thickness) 12/2" (min.) ThermoSeal 2000 (up to full cavity thickness) 13 AirMax 2101 NP SB 14/4 (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 14/4" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.) with all claddings 2) 4½" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	Base Wall - Use either	1)	Cast Concrete Walls
3) 25 GA, min. 3%" (min.) steel studs spaced 24" OC (max.) a. %" type X Gypsum Wallboard Interior b. Lateral Bracing every 4 ft  4) FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. % in. type X Gypsum Wallboard Interior b. Bracing as required by code  1) Any approved mineral fiber based safing insulation in each stud cavity at gloor line. Safing thickness must match stud cavity depth. 2) Solid FRTW fire blocking at floor line in accordance with building code requirements for Type III construction.  1) None 2) 1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 4) Any noncombustible insulation per ASTM E136 4) Any noncombustible insulation per ASTM E84 faced or unfaced) 6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1364 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 8) NCFI InsulBioc SPF (up to full cavity thickness) 9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness) 11. 4irMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2101 NP SB 4) HydroMax 2003 WB 7) AirMax 2101 NP WB 8) AirMax 2101 NP WB 8) AirMax 2101 NP WB 9) Climate Tech 11) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2) 4½" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.) with all claddings 2) 4½" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	1, 2, 3 or 4	2)	CMU Concrete Walls
a. %" type X Gypsum Wallboard Interior b. Lateral Bracing every 4 ff FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. % in. type X Gypsum Wallboard Interior b. Bracing as required by code  Fire-Stopping at Floor Lines  10 Any approved mineral fiber based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth. 2 Solid FRTW fire blocking at floor line in accordance with building code requirements for Type III construction.  1 None 2 11½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 3 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 4 Any noncombustible insulation per ASTM E136 5 Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) 6 Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7 Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 8 NCFI InsulBloc SPF (up to full cavity thickness) 9 Icynene MD-C-200v3 (Proseal) up to 5% inches (only with ½ in. (min.) exterior gypsum sheathing) 10 SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11 1½" (min.) ThermoSeal 2000 (up to full cavity thickness) 2 1½" or thicker exterior gypsum sheathing 2 2½" (min.) FRTW structural panels in Type III construction.  11 AirMax 2101 NP SB 12 HydroMax 2002 SB 13 AirMax 2101 NP SB 14 HydroMax 2003 SB 15 AirMax 2101 NP SB 16 HydroMax 2003 SB 17 AirMax 2104 VP WB 18 AirMax 2105 VP SB 19 Climate Tech 20 14½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 21 4½" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.) with all claddings 21 4½" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)			
b. Lateral Bracing every 4 ft  4) FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. % in. type X Gypsum Wallboard Interior b. Bracing as required by code  1) Any approved mineral fiber based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth. 2) Solid FRTW fire blocking at floor line in accordance with building code requirements for Type III construction.  1) None either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11  2) 1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 3) 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 4) Any noncombustible insulation per ASTM E136 6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 8) NCFI InsulBioc SPF (up to full cavity thickness) 9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  WRB Over Base Wall Surface – use any item 1-9  3) AirMax 2101 NP SB 4) HydroMax 2002 SB 5) AirMax 2101 NP SB 4) HydroMax 2003 WB 7) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding. 2) 4½" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.) with all claddings 2) 4½" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)			
4) FRTW (Fire-retardant-treated wood) studs: min. nominal 2 x 4 dimension, spaced 24" OC (max.) a. % in. type X Gypsum Wallboard Interior b. Bracing as required by code  1) Any approved mineral fiber based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth. 2) Solid FRTW fire blocking at floor line in accordance with building code requirements for Type III construction.  1) None  either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11  1) None  either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11  2) 1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 3) 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 4) Any noncombustible insulation per ASTM E136 5) Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) 6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 8) NCFI InsulBloc SPF (up to full cavity thickness) 9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Sheiled 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 1) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness) 2) LydroMax 2001 SB 3) AirMax 2101 NP SB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation — Use 1 or 2 depending on cladding. 2) 44" (max.) Xci Ply (Class A) (4" foam max., ½" FR Plywood max.) with all claddings 2) 44" (max.) Xci Ply (Class A) (4" foam max., ½" FR Plywood max.)			
dimension, spaced 24" OC (max.) a. % in. type X Gypsum Wallboard Interior b. Bracing as required by code  1) Any approved mineral fiber based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth. 2) Solid FRTW fire blocking at floor line in accordance with building code requirements for Type III construction.  1) None  either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11  1) Wiff (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 11½" (min.) of BASF Walltite SPF (up to full cavity thickness) 11½" (min.) of BASF Walltite SPF (up to full cavity thickness) 11½" (min.) of BASF Walltite SPF (up to full cavity thickness) 11½" (min.) of BASF Walltite SPF (up to full cavity thickness) 12 Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) 13 Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 14 Any roam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 15 NCFI InsulBloc SPF (up to full cavity thickness) 16 Insulation Symbol Cavity thickness) 17 Insulation Symbol		1)	
a. % in. type X Gypsum Wallboard Interior b. Bracing as required by code  1 Any approved mineral fiber based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth. 2 Solid FRTW fire blocking at floor line in accordance with building code requirements for Type III construction.  Cavity Insulation – Use either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11  1 None  2 1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 11½" (min.) of BASF Walltite SPF (up to full cavity thickness) 4 Any noncombustible insulation per ASTM E136 5 Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) 7 Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 8 NCFI InsulBloc SPF (up to full cavity thickness) 9 Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) ½" (min.) FRTW structural panels in Type III construction.  WRB Over Base Wall Surface – use any item 1-9  Exterior Insulation – Use 1 or 2 depending on cladding.  Exterior Insulation – Use 1 or 2 depending on cladding.  Exterior Insulation – Use 1 or 2 depending on cladding.  Exterior Insulation – Use 1 or 2 depending on cladding.		7)	
b. Bracing as required by code  1) Any approved mineral fiber based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth. 2) Solid FRTW fire blocking at floor line in accordance with building code requirements for Type III construction.  1) None  either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11  2) 11/2" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 3) 11/2" (min.) of BASF Walltite SPF (up to full cavity thickness) 4) Any noncombustible insulation per ASTM E136 5) Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) 6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 8) NCFI InsulBloc SPF (up to full cavity thickness) 9) Icynene MD-C-20003 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) ½" (min.) ThermoSeal 2000 (up to full cavity thickness) 12x* (min.) FRTW structural panels in Type III construction. 13 AirMax 2101 NP SB 14 HydroMax 2001 SB 15 AirMax 2102 NP SB 16 HydroMax 2003 WB 17 AirMax 2104 VP WB 18 AirMax 2104 VP WB 18 AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding. 2) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2) 4½" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.) with all claddings 2) 4½" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)			
1			
cavity at floor line. Safing thickness must match stud cavity depth. 2) Solid FRTW fire blocking at floor line in accordance with building code requirements for Type III construction.  Cavity Insulation – Use either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11  None  2) 1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 4 Any noncombustible insulation per ASTM E136  Use only exterior sheathing option 1.  Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7 Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite.  8) NCFI InsulBloc SPF (up to full cavity thickness)  9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing)  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11)½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing –  Use either 1 or 2  WRB Over Base Wall  Surface – use any item  1-9  AirMax 2101 NP SB  4) HydroMax 2002 SB  5) AirMax 2102 NP SB  4) HydroMax 2003 WB  7) AirMax 2104 VP WB  8) AirMax 2105 VP SB  9) Climate Tech  1) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings  2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	Fire-Stonning at Floor	1)	
2) Solid FRTW fire blocking at floor line in accordance with building code requirements for Type III construction.  1) None either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11 2) 1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 2 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 3 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 3 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 4 Any noncombustible insulation per ASTM E136 5 ANY Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) 6 Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7 Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite.  8) NCFI InsulBloc SPF (up to full cavity thickness) 9 Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11½" (min.) ThermoSeal 2000 (up to full cavity thickness) 11½" (min.) ThermoSeal 2000 (up to full cavity thickness) 11½" (min.) FRTW structural panels in Type III construction. 14 AirMax 2101 NP SB 14 HydroMax 2001 SB 14 HydroMax 2001 SB 14 HydroMax 2002 SB 15 AirMax 2103 NP WB 16 HydroMax 2003 WB 16 HydroMax 2003 WB 17 AirMax 2104 VP WB 18 AirMax 2105 VP SB 19 Climate Tech 14 HydroMax 2005 Cladding. 14 AirMax 2105 VP SB 19 Climate Tech 14 HydroMax 2005 Cladding. 14 AirMax 2105 VP SB 19 Climate Tech 14 AirMax		1)	
code requirements for Type III construction.  Cavity Insulation – Use either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11  Use only exterior sheathing option 1.  Any floar plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Wallitte.  NCFI InsulBloc SPF (up to full cavity thickness) 10 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Wallitte.  NCFI InsulBloc SPF (up to full cavity thickness) 10 kyenen MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10 SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness) 11 yi'' or thicker exterior gypsum sheathing 1-9 2 yi'' (min.) FRTW structural panels in Type III construction.  Exterior Sheathing – 1 AirMax 2101 NP SB 1 HydroMax 2002 SB 1 AirMax 2103 NP WB 1 HydroMax 2003 WB 1 AirMax 2103 NP WB 1 HydroMax 2003 WB 1 AirMax 2104 VP WB 1 AirMax 2105 VP SB 1 Climate Tech 1 AirMax 2105 VP SB 1 Climate Tech 2 With all claddings 2 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.) with all claddings 2 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	Lines	2)	
Cavity Insulation – Use either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11  1) None 2) 1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 3) 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 4) Any noncombustible insulation per ASTM E136 5) Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) 6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 8) NCFI InsulBloc SPF (up to full cavity thickness) 9) Icynene MD-C-20003 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  WRB Over Base Wall Surface – use any item 1-9  1) AirMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2102 NP SB 4) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding. 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)		2)	
either: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11  Use only exterior sheathing option 1.  Use only exterior sheathing option 1.  Discontinuous Exterior Sheathing — Use either 1 or 2  WRB Over Base Wall Surface — use any item 1-9  Exterior Insulation — Use 1 or 2 depending on claddding.  12 1½" (min.) of Covestro EcoBay CC SPF (up to full cavity thickness) 11½" (min.) of BASF Walltite SPF (up to full cavity thickness) 4 Any noncombustible insulation per ASTM E136  Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) 6 Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7 Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite.  8) NCFI InsulBloc SPF (up to full cavity thickness) 9 Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing)  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11) ½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing — Use either 1 or 2  WRB Over Base Wall  1) AirMax 2101 NP SB  2) HydroMax 2001 SB  3) AirMax 2102 NP SB  4) HydroMax 2002 SB  5) AirMax 2103 NP WB  6) HydroMax 2003 WB  7) AirMax 2104 VP WB  8) AirMax 2105 VP SB  9) Climate Tech  Exterior Insulation — Use 1 or 2 depending on cladding.  1) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings  2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	Cavity Insulation - Use	1)	·
3) 1½" (min.) of BASF Walltite SPF (up to full cavity thickness) 4) Any noncombustible insulation per ASTM E136 5) Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) 6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 8) NCFI InsulBloc SPF (up to full cavity thickness) 9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) ½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2 11) AirMax 2101 NP SB 22) Y" (min.) FRTW structural panels in Type III construction.  WRB Over Base Wall Surface – use any item 1-9 11) AirMax 2101 NP SB 22) HydroMax 2001 SB 33) AirMax 2103 NP WB 44) HydroMax 2003 WB 54) AirMax 2103 NP WB 65) AirMax 2103 NP WB 66) HydroMax 2003 WB 76) AirMax 2105 VP SB 77) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding. 11) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 20) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	_		
4) Any noncombustible insulation per ASTM E136  Use only exterior sheathing option 1.  4) Any foneral Fiber (Board type Class A ASTM E84 faced or unfaced)  6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced)  7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite.  8) NCFI InsulBloc SPF (up to full cavity thickness)  9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing)  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing –  Use either 1 or 2  WRB Over Base Wall Surface – use any item  1-9  10) AirMax 2101 NP SB  21) HydroMax 2001 SB  32) AirMax 2102 NP SB  43) AirMax 2103 NP WB  44) HydroMax 2003 WB  75) AirMax 2104 VP WB  86) HydroMax 2003 WB  76) AirMax 2105 VP SB  97) Climate Tech  Exterior Insulation –  Use 1 or 2 depending on cladding.		*	
Use only exterior sheathing option 1.  5) Any Mineral Fiber (Board type Class A ASTM E84 faced or unfaced) 6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite. 8) NCFI InsulBloc SPF (up to full cavity thickness) 9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) ½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  WRB Over Base Wall Surface – use any item 1-9  1) AirMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2102 NP SB 4) HydroMax 2003 WB 6) HydroMax 2003 WB 7) AirMax 2103 NP WB 8) AirMax 2103 NP WB 8) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	0, 0, 10 01 11		
sheathing option 1.  6) Any Fiberglass (Batt Type Class A ASTM E84 faced or unfaced) 7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite.  8) NCFI InsulBloc SPF (up to full cavity thickness) 9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  WRB Over Base Wall Surface – use any item 1-9  3) AirMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2103 NP WB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2103 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  Exterior Insulation – Use 1 or 2 depending on cladding.	Use only exterior		
7) Any foam plastic insulation (SPF or board type) which has been tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite.  8) NCFI InsulBloc SPF (up to full cavity thickness)  9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing)  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11) ½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  1) ½" or thicker exterior gypsum sheathing 2) ½" (min.) FRTW structural panels in Type III construction.  WRB Over Base Wall Surface – use any item 1-9  1) AirMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2102 NP SB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  1) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)		,	
tested per ASTM E1354 (at a minimum of 20 kW/m² heat flux) and shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite.  8) NCFI InsulBloc SPF (up to full cavity thickness)  9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing)  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  WRB Over Base Wall Surface – use any item  1-9  1) AirMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2102 NP SB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  1) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	sheating option 1.		
shown by analysis to be less flammable (improved Tign, Pk. HRR) than Covestro EcoBay CC or BASF Walltite.  8) NCFI InsulBloc SPF (up to full cavity thickness)  9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing)  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11) ½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  WRB Over Base Wall Surface – use any item  1-9  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11) ½" (min.) ThermoSeal 2000 (up to full cavity thickness)  12) ½" or thicker exterior gypsum sheathing  13) AirMax 2101 NP SB  14) HydroMax 2001 SB  15) AirMax 2101 NP SB  16) HydroMax 2001 SB  17) AirMax 2102 NP SB  18) AirMax 2103 NP WB  19) AirMax 2103 NP WB  19) AirMax 2103 VP SB  20) AirMax 2103 VP SB  21) AirMax 2104 VP WB  22) AirMax 2105 VP SB  23) AirMax 2105 VP SB  24) Climate Tech  Exterior Insulation –  Use 1 or 2 depending on cladding.  11) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings  22) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)		1)	
than Covestro EcoBay CC or BASF Walltite.  8) NCFI InsulBloc SPF (up to full cavity thickness)  9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing)  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  WRB Over Base Wall Surface – use any item 1-9  10) W" (min.) FRTW structural panels in Type III construction.  11) AirMax 2101 NP SB 12) HydroMax 2001 SB 13) AirMax 2102 NP SB 14) HydroMax 2002 SB 15) AirMax 2103 NP WB 16) HydroMax 2003 WB 17) AirMax 2104 VP WB 18) AirMax 2104 VP WB 18) AirMax 2105 VP SB 19) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  11) 4¼" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)			
8) NCFI InsulBloc SPF (up to full cavity thickness) 9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2 Use either 2 Use either 3 Use either 4 or 2 Use either 5 Use either 6 Use either 9 Use either 9 Use either 1 or 2 Use either 2 Use either 1 or 2 Use either 2 und exceeding 2 Use either 2 und exceeding 2 Use either 2	- )		
9) Icynene MD-C-200v3 (Proseal) up to 5½ inches (only with ½ in. (min.) exterior gypsum sheathing) 10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches. 11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  WRB Over Base Wall Surface – use any item 1-9  1) AirMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2102 NP SB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with 12 in. (min.) exterior gypsum sheathing 2½ inches. 11) ½" (min.) ThermoSeal 2000 (up to full cavity thickness)  12) ½" (min.) FRTW structural panels in Type III construction.  13) AirMax 2101 NP SB 24) HydroMax 2001 SB 35) AirMax 2102 NP SB 46) HydroMax 2003 WB 36) AirMax 2103 NP WB 37) AirMax 2104 VP WB 38) AirMax 2105 VP SB 39) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  11) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 20) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)		8)	
(min.) exterior gypsum sheathing)  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  WRB Over Base Wall Surface – use any item 1-9  1) AirMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2102 NP SB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavity thickness)  11) ½" (min.) ThermoSeal 2000 (up to full cavity thickness)  12) ½" (min.) FRTW structural panels in Type III construction.  13) AirMax 2101 NP SB 24) HydroMax 2002 SB 35) AirMax 2102 NP SB 46) HydroMax 2003 WB 77) AirMax 2104 VP WB 88) AirMax 2105 VP SB 99) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  14) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 20) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)			
10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities with an air gap not exceeding 2½ inches.  11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  WRB Over Base Wall Surface – use any item 1-9  1) AirMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2102 NP SB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  10) SWD Urethane Quik-Shield 112 up to 6 inches in 6 inch (max.) stud cavities in 7½" (min.) FRTW structural panels in Type III construction.  1) 4ir (min.) FRTW structural panels in Type III construction.  1) 4ir (min.) FRTW structural panels in 7ype III construction.		0)	
cavities with an air gap not exceeding 2½ inches.  11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing – Use either 1 or 2  2) ½" (min.) FRTW structural panels in Type III construction.  WRB Over Base Wall Surface – use any item 1-9  3) AirMax 2101 NP SB 4) HydroMax 2001 SB 3) AirMax 2102 NP SB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness) 12) inches. 13) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness) 14½" (min.) ThermoSeal 2000 (up to full cavity thickness) 15) ½" (min.) FRTW structural panels in Type III construction.  16) AirMax 2101 NP SB 17) AirMax 2102 NP SB 18) HydroMax 2002 SB 19) Climate 2003 WB 19) Climate 700 SB 10) AirMax 2104 VP WB 10) AirMax 2105 VP SB 11) AirMax 2105 VP SB 12) Climate Tech 13) AirMax 2105 VP SB 14) AirMax 2105 VP SB 15) Climate Tech 16) AirMax 2105 VP SB 17) AirMax 2105 VP SB 18) Climate Tech 19) AirMax 2105 VP SB 20) Climate Tech 21) AirMax 2105 VP SB 21) AirMax 2105 VP SB 22) AirMax 2105 VP SB 23) AirMax 2105 VP SB 24) AirMax 2105 VP SB 25) Climate Tech 26) AirMax 2105 VP SB 27) AirMax 2105 VP SB 28) Climate Tech 29) AirMax 2105 VP SB 20) Climate Tech 20) AirMax 2105 VP SB 21) AirMax 2105 VP SB 22) AirMax 2105 VP SB 23) AirMax 2105 VP SB 24) AirMax 2105 VP SB 25) AirMax 2105 VP SB 26) AirMax 2105 VP SB 27) AirMax 2105 VP SB 28) Climate Tech 29) AirMax 2105 VP SB 20) AirMax 2105 VP SB 21) AirMax 2105 VP SB 22) AirMax 2105 VP SB 23) AirMax 2105 VP SB 24) AirMax 2105 VP SB 25) AirMax 2105 VP SB 26) AirMax 2105 VP SB 27) AirMax 2105 VP SB 28) AirMax 2105 VP SB 29) Climate Tech 20) AirMax 2105 VP SB 20) AirMax 2105 VP SB 21) AirMax 2105 VP SB 22) AirMax 2105 VP SB 23) AirMax 2105 VP SB 24) AirMax 2105 VP SB 25) AirMax 2105 VP SB 26) AirMax 2105 VP SB 27) AirMax 2105 VP SB 28) AirMax 2105 VP SB 29) AirMax 2105 VP SB 20) AirMax 2105 VP SB 21) AirMax 2105 VP		10)	
11) 1½" (min.) ThermoSeal 2000 (up to full cavity thickness)  Exterior Sheathing -		10)	
Exterior Sheathing –  Use either 1 or 2  WRB Over Base Wall Surface – use any item  1-9  3 AirMax 2101 NP SB 4 HydroMax 2002 SB 5 AirMax 2103 NP WB 6 HydroMax 2003 WB 7 AirMax 2104 VP WB 8 AirMax 2105 VP SB 9 Climate Tech  Exterior Insulation –  Use 1 or 2 depending on cladding.  1) ½" or thicker exterior gypsum sheathing 2) ½" (min.) FRTW structural panels in Type III construction.  1) ½" or thicker exterior gypsum sheathing 2) ½" (min.) FRTW structural panels in Type III construction.  1) AirMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2102 NP SB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  2) ½" (min.) FRTW structural panels in Type III construction.  1) AirMax 2101 NP SB 2) HydroMax 2001 SB 3) AirMax 2102 NP SB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  2) ½" (min.) FRTW structural panels in Type III construction.		11)	
Use either 1 or 2  WRB Over Base Wall Surface – use any item 1-9  1 AirMax 2101 NP SB 2 HydroMax 2001 SB 3 AirMax 2102 NP SB 4 HydroMax 2002 SB 5 AirMax 2103 NP WB 6 HydroMax 2003 WB 7 AirMax 2104 VP WB 8 AirMax 2105 VP SB 9 Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  2 '½" (min.) FRTW structural panels in Type III construction.  1 AirMax 2101 NP SB 2 HydroMax 2001 SB 3 AirMax 2102 NP SB 5 AirMax 2103 NP WB 8 AirMax 2103 VP WB 8 AirMax 2105 VP SB 9 Climate Tech 2 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	Exterior Sheathing –	-	<u> </u>
WRB Over Base Wall Surface – use any item 1-9 3			
Surface - use any item   2			
1-9  3) AirMax 2102 NP SB 4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding. 1) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)		,	
4) HydroMax 2002 SB 5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding. 1) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	1-9		
5) AirMax 2103 NP WB 6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding. 1) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	1431	,	
6) HydroMax 2003 WB 7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding. 1) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)		,	
7) AirMax 2104 VP WB 8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding. 1) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)			
8) AirMax 2105 VP SB 9) Climate Tech  Exterior Insulation – Use 1 or 2 depending on cladding.  1) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)			
9) Climate Tech  Exterior Insulation –  Use 1 or 2 depending on cladding.  1) 4½" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.) with all claddings  2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)		,	
Use 1 or 2 depending on claddings 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	2902224 7.5 2 2 2 2	9)	Climate Tech
cladding. 2) 4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)	Exterior Insulation –	1)	4¼" (max.) Xci Ply (Class A) (3½" foam max., ¾" FR Plywood max.)
	Use 1 or 2 depending on	Line Cont	with all claddings
1 11 1 11	cladding.	2)	4¾" (max.) Xci Ply (Class A) (4" foam max., ¾" FR Plywood max.)
may be used with claddings 1 - 6			may be used with claddings 1 - 6



Number: UEL-5032

Originally Issued: 08/15/2019 Revised: 08/17/2022 Valid Through: 08/31/2023

Exterior Cladding - Use
either 1, 2, 3, 4, 5, 6, 7,
8, 9, 10, 11, 12, 13, 14,
15, 16 or 17

Item 9 may use any tested/approved installation technique.

Items 10, 11 or 14 may use any standard installation technique.

- Brick Nominal 4" clay or concrete brick or veneer with maximum 2" air gap behind the brick. Brick Ties/Anchors 24" OC (max.)
- 2) Stucco minimum ¾" thick exterior cement plaster and lath with an optional secondary water resistive barrier between the exterior insulation and lath. The secondary barrier shall not be full coverage asphalt or self-adhered butyl membrane.
- 3) Limestone minimum 2" thick using any standard non-open joint installation technique such as shiplap
- Natural Stone Veneer minimum 2" thick using any standard nonopen joint installation technique such as grouted/mortared stone
- Cast Artificial Stone minimum 1½" thick complying with ICC-ES AC 51 using any standard non-open joint installation technique such as shiplap.
- 6) Terra Cotta Cladding minimum 1½" thick (solid or equivalent by weight) using any standard non-open joint installation technique such as shiplap
- Thin brick/cultured stone set in thin set adhesive and metal lath that has been tested to ASTM E119 (brick exposed to furnace) and

remains in place for a minimum of 30 minutes, or has passed an NFPA 285 test. Minimum  $^3\!4$ " with an optional secondary water resistive barrier between the exterior insulation and lath. The secondary barrier shall not be full coverage asphalt or self-adhered butyl membrane.

- 8) Glen Gery Thin Tech Elite Series Masonry Veneer or TABS II Panel System with ½" thick bricks using TABS Wall Adhesive
- 9) Any MCM that has successfully passed NFPA 285
- Uninsulated sheet metal building panels including steel, copper, aluminum
- 11) 1/4" (min.) uninsulated fiber-cement siding or porcelain or ceramic tile mechanically attached
- Stone, porcelain, ceramic/aluminum honeycomb composite building panels that have successfully passed NFPA 285 criteria
- Autoclaved-aerated-concrete (AAC) panels that have successfully passed NFPA 285 criteria
- 14) Terra Cotta Cladding Any Rain-screen Terra Cotta (min. ½ " thick) with ventilated shiplap
- 15) ½" Stucco Any one coat stucco (½" min.) which meets AC11 acceptance criteria or is approved for use in Type I-IV construction or has been tested per NFPA 285 or stays in place when tested per ASTM E119 (stucco exposed to fire) for at least 30 minutes
- 16) Natural Stone Veneer minimum 1¼" thick using any standard installation technique
- 17) FunderMax M.Look Grey Core minimum ¼ inch thick using any standard installation technique