



# Xci CG (Class A), Xci Ply (Class A), Xci Foil (Class A), Xci 286 NFPA 285 APPROVED WALL ASSEMBLIES

## NFPA 285 Approved Wall Assemblies with Xci Foil (Class A) or Xci 286 Exterior Insulation

Wall Component	Materials
Base Wall - Use 1, 2, 3 or 4	1 - Cast Concrete Walls 2 - CMU Concrete Walls 3 - 25-gauge min. 3 5/8" (min.) steel studs spaced 24" o.c. (max.) a. 5/8" Type X gypsum wallboard interior b. Lateral bracing every 4' 4 - FRTW (fire-retardant-treated wood) studs: min. nominal 2x4 dimension, spaced 24" o.c. (max.) a. 5/8" Type X gypsum wallboard interior b. Bracing as required by code
Fire-Stopping at Floor Lines	1 - Any approved mineral-fiber-based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth. 2 - Soild 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  Items 8, 9, 10 and 11 may only be used with exterior sheathing 2.	1 - None 2 - 1 1/2" (min.) of Carlisle SPI SealTite PRO (up to full cavity thickness) 3 - 1 1/2" (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) that has been tested per ASTM E1354 (at a min. of 20 kW/m <sup>2</sup> 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 5 1/2" (only with 1/2" [min.] exterior gypsum sheathing) 10 - SWD Urethane Quik-Shiled 112 up to 6 inch (max.) stud cavities with an air gap not exceeding 2 1/2" 11 - 1 1/2" (min.) ThermoSeal 2000 (up to full cavity thickness)
Exterior Sheathing Use either 1, 2 or 3	1 - None (only with cavity insulation 1, 2, 3, 4, 5 or 6) 2 - 1/2" or thicker exterior gypsum sheathing 3 - 1/2" (min.) FRTW structural panels in Type III construction
Multi-Function Sheathing & WRB Products Use 1 or 2	1 - USG Securock® Exoair® 430 System 2 - 5/8" Georgia Pacific DensElement, flashing with Prosoco R-Guard FastFlash on sheathing joints Note: Item 1 or 2 replaces the exterior sheathings above. When either of these items are used, do not use exterior sheathings or WRB's on base wall surface in Table 9
WRB Over Base Wall Surface	1 - None 2 - W. R. MEADOWS AIR-SHIELD LMP (Gray) 3 - W. R. MEADOWS AIR-SHIELD LMP (Black) 4 - W. R. MEADOWS AIR-SHIELD TMP 5 - W. R. MEADOWS AIR-SHIELD LSR
Exterior Insulation Use either 1 or 2 depending on cladding	1 - 3 1/2"-thick (max.) Xci Foil (Class A) or Xci-286 for all claddings. 2 - 4" thick Xci Foil (Class A) or Xci-286 for claddings 1-6  Note: A construction which utilizes no exterior sheathing may not use spray foam cavity insulation



# Xci CG (Class A), Xci Ply (Class A), Xci Foil (Class A), Xci 286 NFPA 285 APPROVED WALL ASSEMBLIES

## NFPA 285 Approved Wall Assemblies with Xci Foil (Class A) or Xci 286 Exterior Insulation

Wall Component	Materials
WRB Over Exterior Insulation	<ol style="list-style-type: none"> <li>1 - None</li> <li>2 - W. R. MEADOWS AIR-SHIELD LMP (Gray)</li> <li>3 - W. R. MEADOWS AIR-SHIELD LMP (Black)</li> <li>4 - W. R. MEADOWS AIR-SHIELD TMP</li> <li>5 - W. R. MEADOWS AIR-SHIELD LSR</li> </ol>
<p>Exterior Cladding                      Use either 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 or 17</p> <p>Item 7 may use any tested/approved installation technique.</p> <p>Items 8, 9, or 12 may use any standard installation technique.</p>	<ol style="list-style-type: none"> <li>1 - Brick - Nominal 4"-thick, clay or concrete brick or veneer with maximum 2" air gap behind the brick. Brick ties/Anchors 24" o.c. (max.)</li> <li>2 - Stucco - Minimum 3/4"-thick, exterior cement plaster and lath. For systems that require a more durable WRB system, any building wrap or 15# felt that meets requirement #12 in WRB Over Exterior Insulation can be used as a ship sheet between the WRB/external insulation and the lath.</li> <li>3 - Limestone - Minimum 2" thick using any standard non-open joint installation technique such as shiplap.</li> <li>4 - Natural stone veneer - Minimum 2" thick using any standard non-open joint installation technique such as grouted/mortared stone.</li> <li>5 - Cast Artificial Stone - Minimum 1 1/2" thick complying with ICC-ES AC 51 using any standard non-open joint installation technique such as shiplap.</li> <li>6 - Terra Cotta Cladding - Minimum 1 1/4" thick (solid or equivalent by weight) using any standard open or non-open joint installation technique such as shiplap.</li> <li>7 - Any MCM that has passed NFPA 285.</li> <li>8 - Uninsulated sheet metal building panels including steel, copper, aluminum or zinc.</li> <li>9 - 1/4" (min.) uninsulated fiber-cement siding, or porcelain or ceramic tile mechanically attached.</li> <li>10 - Stone, porcelain, ceramic/aluminum honeycomb composite building panels that have successfully passed NFPA 285 criteria.</li> <li>11 - Autoclaved-aerated-concrete (AAC) panels that have successfully passes NFPA 285 criteria.</li> <li>12 - Terra Cotta Cladding - Any Rain-screen Terra Cotta (min. 1/2" thick) with ventilated shiplap.</li> <li>13 - 1/2" Stucco - Any one coat stucco (1/2" min.) that 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.</li> <li>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 a NFPA 285 test. Minimum 3/4". For these systems that require a more durable WRB system, any building wrap or 15# felt that meets requirement #9 in WRB Over Exterior Insulation (Table 9) can be used as a slip sheet between the WRB/AVP and the lath.</li> <li>15 - Glen Gery Thin Tech Elite Series Masonry Veneer or TABS II Panel System with 1/2"-thick bricks using TABS Wall Adhesive.</li> <li>16 - Natural Stone Veneer - minimum 1 1/4" thick using any standard installation technique.</li> <li>17 - FunderMax M.Lock - minimum 1/4" thick using any standard installation technique.</li> </ol>



# Xci CG (Class A), Xci Ply (Class A), Xci Foil (Class A), Xci 286 NFPA 285 APPROVED WALL ASSEMBLIES

## NFPA 285 Approved Wall Assemblies with Xci CG (Class A) Exterior Insulation

Wall Component	Materials
Base Wall - Use 1, 2, 3 or 4	1 - Cast Concrete Walls 2 - CMU Concrete Walls 3 - 25-gauge min. 3 5/8" (min.) steel studs spaced 24" o.c. (max.) a. 5/8" Type X gypsum wallboard interior b. Lateral bracing every 4' 4 - FRTW (fire-retardant-treated wood) studs: min. nominal 2x4 dimension, spaced 24" o.c. (max.) a. 5/8" Type X gypsum wallboard interior b. Bracing as required by code
Fire-Stopping at Floor Lines	1 - Any approved mineral-fiber-based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth. 2 - Soild 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  Items 8, 9, 10 and 11 may only be used with exterior sheathing 2.	1 - None 2 - 1 1/2" (min.) of Carlisle SPI SealTite PRO (up to full cavity thickness) 3 - 1 1/2" (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) that has been tested per ASTM E1354 (at a min. of 20 kW/m <sup>2</sup> 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 5 1/2" (only with 1/2" [min.] exterior gypsum sheathing) 10 - SWD Urethane Quik-Shiled 112 up to 6 inch (max.) stud cavities with an air gap not exceeding 2 1/2" 11 - 1 1/2" (min.) ThermoSeal 2000 (up to full cavity thickness)
Exterior Sheathing Use either 1, 2 or 3	1 - None (only with claddings, and cavity insulation 1, 2, 3, 4, 5, 6 or 11) 2 - 1/2" or thicker exterior gypsum sheathing 3 - 1/2" (min.) FRTW structural panels in Type III construction
Multi-Function Sheathing & WRB Products Use 1 or 2	1 - USG Securock® Exoair® 430 System 2 - 5/8" Georgia Pacific DensElement, flashing with Prosoco R-Guard FastFlash on sheathing joints Note: Item 1 or 2 replaces the exterior sheathings above. When either of these items are used, do not use exterior sheathings or WRB's on base wall surface in Table 9
WRB Over Base Wall Surface	1 - None 2 - W. R. MEADOWS AIR-SHIELD LMP (Gray) 3 - W. R. MEADOWS AIR-SHIELD LMP (Black) 4 - W. R. MEADOWS AIR-SHIELD TMP 5 - W. R. MEADOWS AIR-SHIELD LSR
Exterior Insulation Use either 1 or 2 depending on cladding	1 - 3 1/2"-thick (max.) Xci CG or Xci CG (Class A) for all claddings. 2 - 4"-thick (max.) Xci CG or Xci CG (Class A) for claddings 1-6.  Note: A construction which utilizes no exterior sheathing may not use spray foam cavity insulation



# Xci CG (Class A), Xci Ply (Class A), Xci Foil (Class A), Xci 286 NFPA 285 APPROVED WALL ASSEMBLIES

## NFPA 285 Approved Wall Assemblies with Xci CG (Class A) Exterior Insulation

Wall Component	Materials
WRB Over Exterior Insulation	<ol style="list-style-type: none"> <li>1 - None</li> <li>2 - W. R. MEADOWS AIR-SHIELD LMP (Gray)</li> <li>3 - W. R. MEADOWS AIR-SHIELD LMP (Black)</li> <li>4 - W. R. MEADOWS AIR-SHIELD TMP</li> <li>5 - W. R. MEADOWS AIR-SHIELD LSR</li> </ol>
<p>Exterior Cladding                      Use either 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 or 17</p> <p>Item 7 may use any tested/approved installation technique.</p> <p>Items 8, 9, or 12 may use any standard installation technique.</p>	<ol style="list-style-type: none"> <li>1 - Brick - Nominal 4"-thick, clay or concrete brick or veneer with maximum 2" air gap behind the brick. Brick ties/Anchors 24" o.c. (max.)</li> <li>2 - Stucco - Minimum 3/4"-thick, exterior cement plaster and lath. For systems that require a more durable WRB system, any building wrap or 15# felt that meets requirement #12 in WRB Over Exterior Insulation can be used as a slip sheet between the WRB/external insulation and the lath.</li> <li>3 - Limestone - Minimum 2" thick using any standard non-open joint installation technique such as shiplap.</li> <li>4 - Natural stone veneer - Minimum 2" thick using any standard non-open joint installation technique such as grouted/mortared stone.</li> <li>5 - Cast Artificial Stone - Minimum 1 1/2" thick complying with ICC-ES AC 51 using any standard non-open joint installation technique such as shiplap.</li> <li>6 - Terra Cotta Cladding - Minimum 1 1/4" thick (solid or equivalent by weight) using any standard open or non-open joint installation technique such as shiplap.</li> <li>7 - Any MCM that has passed NFPA 285.</li> <li>8 - Uninsulated sheet metal building panels including steel, copper, aluminum (or zinc only with Xci CG [Class A])</li> <li>9 - 1/4" (min.) uninsulated fiber-cement siding, or porcelain or ceramic tile mechanically attached.</li> <li>10 - Stone, porcelain, ceramic/aluminum honeycomb composite building panels that have successfully passed NFPA 285 criteria.</li> <li>11 - Autoclaved-aerated-concrete (AAC) panels that have successfully passes NFPA 285 criteria.</li> <li>12 - Terra Cotta Cladding - Any Rain-screen Terra Cotta (min. 1/2" thick) with ventilated shiplap.</li> <li>13 - 1/2" Stucco - Any one coat stucco (1/2" min.) that 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.</li> <li>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 a NFPA 285 test. Minimum 3/4". For these systems that require a more durable WRB system, any building wrap or 15# felt that meets requirement #9 in WRB Over Exterior Insulation (Table 9) can be used as a slip sheet between the WRB/AVP and the lath.</li> <li>15 - Glen Gery Thin Tech Elite Series Masonry Veneer or TABS II Panel System with 1/2"-thick bricks using TABS Wall Adhesive.</li> <li>16 - Natural Stone Veneer - minimum 1 1/4" thick using any standard installation technique.</li> <li>17 - FunderMax M.Lock - minimum 1/4" thick using any standard installation technique.</li> </ol>





# Xci CG (Class A), Xci Ply (Class A), Xci Foil (Class A), Xci 286 NFPA 285 APPROVED WALL ASSEMBLIES

## NFPA 285 Approved Wall Assemblies with Xci Ply (Class A) Exterior Insulation

Wall Component	Materials
Base Wall - Use 1, 2, 3 or 4	1 - Cast Concrete Walls 2 - CMU Concrete Walls 3 - 25-gauge min. 3 5/8" (min.) steel studs spaced 24" o.c. (max.) a. 5/8" Type X gypsum wallboard interior b. Lateral bracing every 4' 4 - FRTW (fire-retardant-treated wood) studs: min. nominal 2x4 dimension, spaced 24" o.c. (max.) a. 5/8" Type X gypsum wallboard interior b. Bracing as required by code
Fire-Stopping at Floor Lines	1 - Any approved mineral-fiber-based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth. 2 - Soild 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  Items 8, 9, 10 and 11 may only be used with exterior sheathing 2.	1 - None 2 - 1 1/2" (min.) of Carlisle SPI SealTite PRO (up to full cavity thickness) 3 - 1 1/2" (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) that has been tested per ASTM E1354 (at a min. of 20 kW/m <sup>2</sup> 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 5 1/2" (only with 1/2" [min.] exterior gypsum sheathing) 10 - SWD Urethane Quik-Shiled 112 up to 6 inch (max.) stud cavities with an air gap not exceeding 2 1/2" 11 - 1 1/2" (min.) Thermoseal 2000 (up to full cavity thickness)
Exterior Sheathing Use either 1, 2 or 3	1 - None (only with cavity insulation 1, 2, 4, 5 or 6) 2 - 1/2" or thicker exterior gypsum sheathing 3 - 1/2" (min.) FRTW structural panels in Type III construction
Multi-Function Sheathing & WRB Products Use 1 or 2	1 - USG Securock® Exoair® 430 System 2 - 5/8" Georgia Pacific DensElement, flashing with Prosoco R-Guard FastFlash on sheathing joints Note: Item 1 or 2 replaces the exterior sheathings above. When either of these items are used, do not use exterior sheathings or WRB's on base wall surface in Table 9
WRB Over Base Wall Surface	1 - None 2 - W. R. MEADOWS AIR-SHIELD LMP (Gray) 3 - W. R. MEADOWS AIR-SHIELD LMP (Black) 4 - W. R. MEADOWS AIR-SHIELD TMP 5 - W. R. MEADOWS AIR-SHIELD LSR
Exterior Insulation Use either 1 or 2 depending on cladding	1 - 4 1/4"-thick (max.) Xci Ply (Class A) (3 1/2" foam max., 3/4" FR Plywood max.) with all claddings. 2 - 4 3/4"-thick (max.) Xci Ply (Class A) (4" foam max., 3/4" FR Plywood max.) may be used with claddings 1-6.

# Xci CG (Class A), Xci Ply (Class A), Xci Foil (Class A), Xci 286 NFPA 285 APPROVED WALL ASSEMBLIES

## NFPA 285 Approved Wall Assemblies with Xci Ply (Class A) Exterior Insulation

Wall Component	Materials
<p>WRB Over Exterior Insulation</p>	<ol style="list-style-type: none"> <li>1 - None</li> <li>2 - W. R. MEADOWS AIR-SHIELD LMP (Gray)</li> <li>3 - W. R. MEADOWS AIR-SHIELD LMP (Black)</li> <li>4 - W. R. MEADOWS AIR-SHIELD TMP</li> <li>5 - W. R. MEADOWS AIR-SHIELD LSR</li> </ol>
<p>Exterior Cladding Use either 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 or 17</p> <p>Item 9 may use any tested/approved installation technique.</p> <p>Items 10, 11 or 14 may use any standard installation technique.</p>	<ol style="list-style-type: none"> <li>1 - Brick - Nominal 4"-thick, clay or concrete brick or veneer with maximum 2" air gap behind the brick. Brick ties/Anchors 24" o.c. (max.)</li> <li>2 - Stucco - Minimum 3/4"-thick, exterior cement plaster and lath. For systems that require a more durable WRB system, any building wrap or 15# felt that meets requirement #9 in WRB Over Exterior Insulation can be used as a slip sheet between the WRB/external insulation and the lath.</li> <li>3 - Limestone - Minimum 2" thick using any standard non-open joint installation technique such as shiplap.</li> <li>4 - Natural stone veneer - Minimum 2" thick using any standard non-open joint installation technique such as grouted/mortared stone.</li> <li>5 - Cast Artificial Stone - Minimum 1 1/2" thick complying with ICC-ES AC 51 using any standard non-open joint installation technique such as shiplap.</li> <li>6 - Terra Cotta Cladding - Minimum 1 1/4" thick (solid or equivalent by weight) using any standard open or non-open joint installation technique such as shiplap.</li> <li>7 - 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 a NFPA 285 test. Minimum 3/4". For these systems that require a more durable WRB system, any building wrap or 15# felt that meets requirement #9 in WRB Over Exterior Insulation (Table 9) can be used as a slip sheet between the WRB/AVP and the lath.</li> <li>8 - Glen Gery Thin Tech Elite Series Masonry Veneer or TABS II Panel System with 1/2"-thick bricks using TABS Wall Adhesive.</li> <li>9 - Any MCM that has passed NFPA 285.</li> <li>10 - Uninsulated sheet metal building panels including steel, copper, aluminum (or zinc only with Xci Ply [Class A])</li> <li>11 - 1/4" (min.) uninsulated fiber-cement siding, or porcelain or ceramic tile mechanically attached.</li> <li>12 - Stone, porcelain, ceramic/aluminum honeycomb composite building panels that have successfully passed NFPA 285 criteria.</li> <li>13 - Autoclaved-aerated-concrete (AAC) panels that have successfully passes NFPA 285 criteria.</li> <li>14 - Terra Cotta Cladding - Any Rain-screen Terra Cotta (min. 1/2" thick) with ventilated shiplap.</li> <li>15 - 1/2" Stucco - Any one coat stucco (1/2" min.) that 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.</li> <li>16 - Natural Stone Veneer - minimum 1 1/4" thick using any standard installation technique.</li> <li>17 - FunderMax M.Lock - minimum 1/4" thick using any standard installation technique.</li> </ol>

**W. R. MEADOWS.**

**SEALTIGHT**

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QUALITY...SERVICE...INTEGRITY

# Xci CG (Class A), Xci Ply (Class A), Xci Foil (Class A), Xci 286 NFPA 285 APPROVED WALL ASSEMBLIES

## NFPA 285 Approved Mass Wall Assemblies with Xci as Interior Insulation

Wall Component	Materials
Base Wall - Use either 1 or 2	1 - Cast Concrete Walls (min. 2" thick) 2 - CMU Concrete Walls (min. 4" thick)
Exterior Coating - Use either 1, 2, 3 or 4	1 - Portland cement or lime stucco 2 - Any ASTM E84 Class A Paint or Elastomeric Coating 3 - Any ASTM E84 Class A Clear Sealer 4 - None
Air/Vapor Barrier Membrane Position 1 Over Base Wall Interior	1 - None 2 - W. R. MEADOWS AIR-SHIELD LMP (Gray) 3 - W. R. MEADOWS AIR-SHIELD LMP (Black) 4 - W. R. MEADOWS AIR-SHIELD TMP 5 - W. R. MEADOWS AIR-SHIELD LSR Note: Some WRBs are only allowed with specific systems.
Continuous Insulation - Use 1, 2, 3	1 - Xci Foil (Class A) (or Xci-286), 3 1/2" thick (max.) 2 - Xci CG (Class A) or Xci CG, 3 1/3" thick (max.) 3 - Xci Foil, 3 1/3" thick (max.)
Air/Vapor Barrier Membrane Position 2 Over Insulation	1 - None 2 - W. R. MEADOWS AIR-SHIELD LMP (Gray) 3 - W. R. MEADOWS AIR-SHIELD LMP (Black) 4 - W. R. MEADOWS AIR-SHIELD TMP 5 - W. R. MEADOWS AIR-SHIELD LSR Note: Insulation Joints may be taped with Foil-Grip 1402, 4" width (max.) Note: Some WRBs are only allowed with specific systems.
Interior Cladding	1 - 5/8" type X interior gypsum sheathing installed directly over the insulation or installed over metal hat or Z furring, max. 2" depth air gap. If an air gap is created, fire blocking per IBC Section 718 should be installed.

Information obtained from Hunter Panels LLC Technical Evaluation Report 1402-01

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