

Per Chapter 26 of the International Building Code, the wall assembly shall be tested in accordance with and comply with the acceptance criteria of NFPA 285. The listed assemblies in this document have met those criteria.

CARLISLE PREMIER+ WALL SYSTEM

<p>BASE WALL SYSTEM</p> <p>Use item 1, 2, 3, or 4</p>	<ol style="list-style-type: none"> Concrete Wall Concrete Masonry Wall Steel stud wall - 1-layer 5/8" type X gypsum wallboard on the interior, installed on 3 5/8" (min.), 25-gauge steel studs, spaced a maximum of 24" on center with lateral bracing every 4 feet Fire retardant-treated wood (FRTW) stud wall - 1-layer 5/8" type X gypsum wallboard on the interior installed on minimum 2" x 4" (nominal dimension) FRTW studs spaced a maximum of 24" on center with lateral bracing as required by code
<p>FLOOR LINE FIRE STOPPING</p> <p>Use item 1 or 2</p>	<ol style="list-style-type: none"> Any approved mineral fiber-based safing insulation in each stud cavity at the floor line (safing thickness must match stud cavity depth) Solid FRTW fire blocking at floor line following building code requirements for Type III Construction <p>FRT firestop may only be used with FRT framing</p>
<p>CAVITY INSULATION</p>	<p>SealTite PRO Closed Cell - 1 1/2" (min.) up to full cavity thickness</p> <p>SealTite PRO One Zero - 1 1/2" (min.) up to full cavity thickness</p> <p>SealTite PRO HFO - 1 1/2" (min.) up to full cavity thickness</p>
<p>EXTERIOR SHEATHING</p>	<p>None</p>
<p>EXTERIOR INSULATION</p> <p>Use items 1 – 3 for all cladding types</p> <p>Items 4 – 8 limited to cladding types 1 – 6</p>	<ol style="list-style-type: none"> Hunter Panels Xci Foil (Class A) - 3 1/2" (max.) Hunter Panels Xci-286 - 3 1/2" (max.) CCW R2+ SHEATHE - 3 1/2" (max.) Hunter Panels Xci Foil (Class A) - 4" (max.) Hunter Panels Xci-286 - 4" (max.) CCW R2+ SHEATHE - 4" (max.) Hunter Panels Xci CG or Xci CG (Class A) - 4" (max.) CCW R2+ MATTE or R2+ MATTE (Class A) - 4" (max.)
<p>WEATHER RESISTANT BARRIER OVER EXTERIOR INSULATION</p> <p>Use any item 1 – 9</p> <p>For a complete list of approved WRB's contact CSFI Technical Service Department</p>	<ol style="list-style-type: none"> None Hunter Xci VP-SA WRB Carlisle Fire Resist 705 RS Fire Resist Barithane VP Fire Resist 705 VP (with 702 WB, CAV-GRIP®, or Low-VOC Travel-Tack Adhesives) Fire Resist 705 FR-A (with CCW 702, 702LV, 702 WB, CAV-GRIP, and Low-VOC Travel Tack Adhesives) Fire Resist Barritech VP

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<p>WEATHER RESISTANT BARRIER OVER EXTERIOR INSULATION CONTINUED</p>	<ol style="list-style-type: none"> 8. Fire Resist Barritech NP (or NP LT) 9. Henry Air-Bloc 21 S, AB 33MR, AB 31MR, AB 17MR, AB 16MR The exterior insulation may be used with or without CavClear® Masonry Mat over the insulation with a maximum 1" air gap between the CavClear and the cladding. When CavClear is used, this may only be used with Cladding 1 – 6 or with thin brick/thin stone adhered to stucco as long as total thickness is ¾" min.
<p>EXTERIOR CLADDING</p> <p>Use any item 1 – 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"> 1. Brick - 4" (nom.) clay or concrete brick or veneer with maximum 2" air gap behind the brick, brick ties/anchors 24" (max.) O.C. 2. Stucco - ¾" (min.) exterior cement plaster and lath 3. Limestone - 2" (min.) using any standard non-open joint installation technique such as shiplap 4. Natural stone (granite, limestone, marble, sandstone) - 2" (min.) using any standard non-open joint installation technique such as grouted/mortared stone 5. Artificial cast stone - 1½" (min.) complying with ICC-ES AC 51 using any standard non-open joint installation technique such as shiplap 6. Terracotta cladding - 1¼" (min.) solid or equivalent by weight using any standard non-open joint installation technique such as shiplap 7. Metal composite material (MCM) - any MCM that has successfully passed NFPA 285 8. Metal building panels - uninsulated sheet metal building panels including steel, copper, aluminum, or zinc (zinc not permitted for use with Hunter Panels Xci-CG or CCW R2+ MATTE) 9. Fiber-cement siding, porcelain, or ceramic tile - ¼" (min.) uninsulated and mechanically attached 10. Composite building panels - Stone, porcelain, ceramic/aluminum honeycomb composite building panels that have successfully passed NFPA 285 criteria 11. Autoclaved-aerated-concrete (AAC) panels - any AAC panels that have successfully passed NFPA 285 criteria 12. Terra cotta cladding - ½" (min.) rain-screen terracotta with ventilated shiplap 13. One coat stucco - ½" (min.) - any one coat stucco which meets AC11 acceptance criteria or is approved for use in Types 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 or cultured stone - ¾" (min.) in thin-set adhesive and metal lath 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 15. Glen Gery Thin Tech Elite Series Masonry Veneer or TABS II Panel System - ½" thick bricks using TABS Wall Adhesive or Brick It MCS & CI Panel Systems 16. Stone Veneer - 1¼" (min.) using any standard installation technique 17. FunderMax M.Look - ¼" (min.) using any standard installation technique



Premier+ NFPA 285

Note 1: The following adhesives may be used to attach the polyisocyanurate (polyiso) insulation

- 1) LM 800 XL or BarriBond or BarriBond XL: adhesive applied discontinuously at a rate of $\frac{3}{8}$ " thick by 3" diameter dabs, 16" O.C.
- 2) CAV-GRIP or Low-VOC Travel-Tack aerosol adhesive: applied per manufacturers' instructions

Note 2: The following may be used as a gap-filler between insulation panels:

- a. ICP HandiFoam Fireblock
- b. TVM Fireblock
- c. DuPont Great Stuff PRO Gaps & Cracks Insulating Foam

Note 3: These detailing materials may be used over the polyiso insulation and can be used alone or with any approved WRB for the assembly

- 1) Board joint treatments:
 - a. BarriBond or BarriBond XL: 2" x 40 mil ribbon
 - b. 4" DCH Reinforcing Fabric embedded in Fire-Resist VP/NP/NP LT or Fire-Resist Barrithane VP
 - c. 4" Foil-GRIP 1402*
 - d. 4" AlumaGRIP 701*
- 2) Termination mastic for flashing/membrane: 1" x 40 mil ribbon or tooled $\frac{3}{8}$ " bead of Sure-Seal® Lap Sealant, LM 800 XL, BarriBond, or BarriBond XL
- 3) Detail flashing: 3" on each side at openings, terminations, penetrations, transitions, and angle changes
 - a. Fire Resist 705 FR-A/XLT*
 - b. Sure-Seal PS Elastoform* or Sure-Seal PS Cover Strip*
 - c. LiquiFiber or DCH Reinforcing Fabric embedded in Barritech VP/NP/NP LT
 - d. 40-mil application of BarriBond, BarriBond XL, or Barrithane VP

*Prepare the surface as recommended by Carlisle using CCW-702, CCW-702 LV, CCW-702 WB, CCW-715, Low VOC Travel-Tack, CAV-GRIP, HP-250 Primer, or Low-VOC EPDM Primer per the instructions on Product Data Sheets

Note 4: In the NFPA 285 test, flashings for fenestration, including through-wall flashing (TWF), are not considered part of the WRB (Ref: 2015 IBC Sec. 1403.5 and 2018 IBC Sec. 1402.5). Therefore, suitable combustible or non-combustible flashings are permitted for wall assemblies as required in Building Code (Ref: 2015 IBC Sec. 1405.4 and 2018 IBC Sec. 1404.4).

Through Wall Flashing (TWF) is permitted for use in wall assemblies clad with masonry or stone at the base of wall, head of wall, relieving angle, window head, windowsill, and at other interruptions in the exterior cavity. TWF shall be applied at a maximum of 8" onto the back-up wall and terminate at daylight or onto a drip edge. The following TWF products may be used:

- 1) CCW-705 TWF/XLT*
- 2) Pre-Kleened EPDM TWF loose-laid or adhered with Sure-Seal 90-8-30A Bonding Adhesive or Sure-Seal Low-VOC Bonding Adhesive
- 3) Metal TWF by others

Note 5: BRT-801 tape may be used over Fire-Resist 705 RS at membrane splices, terminations, and penetrations. Fire-Resist 705 RS and the substrate may be treated with CCW-702, CCW-702 LV, CCW-702 WB, or Low-VOC Travel-Tack to promote adhesion of BRT-801.