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PRODUCT: HERCUWALL® AND HERCUWALL® HD, SERIES 8
INSULATED CONCRETE PANEL SYSTEM TYPE S,
SW, I, IW and A PANELS

REPORT HOLDER: Tremco CPG, Incorporated

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CSI DIVISION: 03 00 00 - Concrete
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CSI SECTION: 03 11 19 – Insulated Concrete Forming
07 21 00 – Thermal Insulation

APPLICABLE CODES: 2025, 2020 National Building Code of Canada (NBC)
2024 British Columbia Building Code (BCBC)
2023 National Building Code of Canada Alberta Edition (NBC(AE))
2024 Ontario Building Code (OBC)

EVALUATED: Thermal Insulation, Physical Performance
Structural Capacity
Connection Capacity
Fire-Resistance Ratings
Environmental Separation



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1.0 APPROVED FOR FOLLOWING:

APPROVED TYPES OF CONSTRUCTION:	Combustible Construction
APPROVED USE:	Stay-in-place concrete forms
APPROVED INSTALLATIONS:	Non-load bearing exterior and interior walls.

2.0 DESCRIPTION:

2.1 General:

HercuWall® and HercuWall® HD Series 8 Insulated Concrete Panel Systems are concrete formwork comprised of Type 2 expanded polystyrene (EPS) foam plastic thermal insulation panels with integrated vertical cavities (studs and posts) and horizontal cavities (bond and base beams) for placement of concrete. Vertical concrete core elements for HercuWall® are spaced at 305 mm (12 inches) on center. Bond beam (top) and base beam (bottom) horizontal spacing is based on wall heights outlined in this report. The HercuWall® system includes a factory installed ShearStrip® in each vertical cavity, with the ShearStrip® alternating from interior to exterior panel face for attachment. The ShearStrip® protrudes into the vertical cavity for final embedment into the concrete at time of concrete placement, bonding the concrete to the EPS form while providing additional steel reinforcement.

The ShearStrip® components include wide flanges to provide fastening locations on the interior and exterior HercuWall® and HercuWall® HD panel faces. HercuWall® and HercuWall® HD Series 8 panels are available in product models and sizes as outlined in Table 1 of this report. See Section 8.2 of this report for additional product details.

HercuWall® and HercuWall® HD Series 8 panels require installation at the jobsite with the minimum concrete specified in Section 2.2.8 of this report.

HercuWall® and HercuWall® HD Series 8 panels are available with single post and double post options, which are utilized where increased loads are anticipated due to point loads. Vertical posts are also used as jamb posts for panel openings. Section 8.2 of this report includes illustrations of typical jamb post configurations. HercuWall® and HercuWall® HD Series 8 headers and sills utilize a horizontally oriented single post profile integrated into the HercuWall® Series panel openings. See Figures in Section 8.2 of this report for typical header and sill configurations. HercuWall® single and double post options have two times the ShearStrip® components compared to standard vertical stud cavities (2 ShearStrip® in single post, 4 ShearStrip® in double post) to provide increased steel reinforcement at post locations. See Section 8.2 of this report for additional details.



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HercuWall® and HercuWall® HD Series 8 panels are available in the following products and sizes:

Table 1. HercuWall® and HercuWall® HD Series 8 Products and Accessories¹

HercuWall® and HercuWall® HD Series 8 Panels							Panel Type
Product Type	Thickness		Maximum Width		Maximum Height		
	mm	inches	mm	inches	mm	inches	
HercuWall®	203	8	1219	48	3658	144	Type S
HercuWall®	203	8	1219	48	3658	144	Type SW ²
HercuWall®	229	9	1219	48	3658	144	Type I ³
HercuWall®	229	9	1219	48	3658	144	Type IW ⁴
HercuWall®	203	8	1219	48	3658	144	Type A
HercuWall® HD	203	8	1219	48	4268	168	Type S
HercuWall® HD	203	8	1219	48	4268	168	Type SW ²
HercuWall® HD	229	9	1219	48	4268	168	Type I ³
HercuWall® HD	229	9	1219	48	4268	168	Type IW ⁴
HercuWall® HD	203	8	1219	48	4268	168	Type A

1. Sizes of HercuWall® and HercuWall® HD Series 8 panels outside of Table 1 are outside the scope of this report.
2. HercuWall® Type SW and Type IW panels incorporate a factory-applied UV-resistant layer on the exterior face of the HercuWall® panel.
3. HercuWall® Type I panels include an additional layer of 25 mm (1-inch) Type 2 EPS on the exterior surface of the HercuWall® panel to provide continuous exterior insulation.
4. HercuWall® Type IW panels include an additional layer of 25 mm (1-inch) Type 2 EPS on the exterior surface of the HercuWall® panel to provide continuous exterior insulation and a factory-applied UV-resistant layer on the exterior face of the HercuWall® panel.

HercuWall® and HercuWall® HD Series 8 panels comply for use in combustible construction, including use in fire-resistance rating applications. See Sections 4.4 and 8.3 and for details.

2.2 Product Components:

2.2.1 EPS Foam Plastic Panels:

HercuWall® and HercuWall® HD Series 8 panels are expanded polystyrene (EPS) foam plastic thermal insulation up to 203 mm (8-inches) for Type S, Type SW and Type A panels, and up to 229 mm (9-inches) thickness for Type I and IW panels. The thermoplastic EPS foam in HercuWall® and HercuWall® HD Series 8 panels is listed by an approved agency and complies with Type 2 specifications per CAN/ULC S701.1 for use as thermal insulation and has a flame spread rating of 500 or less when evaluated following CAN/ULC S102.2. The EPS foam plastic has a minimum self-ignition temperature of 343°C (650°F) as determined in accordance with ASTM D1929.

HercuWall® and HercuWall® HD Series 8 panels must be covered on the interior with a code-prescribed interior finish as part of the requirements outlined in Section 3.1.4.2 of the 2025 / 2020 National Building Code of Canada (NBC), or with an alternative thermal barrier that meets the requirements of Classification B2 when tested in conformance with CAN/ULC-S124, as required by Section 3.1.4.2 of the 2025 / 2020 NBC and as described in Section 4.2.2 of this report.

2.2.2 ShearStrip®:

HercuWall® ShearStrip® components are factory installed in the HercuWall® concrete cavities, alternating between cavity faces allowing protrusion of the ShearStrip® into the concrete during placement, providing reinforcing to the concrete structure.

HercuWall® ShearStrip® steel is minimum 0.56 mm (0.022 inches) thickness with 51 mm (2-inch) flanges and conforms to ASTM A653/A653M SS Grade 275 with Z275 (G90) galvanized coating. See Section 8.2 of this report for additional details.

HercuWall® HD ShearStrip® steel is minimum 0.84 mm (0.033 inches) thickness with 51 mm (2-inch) flanges and conforms to ASTM A653/A653M SS Grade 275 with Z275 (G90) galvanized coating. See Section 8.2 of this report for additional details.

2.2.3 Top and Bottom Tracks:

HercuWall® top and bottom track components are supplied to the jobsite with HercuWall® and HercuWall® HD Series 8 panels. Bottom tracks are used at the base for locating the bottom of the panels prior to placement of concrete. Top tracks are installed on the top of each panel (1 track on exterior side, 1 track on interior side). Top and bottom tracks are non-structural components and may be cut on the jobsite as required for panel installation.

HercuWall® top and bottom track steel is minimum 0.56 mm (0.022 inches) thickness and conforms to ASTM A653/A653M SS Grade 230 with Z275 galvanized coating. HercuWall® HD top and bottom tracks are available in 0.84 mm (0.033 inches) thickness thickness upon request and conforms to ASTM A653/A653M SS Grade 230 with Z275 (G90) galvanized coating.

2.2.4 Window and Door Casings:

HercuWall® window and door casing components are factory applied to HercuWall® and HercuWall® HD Series 8 panels, for creating openings for field installation of doors and windows. Casings are available in two material options.

- **Metal Casings** - HercuWall® window and door metal casings are steel of minimum 0.84 mm (0.033 inches). For HVHZ areas, window and door casings are available in 1.09 mm (0.043 inches) thickness upon request. All casing components conform to ASTM A653/A653M SS Grade 230 with Z180 (G60) galvanized coating. Metal casings should not be directly exposed to weather.
- **Composite Casings** - HercuWall® window and door composite casings are produced from extruded polyvinyl chloride (XPVC) of 200 mm (7.875 inches) width x 45 mm (1.77 inches) thickness profile dimensions.

2.2.5 Truss Saddle Bracket:

HercuWall® truss saddle brackets are supplied to the jobsite with HercuWall® and HercuWall® HD Series 8 panels for attachment of trusses to the top of HercuWall® and HercuWall® HD Series 8 panels. HercuWall® Truss Saddle Brackets are cold formed steel of nominal 0.89 mm (0.035 inches) thickness and conforms to ASTM A653/A653M SS Grade 230 with Z275 (G90) galvanized coating. See Section 8.2 for additional details.

2.2.6 Embed:

HercuWall® Embeds are supplied to the jobsite with HercuWall® and HercuWall® HD Series 8 panels for bottom of wall connections to wood floor systems in platform framing for multi-story construction.

HercuWall® Embeds are cold formed steel of nominal 0.89 mm (0.035 inches) thickness and conforms to ASTM A653/A653M SS Grade 230 with Z275 (G90) galvanized coating. See Section 8.2 for additional details.

2.2.7 Rebar Clips:

HercuWall® Rebar Clips are factory applied to ShearStrip® components. The Rebar Clips are connected by an integral snap-on feature, that allows positioning for placement of rebar before concrete placement.

2.2.8 Rebar (reinforcement):

Rebar is used in installations of HercuWall® and HercuWall® HD Series 8 panels and must comply with CSA G30.18, with a minimum yield strength of 400 Mpa (58 ksi) and a nominal bar diameter of 13M (-12.7 mm / ½ inch). A continuous 13M rebar must be job site applied in the bond beam around the entire perimeter of the HercuWall® and HercuWall® HD Series 8 (see illustrations in Section 8.2). All rebar laps, sizing and spacing should be designed in accordance with the applicable Code.

2.2.9 Concrete:

Concrete materials and proportioning for use with HercuWall® and HercuWall® HD Series 8 panels shall conform to the relevant requirements of the 2025 / 2020 NBC and CSA A23.1 and shall have a minimum compressive strength of 27.6 MPa (4,000 psi) at 28 days cure.

2.2.10 HercuWall® Seaming Tape:

HercuWall® and HercuWall® HD Series 8 SW and IW panels require installation of HercuWall® Seaming Tape to ensure continuity of the water-resistive barrier at exterior panel joints to prevent water ingress. HercuWall® Seaming Tape is UV stabilized for durability and weathering resistance after installation.

HercuWall® Seaming Tape is of 0.203 mm (0.008 inches) nominal thickness, and of 121 mm (4.75-inch) width for factory applications, and 50 mm (2-inch) width for field applications.

3.0 DESIGN:

Engineering Design shall be provided, where required, to demonstrate compliance with the applicable requirements of the NBC, BCBC, the NBC(AE) or the OBC, as adopted by the authority having jurisdiction (AHJ). The design shall address all applicable requirements of Part 4, including structural loads, connection details, and other structural requirements, including dead, live, snow, wind, seismic, and foundation conditions, as applicable. Where the wall assembly forms part of the building envelope or a fire-resistance-rated or fire separation assembly, the design shall also address the applicable requirements of Part 5 (Environmental Separation) and Part 3 (Fire Protection, Occupant Safety and Accessibility), including continuity and integration with adjacent building elements, where required. Where required by the applicable building code or the authority having jurisdiction, the design documents shall be prepared and sealed by a Professional Engineer (P.Eng) licensed in the relevant jurisdiction.

Loads to be resisted by HercuWall® and HercuWall® HD Series 8 panels, and HercuWall® single and double post assemblies, shall not exceed the allowable loads outlined in Section 8.1 of this report.

HercuWall® and HercuWall® HD Series 8 panels have been approved for use as non-load bearing cladding panels and interior partitions. Use in alternative applications, including load bearing and shear walls are outside the scope of this report.

Loads resisted by HercuWall® headers and sills shall not exceed the allowable transverse loads specified in Section 8.1 of this report. The allowable loads provided are based on transverse loading applied over the width and span of the header and sill members. Axial loading of the headers and sills is outside the scope of this evaluation and shall be addressed through project-specific Engineering Design where applicable.

End of wall conditions where intersecting wall angles are greater than 135 degrees, but less than 180 degrees require a post element at both sides of the intersection.

Window and door openings require a jamb post element adjacent to both vertical sides of the opening.

Allowable connections to HercuWall® panels are outlined in Section 8.1 for perpendicular and parallel members. Connections outside of this report are to be designed by a Design Professional registered in the appropriate jurisdiction and comply with the Engineering Design in accordance with the applicable NBC Part 4 requirements.

Allowable connection capacities at the bottom of the HercuWall® panels to the supporting structure are noted in Section 8.1. Connections outside of this report are to be designed by a Registered Design Professional and comply with the Engineering Design in accordance with the applicable NBC Part 4 requirements.

Loads in the tables may be applied to shorter panel spans or lengths/heights where supported by Engineering Design. Engineering Design is to consider load paths and anchorage of the HercuWall® Series 8 panel assembly, which are outside the scope of this report.

Extrapolation of allowable loads is outside the scope of this report.

4.0 INSTALLATIONS:

4.1 General:

Installation of HercuWall® and HercuWall® HD Series 8 panels must comply with the manufacturer's published installation instructions, this report, and the applicable code(s). Where conflicts exist, this report and the applicable building code govern. Connections not identified in this report including connection of building elements to the HercuWall® and HercuWall® HD Series 8 panel system, and connection of the HercuWall® and HercuWall® HD Series 8 panels to the underlying structure is outside the scope of this report and shall be designed by a Registered Design Professional. Inspection of concrete is to be part of the Field Review Requirements as outlined in Section 4.1.1 of this report. Installations evaluated for structural capacity are outlined in Sections 8.1 and shown in figures found in Section 8.2 of this report.

4.1.1 Field Review Requirements:

HercuWall® and HercuWall® HD Series 8 panel construction requires periodic field review for concrete construction as per CSA A23.1 / A23.2. Inspections are to include, but not limited to, verification of reinforcing steel size and spacing as well as concrete cylinder testing.

4.2 Interior:

4.2.1 General:

HercuWall® and HercuWall® HD Series 8 panels are to be separated from the interior space in accordance with Section 4.2.2 and 4.2.3 of this report, as appropriate. Connection of interior decorum, furniture and cabinetry are approved when installed in accordance with the manufacturer's installation instructions.

4.2.2 Protection of Foamed Plastics in Occupied Space:

HercuWall® and HercuWall® HD Series 8 panels exposed to occupancies of the building interior shall be covered by a prescribed interior finish as described in Subsection 3.1.4.2 the 2025 / 2020 NBC, or by alternative thermal barrier that meets the requirements of Classification B2 when tested in conformance with CAN/ULC-S124 compatible for use with the Type 2 EPS insulation at thicknesses of 229 mm (9-inches) or greater.

Where gypsum is used it shall conform to ASTM C1396/C1396M, ASTM C1177 or CSA A82.27, as applicable, and shall be mechanically connected to the HercuWall® ShearStrip® steel elements in accordance with the applicable Code. Taping and mudding of fastener heads and joints are optional where gypsum is used, except where HercuWall® and HercuWall® HD Series 8 panels are used in fire-resistance rated applications, where installation shall conform to Sections 4.4 and 8.3 of this report.

4.3 Exterior Walls:

4.3.1 Above Grade:

4.3.1.1 Sheathing:

Exterior walls requiring sheathing as a structural element shall have the sheathing type and installation conforming to the applicable code requirements and the design prepared by a Registered Design Professional. Where used in fire-resistance-rated construction, sheathing shall comply with Sections 4.4 and 8.3 of this report as appropriate.

4.3.1.2 Weather Protection

HercuWall® and HercuWall® HD Series 8 S, I, A, SW, and IW panels used as exterior wall assemblies shall be installed as part of a complete environmental separation system in accordance with the 2025 / 2020 NBC including requirements for water penetration resistance and vapour diffusion control.

Exterior weather protection shall be provided by a continuous water-resistive barrier (WRB), properly detailed flashings, and compatible exterior cladding systems forming a drained (rain screen) or barrier-type (face sealed) wall assembly, as required by project specific design and the applicable 2025 / 2020 NBC Part 5 and/or Part 9 performance requirements.

4.3.1.3 Vapor Barrier:

HercuWall® and HercuWall® HD Series 8 panels EPS component are an approved vapor retarder with vapor permeance of $\leq 60 \text{ ng}/(\text{Pa.s.m}^2)$ at thicknesses of 203 mm (8 inches) or greater, complying with Section 9.25.4.2 of the 2025 / 2020 NBC.



4.3.1.4 Air Barrier:

HercuWall® and HercuWall® HD Series 8 panels installed as an exterior wall assembly shall incorporate a continuous air barrier system in accordance with Section 5.4.1 of the 2025 / 2020 NBC.

4.3.2 Below Grade:

The use of HercuWall® and HercuWall® HD Series 8 panels for below grade has not been evaluated and is outside the scope of this report.

4.4 Fire-Resistance-Rated Construction:

4.4.1 1-Hour Non-Load-Bearing Assemblies:

HercuWall® Series 8, Type S, SW and A panels are approved for use in 1-hour non-load-bearing fire-resistance rated applications based on evaluation in accordance with CAN/ULC S101. Construction of the wall assembly is to include 1 layer of minimum 16 mm (5/8-inch) Type X gypsum board complying with ASTM C1396/C1396M, ASTM C1177 or CSA A82.27 on each HercuWall® face. The gypsum is to be anchored into the underlying ShearStrip® at 203 mm (8 inches) on center around the gypsum perimeter and 305 mm (12-inches) on center spacing in the field, with #6 32 mm (1-1/4-inch) length Type S drywall screws. Joints and screw heads are to be taped and mudded minimum Level 3 per ASTM C840.

The addition of cladding and a water-resistive barrier is not considered to reduce the 1-hour fire-resistance rating, where connection of the water resistive barrier and cladding penetrates the ShearStrip® components, and no load is exerted on the exterior gypsum sheathing element

Penetrations through the fire-resistance-rated wall assembly, including service penetrations, membrane penetrations, associated firestopping, and fire-protection closures are outside of the scope of this report and Engineering Design and approval by the AHJ to satisfy the requirements of Section 3.1.9 of the 2025 / 2020 NBC.

See Section 8.3.1 of this report for installation requirements for use in 1-hour non-load-bearing fire-resistance-rated applications.

4.4.2 2-Hour Non-Load-Bearing Assemblies:

HercuWall® Series 8, Type S, SW and A panels are approved for use in 2-hour non-load-bearing fire-resistance rated applications based on evaluation in accordance with CAN/ULC S101. Construction of the wall assembly is to include 2 layers of minimum 16 mm (5/8-inch) Type X gypsum board complying with ASTM C1396/C1396M, ASTM C1177 or CSA A82.27 on each HercuWall® face. The first gypsum layer is to be anchored into the underlying ShearStrip® at 203 mm (8-inches) on center around the gypsum perimeter and 610 mm (24 inches) on center spacing in the field, with #6 32 mm (1.25-inch) length Type S drywall screws. The second gypsum layer is to be anchored into the underlying ShearStrip® at 203 mm (8 inches) on center around the gypsum perimeter and 305 mm (12 inches) on center spacing in the field, with #6 51 mm (2-inch) length Type S drywall screws. Joints between gypsum layers are required to have a minimum offset of 610 mm (24 inches). Joints and screw heads are to be taped and mudded with minimum Level 3 finish per ASTM C840 on the exposed layers only

The addition of cladding and a water-resistive barrier is not considered to reduce the 2-hour fire-resistance rating, where connection of the water resistive barrier and cladding penetrates the ShearStrip® components, and no load is exerted on the exterior gypsum sheathing element.

Penetrations through the fire-resistance-rated wall assembly, including service penetrations, membrane penetrations, associated firestopping, and fire-protection closures are outside of the scope of this report



and require Engineering Design and approval by the AHJ to satisfy the requirements of Section 3.1.9 of the 2025 / 2020 NBC.

See Section 8.3.2 of this report for details of installation for use in 2-hour non-load bearing fire-resistance-rated applications.

4.5 Non-combustible Construction

HercuWall® Series 8, Type S, SW and A panels use in exterior wall assemblies in buildings required to be of non-combustible construction is outside the scope of this report. Use in these applications requires Engineering Design and approval by the AHJ in accordance with Section 3.1.5 of the 2025 / 2020 NBC.

5.0 LIMITATIONS:

- Projects using HercuWall® and HercuWall® HD Series 8 panel systems require Engineering Design prepared by a Registered Design Professional and submitted to the Authority Having Jurisdiction, considering anticipated loading, the complete load path from the roof to the foundation, connection details and calculations in accordance with the applicable building code.
- HercuWall® and HercuWall® HD Series 8 panel systems resistance to axial loading, racking shear and seismic forces are outside the scope of this report and are permitted to be used as non-load-bearing exterior cladding panels and interior partitions only.
- Installation of the HercuWall® and HercuWall® HD Series 8 panel system is to match this report, the Engineering Design, Installation Guide and site specifications.
- HercuWall® and HercuWall® HD Series 8 panels are required to be separated from interior space by an approved thermal barrier when installed in accordance with Section 4.2.2 of this report and the applicable code. Where used in fire-resistant rated construction, installation is to comply with Sections 4.4 and 8.2 or 4.5 and 8.3 respectively.
- HercuWall® and HercuWall® HD Series 8 when used in fire-resistance-rated construction are to be installed in accordance with Section 4.4 and Section 8.2 of this report.
- HercuWall® and HercuWall® HD Series 8 panels and accessories are manufactured in Coppell, TX with inspections by QAI Laboratories

6.0 SUPPORTING INFORMATION:

The following data has been evaluated for HercuWall® and HercuWall® HD Series 8 panels:

- Data outlining compliance of Type 2 EPS foam for use as thermal insulation per CAN/ULC S701.1.
- Data outlining ignition temperature of EPS following method ASTM D1929.
- Data outlining structural testing conducted following method ASTM E72.
- Data outlining wind load testing.
- Data outlining details for use in non-load-bearing fire-resistance rated construction per CAN/ULC S101.

7.0 MARKING:

HercuWall® and HercuWall® HD Series 8 panels are labeled with the product and model name, manufacturer's name, location of manufacture, and the QAI CERcan-1081. Examples of finished product labels can be seen in Figure 1 below.

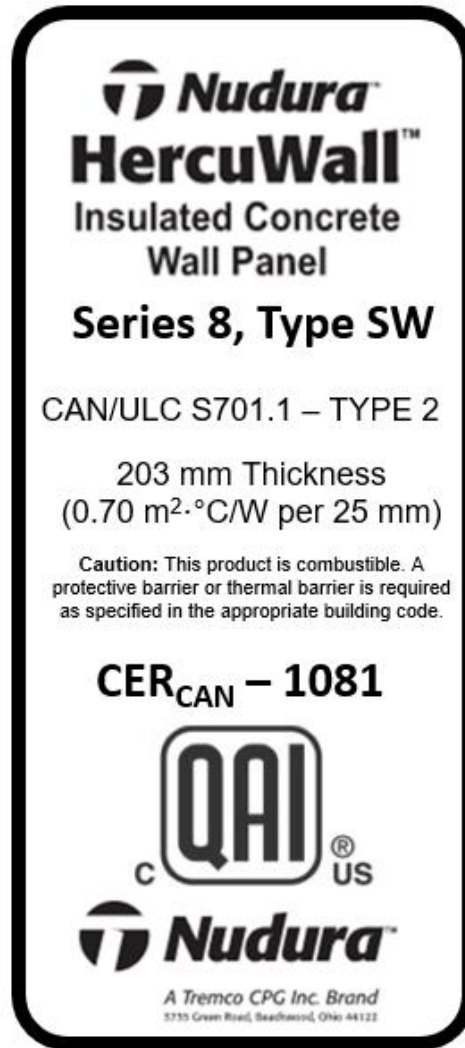


Figure 1 – Representative Example of HercuWall® Panels Product Label



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8.0 RESULTS/RATINGS:

8.1 HercuWall® and HercuWall® HD Series 8 Panels Maximum Load Capacities:

Table 2. HercuWall® Series 8 Header and Sill Maximum Transverse Loads

HercuWall® - Series 8 Header and Sill Maximum Transverse Loads ^{1,2,3} Panel Types S, SW, I, IW	
LENGTH	DESIGN RESISTANCE - ϕR_n
Up to 2590 (102 inches)	1310 N/m (90 plf)
2740 (108 inches)	940 N/m (64 plf)
2900 (114 inches)	860 N/m (59 plf)
3050 (120 inches)	830 N/m (57 plf)
3200 (126 inches)	830 N/m (57 plf)
3350 (132 inches)	830 N/m (57 plf)
3510 (138 inches)	830 N/m (57 plf)
Maximum 3660 (144 inches)	720 N/m (50 plf)

1. Design resistance is based off maximum header and sill capacity for loading conditions shown with a factor of safety of 3 applied, this is considered to be a conservative estimation of ϕR_n .
2. Engineering Design is to consider tributary width of the header and sill for determination of transverse load.
3. Header and sill are required to be reinforced with interior and exterior oriented ShearStrip® steel elements.

Table 3. HercuWall® Series 8 Maximum Pressure Rating

HercuWall® - Series 8 Maximum Pressure Rating Panel Types S, SW, I, IW – Stud Spacing 305 mm (12-inches) ^{1,2,3,4}	
PANEL HEIGHT	DESIGN PRESSURE - ϕR_n
2740 mm (108 inches)	4.1 kPa (86 psf)
2900 mm (114 inches)	3.5 kPa (72.5 psf)
3050 mm (120 inches)	3.0 kPa (63 psf)
3200 mm (126 inches)	2.8 kPa (59 psf)
3350 mm (132 inches)	2.6 kPa (54 psf)

1. Design pressures are determined based on evaluation to established protocols for use of exterior panels in impact and cyclic loading conditions (high velocity hurricane zones) including an applied factor of safety.
2. Maximum pressure rating is determined with bond and base beam supports. Design of connection details for anchorage of panel to substrate is outside the scope of this report and is to follow the Engineering Design.
3. Maximum pressure rating is determined for panels only and does not consider the contribution from sheathing materials.
4. Connection details including the connection of wall panels to the underlying structure is outside the scope of this report except where noted in Section 8.1 of this report and are to be in accordance with the Engineering Design and project specifications.

Table 4. HercuWall® HD Series 8 Header and Sill Allowable Transverse Loads

HercuWall® - Series 8 Header and Sill Maximum Transverse Loads ^{1,2,3} Panel Types S, SW, I, IW	
LENGTH	DESIGN RESISTANCE - ϕR_n
Up to 2740 mm (108 inches)	2070 N/m (142 plf)
2900 mm (114 inches)	1730 N/m (119 plf)
3050 mm (120 inches)	1510 N/m (104 plf)
3200 mm (126 inches)	1320 N/m (91 plf)
3350 mm (132 inches)	1180 N/m (81 plf)
3510 mm (138 inches)	1050 N/m (72 plf)
3660 mm (144 inches)	930 N/m (64 plf)
3810 mm (150 inches)	840 N/m (58 plf)
3960 mm (156 inches)	750 N/m (52 plf)
4110 mm (162 inches)	680 N/m (47 plf)
Maximum 4270 mm (168 inches)	610 N/m (42 plf)

1. Design resistance is based off maximum header and sill capacity for loading conditions shown with a factor of safety of 3 applied, this is considered to be a conservative estimation of ϕR_n .
2. Engineering Design is to consider tributary width of the header and sill for determination of transverse load.
3. Header and sill are required reinforced with interior and exterior oriented ShearStrip® steel elements.

Table 5. HercuWall® HD Series 8 Allowable Design Pressures

HercuWall® HD - Series 8 Wind Resistance Design Pressure Panel Types S, SW, I, IW – Stud Spacing 305 mm (12-inches) ^{1,2,3,4}	
PANEL HEIGHT	DESIGN PRESSURE - ϕR_n
2740 mm (108 inches)	10.2 kPa (215 psf)
2900 mm (114 inches)	9.1 kPa (192 psf)
3050 mm (120 inches)	8.4 kPa (176 psf)
3200 mm (126 inches)	7.7 kPa (161 psf)
3350 mm (132 inches)	7.1 kPa (150 psf)
3510 mm (138 inches)	6.8 kPa (143 psf)
3660 mm (144 inches)	6.6 kPa (139 psf)
3810 mm (150 inches)	6.4 kPa (135 psf)
3960 mm (156 inches)	6.3 kPa (132 psf)
4110 mm (162 inches)	6.1 kPa (128 psf)
4270 mm (168 inches)	6.0 kPa (125 psf)

1. Design pressures are determined based on evaluation to established protocols for use of exterior panels in impact and cyclic loading conditions (high velocity hurricane zones) including an applied factor of safety.
2. Maximum pressure rating is determined with bond and base beam supports. Design of connection details for anchorage of panel to substrate is outside the scope of this report and is to follow the Engineering Design.
3. Maximum pressure rating is determined for panels only and does not consider the contribution from sheathing materials.
4. Connection details including the connection of wall panels to the underlying structure is outside the scope of this report except where noted in Section 8.1 of this report and are to be in accordance with the Engineering Design and project specifications.

Table 6. HercuWall® and HercuWall® HD Series 8 – Maximum Connection Capacities at Bottom of Wall

HercuWall® and HercuWall® HD Bottom of Wall Maximum Connection Loads – Design Resistance - ϕR_n ^{1,2,4}			
Connection Methods and Hardware	Load Directions ^{3,7}		Reference Figure No.
	F1	F2	
13 mm (13M) Rebar Dowel Min 75 mm (3") Embed	5015 N (127 lbs)	1440 N (323lbs)	2A
13 mm Ø ATR w/Nuts and Washer Min 75 mm (3") Embed	5400 N (1214 lbs)	1290 N (290 lbs)	2B
13 mm Ø J-Bolt w/Nut @ 75 mm (3") Embed ⁶	5120 (2400) ⁵ N (1150[540] ⁵) lbs)	1290 N (290 lbs)	2C

- Maximum loads are based on a safety factor of 3.0 applied to the ultimate load determined from testing. This is considered to be a conservative estimation of ϕR_n .
- Loads shown are governed by concrete failure, unless noted otherwise.
- For combined loading, the connector must satisfy the unity equation: Demand/Capacity Ratio (one direction) + Demand/Capacity Ratio (other direction) ≤ 1.0 .
- Connection to other materials (wood, steel, etc.) shall be evaluated separately.
- Value for end of beam condition (minimum 152 mm [6 inches]).
- See Figure 3 for direction of application of load.

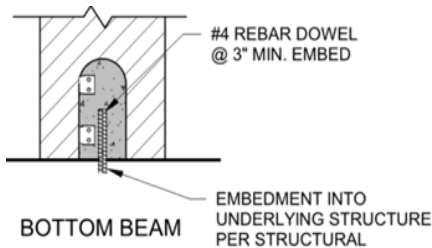


Figure 2A – Rebar Dowel

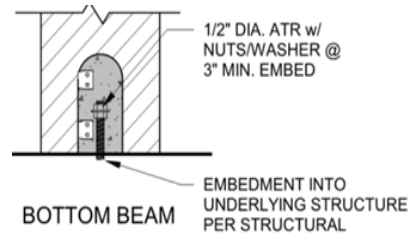


Figure 2B – All Thread Rod

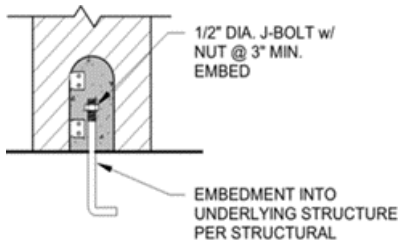


Figure 2C – J Bolt

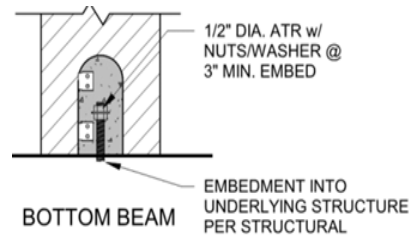


Figure 2D – 25 mm(1/2") Diameter Nut Washer with 75 mm (3") Embed

Figure 2. HercuWall® and HercuWall® HD Series 8 Bottom of Beam Connection Details



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Table 7. HercuWall® and HercuWall® HD Series 8 - Maximum Connection Capacities at Member Perpendicular to Wall

Truss to HercuWall® and HercuWall® HD Connection Shear Capacity- Design Resistance - ϕR_n - Members Perpendicular to Wall ^{1,2}			
Connection	Maximum Connection Capacities		
	F1	F2(+)	F2(-)
HercuWall® Saddle Bracket with (8)10D X 38 mm (1-1/2") nails at Bottom Chord	1040 N (230 lbs)	1250N (278 lbs)	1930 N (429 lbs)
HercuWall® Embed with (4) #9 X 64 mm (2-1/2") Wood Screws at Top Chord	2700 N (599 lbs)	2260 N (503 lbs)	2530 N (562 lbs)

1. Maximum loads are based on ultimate tested HercuWall® Connection capacity for loading conditions shown with a factor of safety of 3 applied. This is considered to be a conservative estimation of ϕR_n .

2. See Figure 3 for Connection Loading Diagram.

Table 8. HercuWall® and HercuWall® HD Series 8 - Top of Wall Connection Capacities at Member Parallel to Wall

HercuWall® and HercuWall® HD Top of Wall Connections - Design Resistance - ϕR_n – Members Parallel to the Wall ^{5,6}			
Connection		Maximum Connection Capacities	
		F1	F2
13 mm (1/2") Dia. X 152 mm (6") ATR with Nuts and Washers at 75 mm (3") Min. Embed	Bottom Chord Connection	5460 N (1214 lbs)	1300 N (289 lbs)
13 mm (1/2") Dia. X 178 mm (7") ATR with Epoxy at 102 mm (4") Min. Embed ^{1,4}		5800 N (1288 lbs)	1770 N (394 lbs)
5/8" (16 mm) Dia. X 229 mm (9") ATR with PL3/16 x 2 x 2 at 165 mm (6.5") Min. Embed ²		9650 N (2144 lbs)	1440 N (320 lbs)
13 mm (1/2") Dia. X 127 mm (5") Concrete Bolt With 89 mm (3-1/2") Min. Embed ^{3,4}		6850 N (1214 lbs)	1690 N (375 lbs)
13 mm (1/2") Dia. X 152 mm (6") J-Bolt at 75 mm (4") Min. Embed		4590 N (1022 lbs)	1550 N (344 lbs)
HercuWall® Embed with (4) #9 X 64 mm (2-1/2") Wood Screws	Top Chord Connection	2470 N (1020 lbs)	2390 N (532 lbs)

1. Maximum loads are based on ultimate tested HercuWall® connection capacity for loading conditions shown with a factor of safety of 3 applied. This is considered to be a conservative estimation of ϕR_n .

2. 4.8 mm (3/16") x 51 mm (2") x 51 mm (2") bearing plate minimum steel specification, CSA G40.21 260W.

3. Screw anchor manufactured from heat-treated steel complying with SAE J403 Grade 10B21.

4. 13 mm (1/2") $\varnothing$ x 178 mm (7") J-Bolt at 102 mm (4") min. embedment allowed as alternate anchor.

5. See Figure 3 for Load Diagram for HercuWall Embed connection.

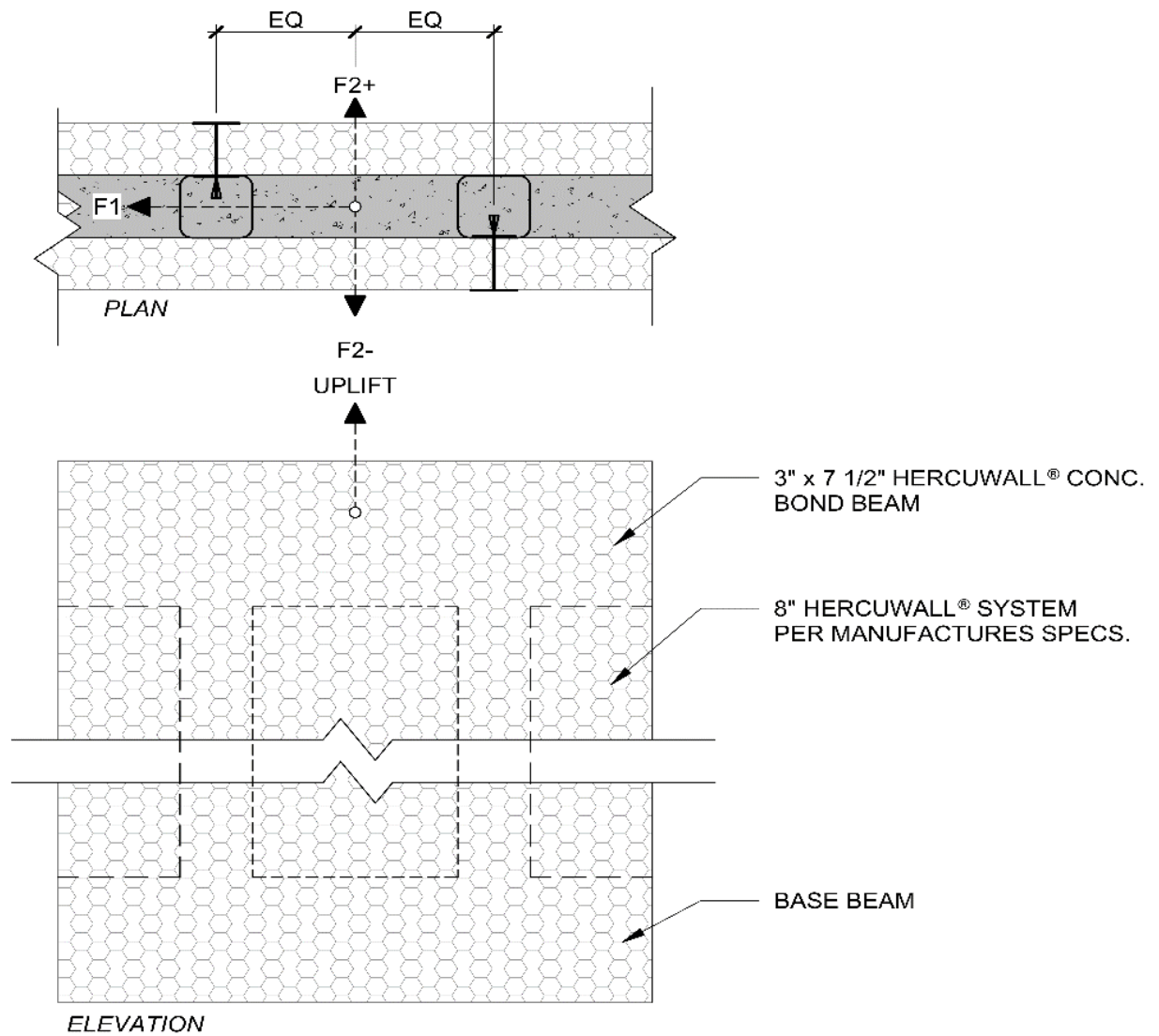


Figure 3. Load Diagram Truss Saddle Bracket and Embedded Connections

8.2 HercuWall® and HercuWall® HD Series 8 Panel and Installation Details:

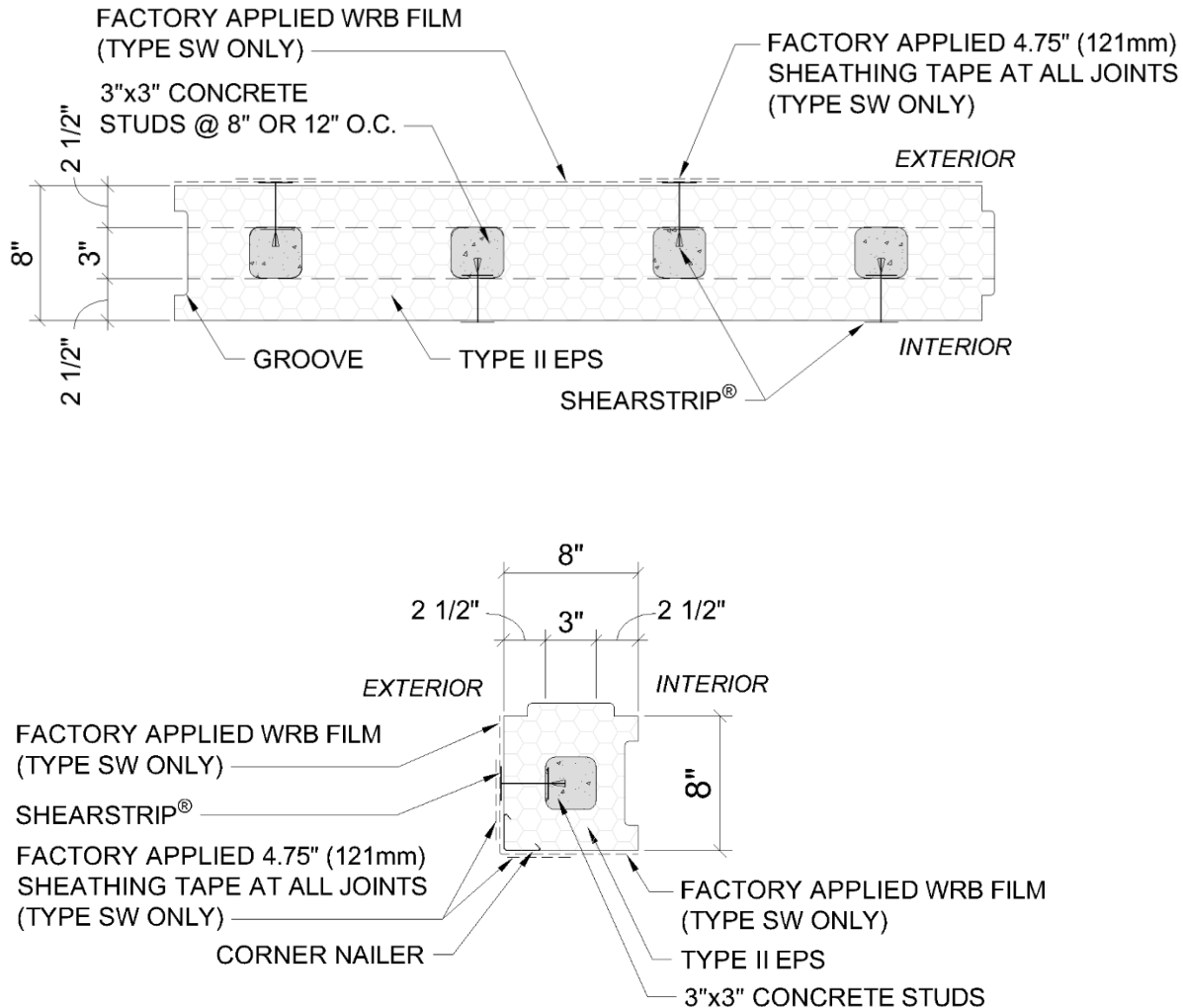


Figure 4. HercuWall® and HercuWall® HD Series 8 Type S and SW Panel and Corner Details

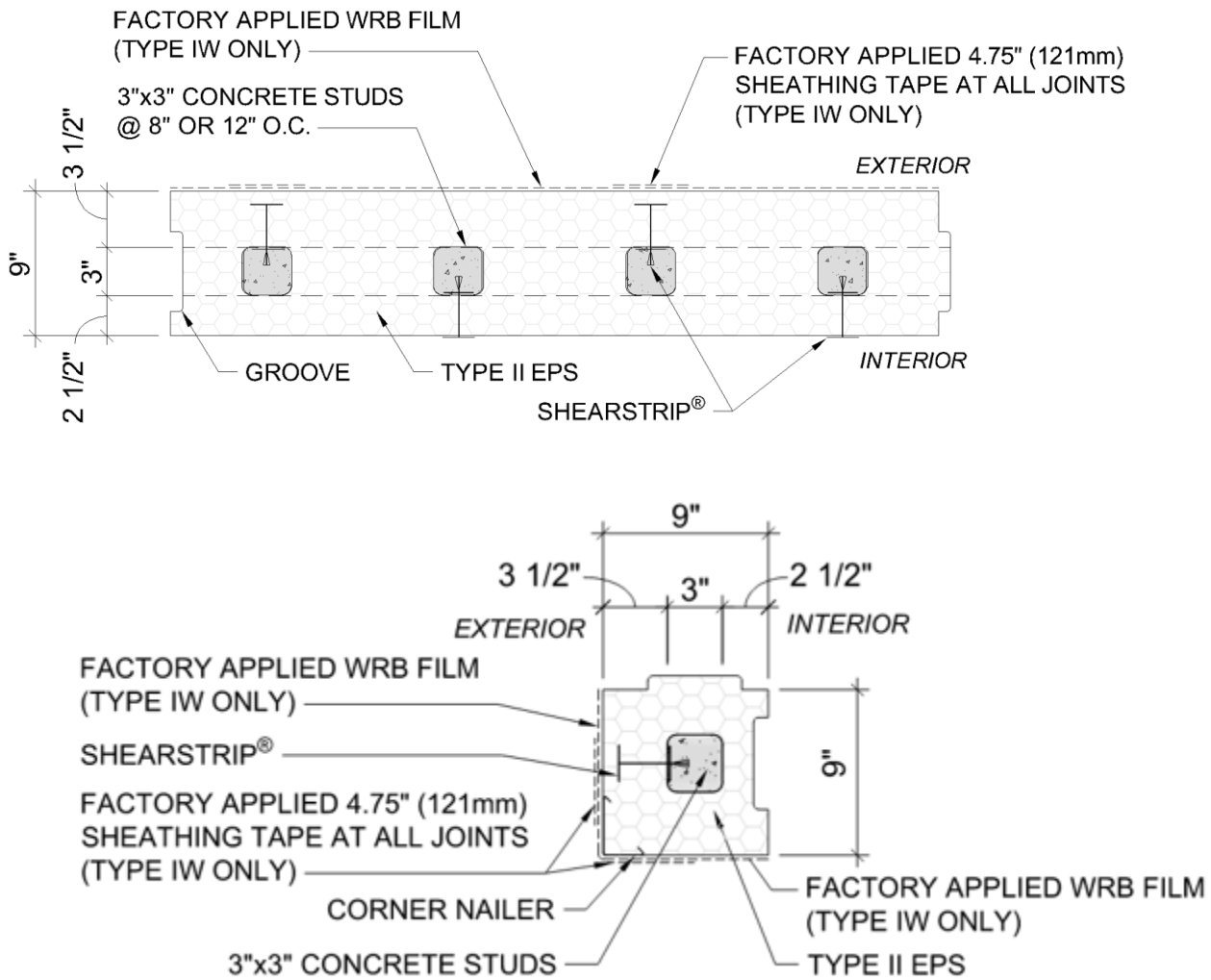


Figure 5. HercuWall® and HercuWall® HD Series 8 Type I and IW Panel and Corner Details

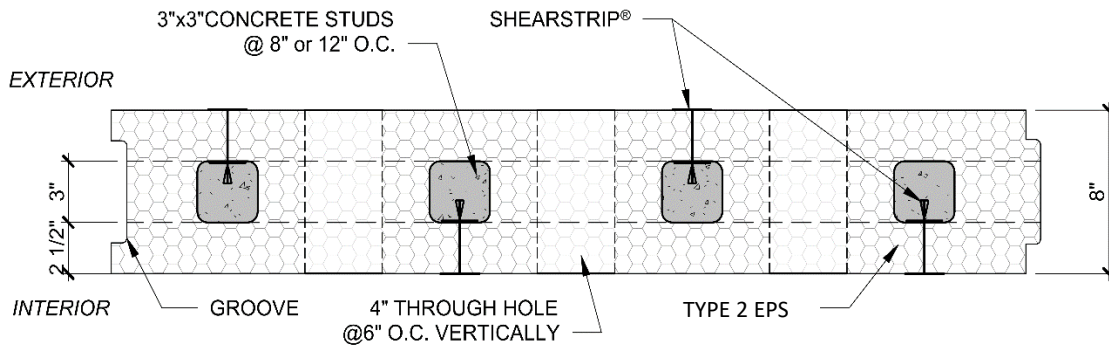


Figure 6. HercuWall® and HercuWall® HD Series 8 Type A Panel Details

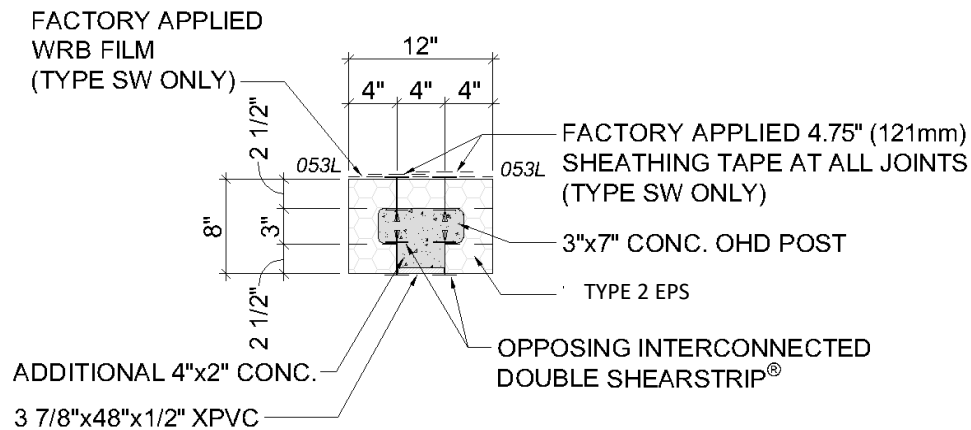
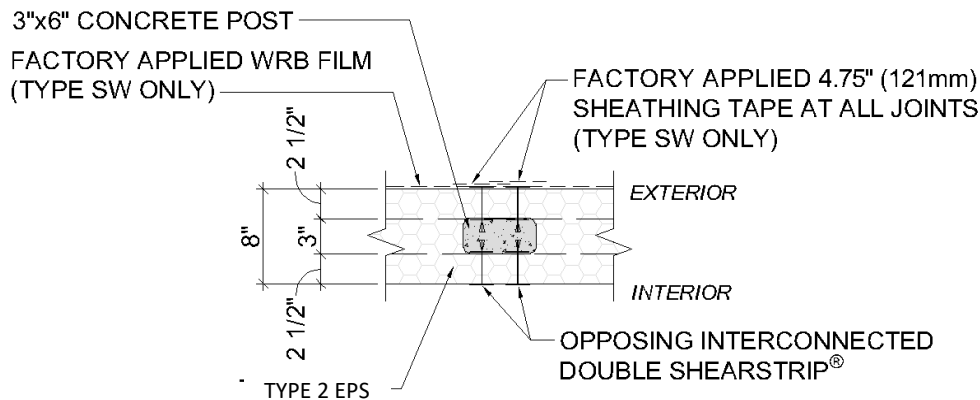
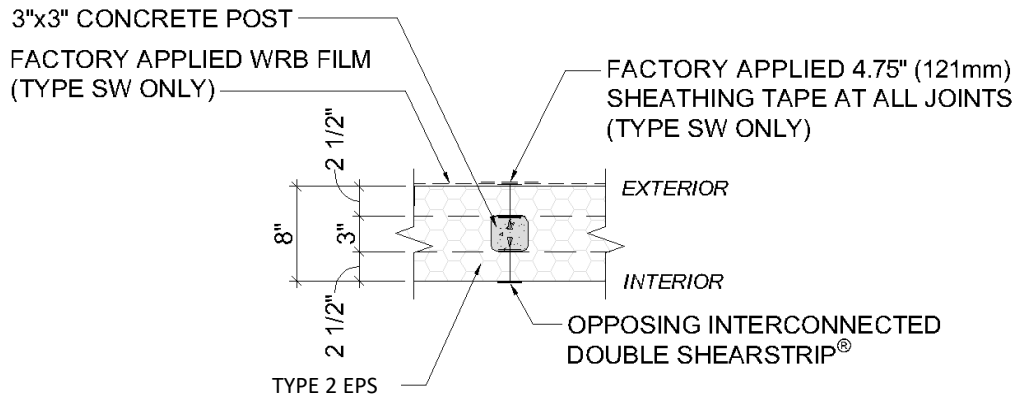


Figure 7. HercuWall® and HercuWall® HD Series 8 Type S, SW, and A Post Details

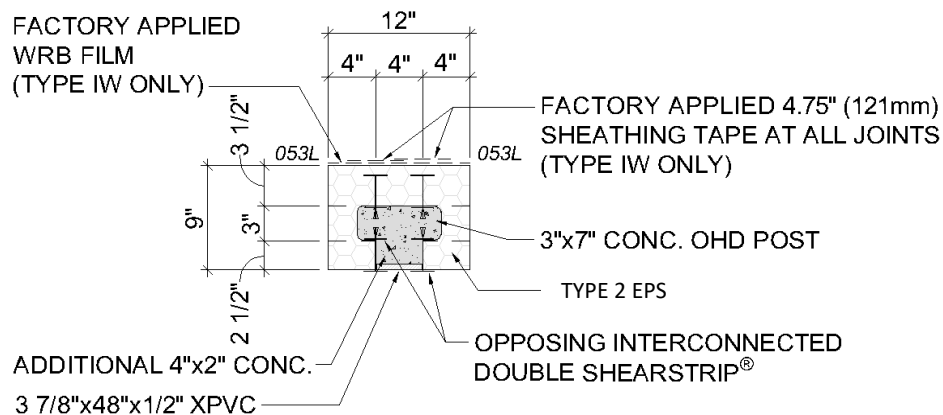
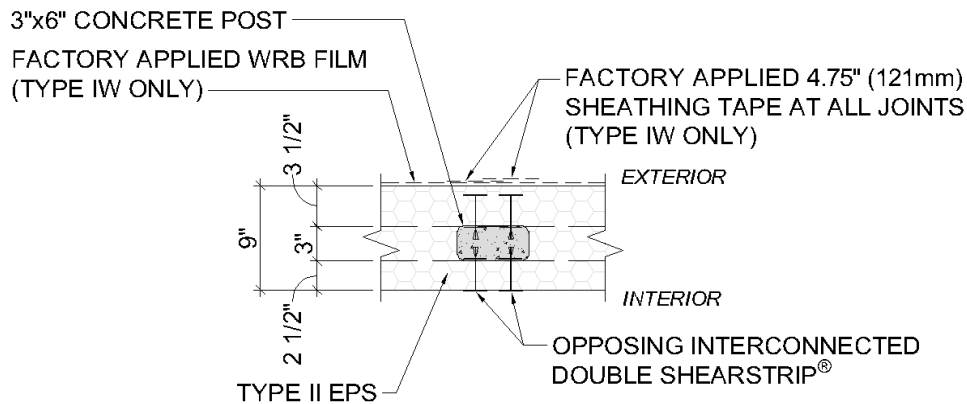
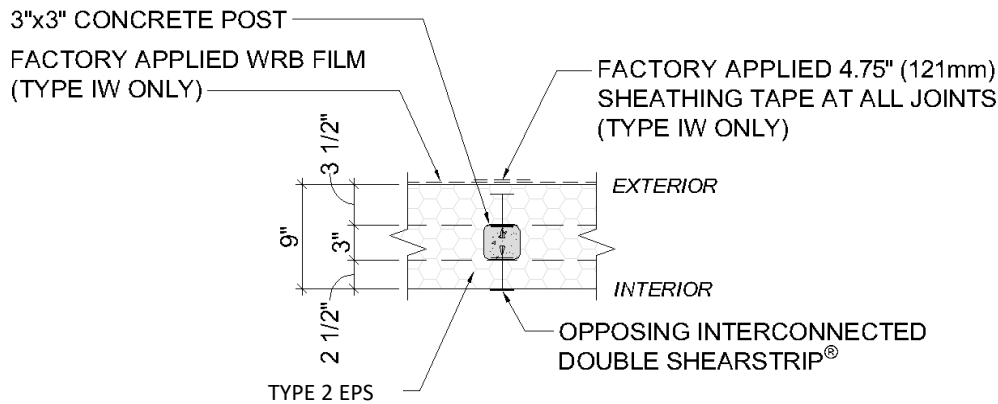


Figure 8. HercuWall® and HercuWall® HD Series 8 Type I and IW Post Details

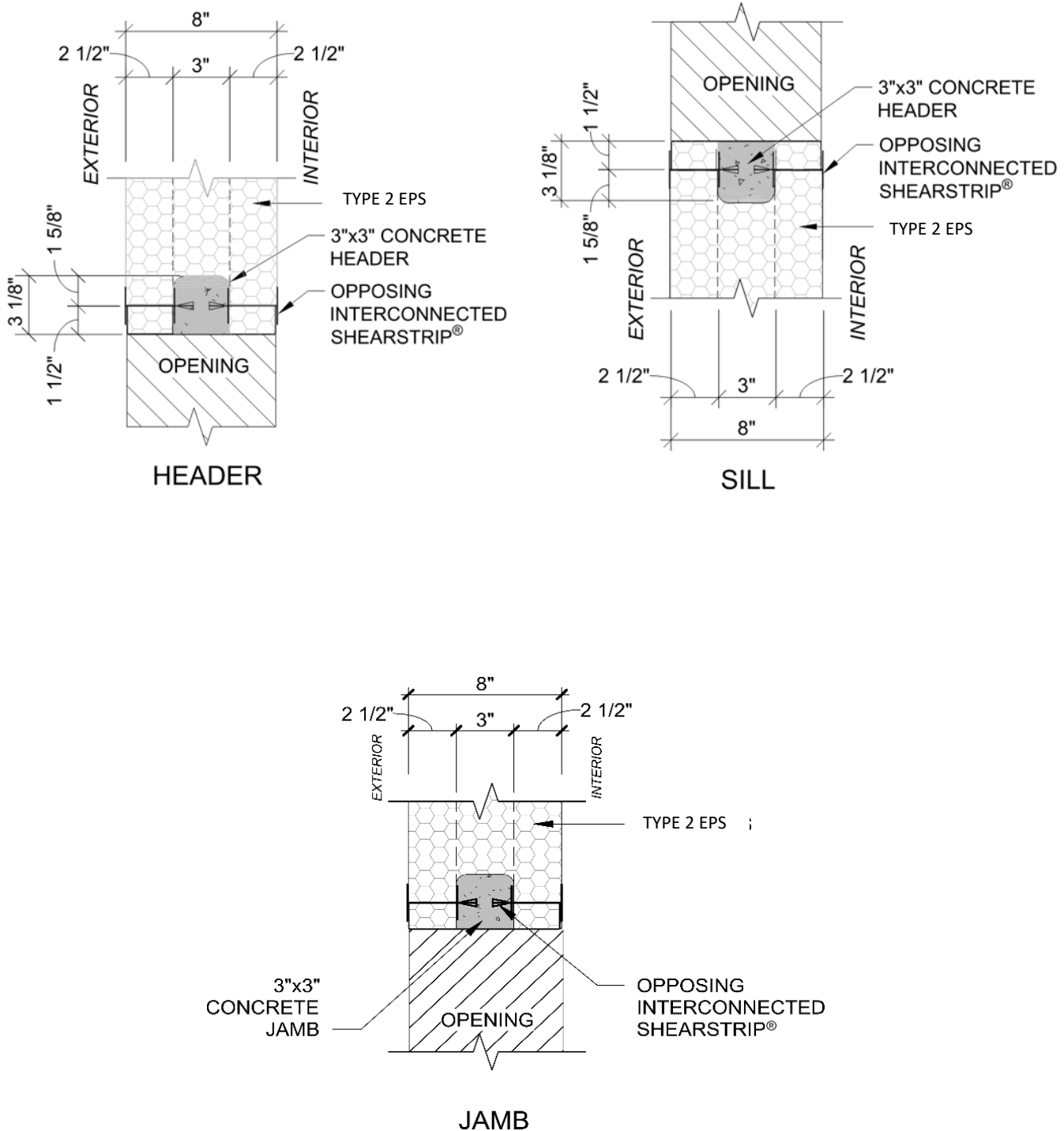


Figure 9 – HercuWall® and HercuWall® HD Series 8 Header, Sill and Jamb Sections – Metal Casing

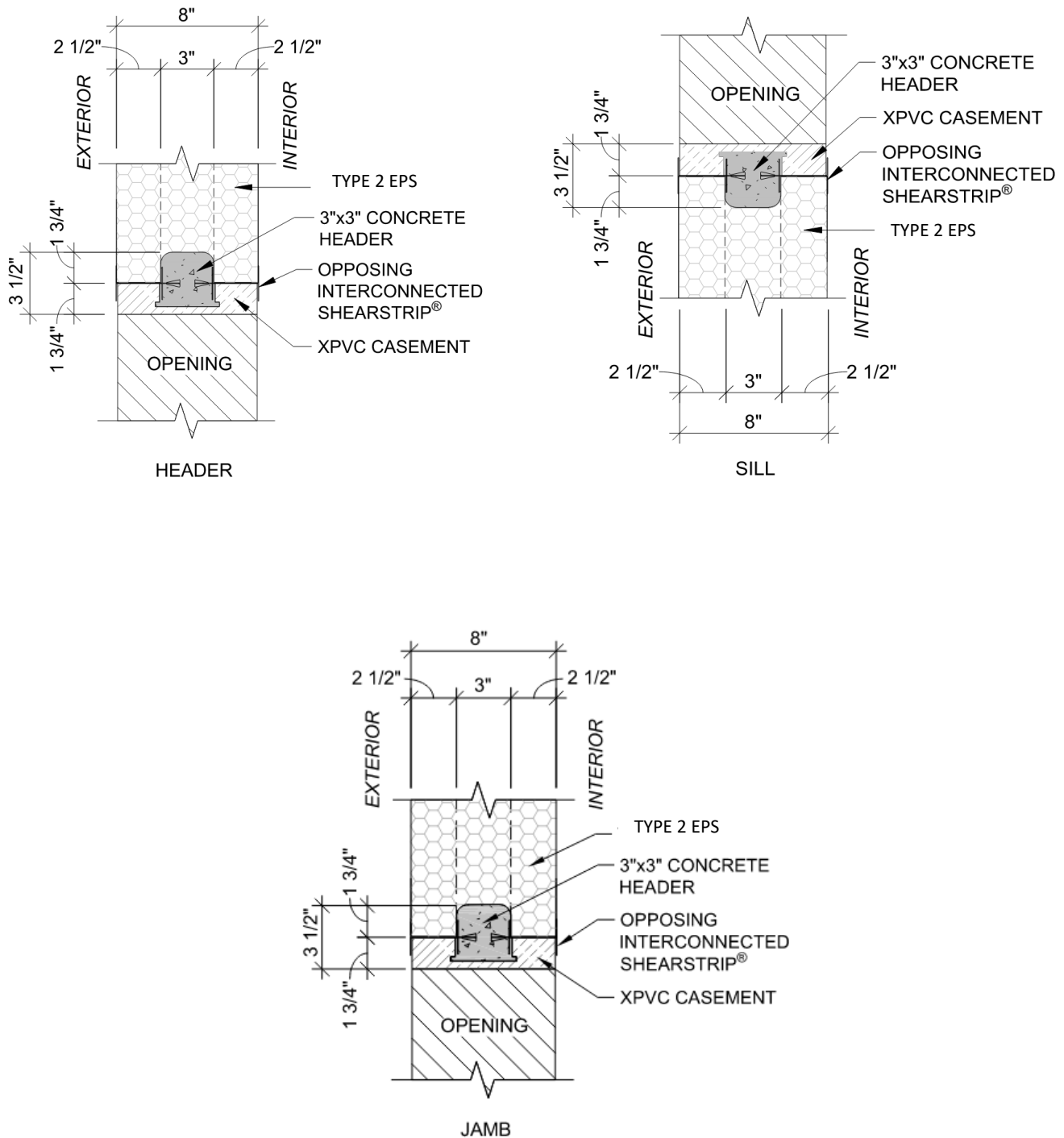


Figure 10 – HercuWall® and HercuWall® HD Series 8 Header, Sill and Jamb Sections – Composite Casing

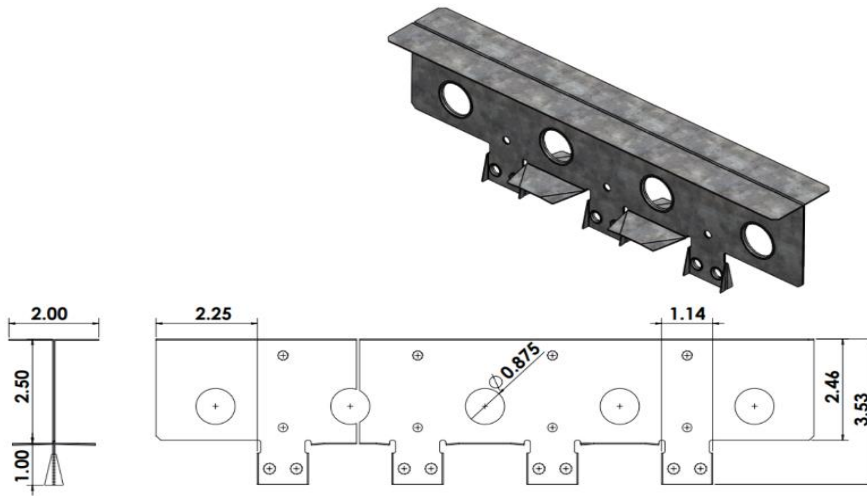


Figure 11 - HercuWall® and HercuWall® HD ShearStrip

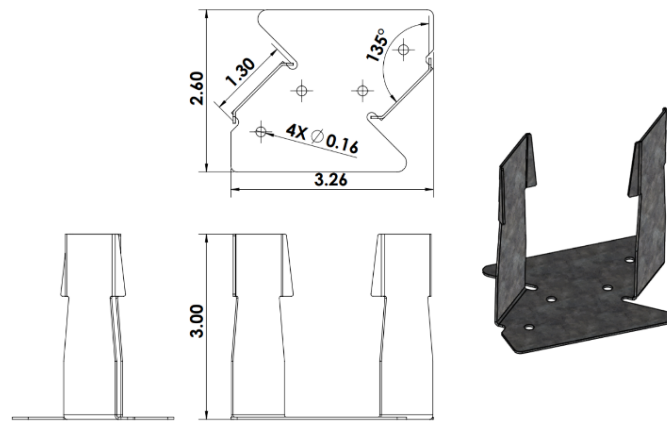


Figure 12 - HercuWall® and HercuWall® HD Embed

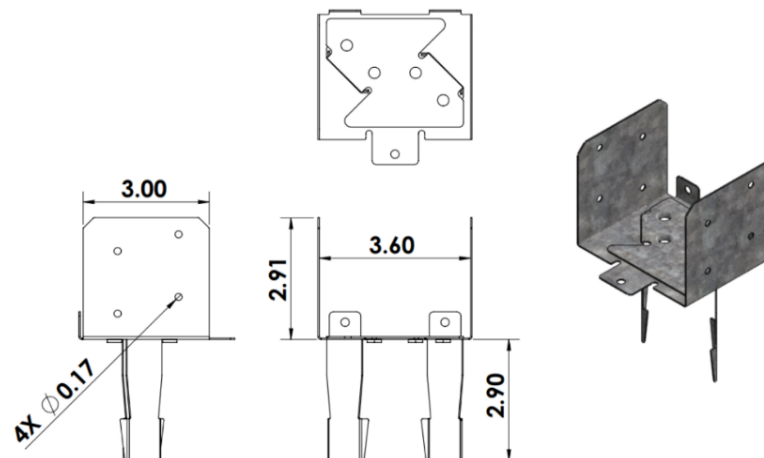


Figure 13 - HercuWall® and HercuWall® HD Truss Saddle Bracket

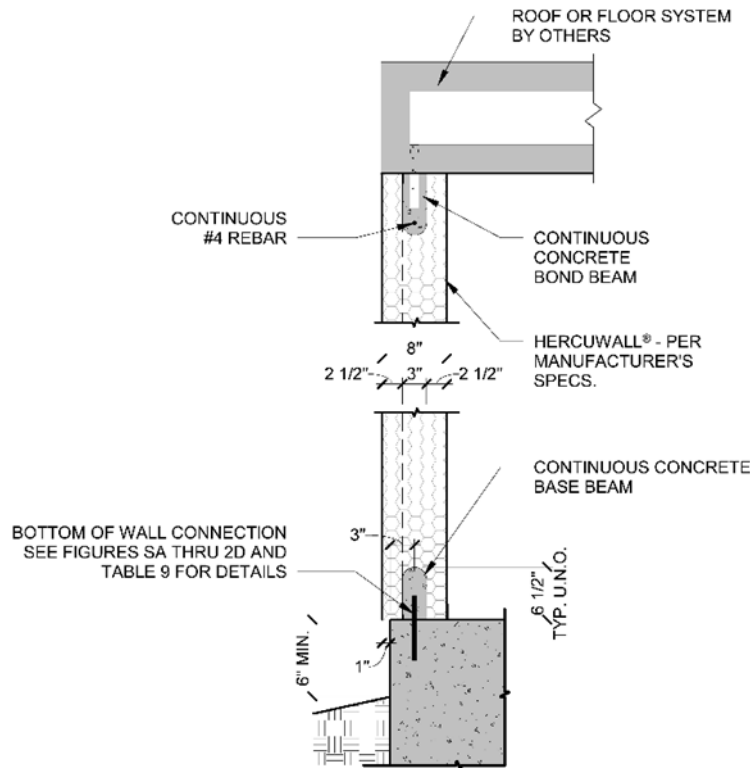


Figure 14 – Typical Wall Section

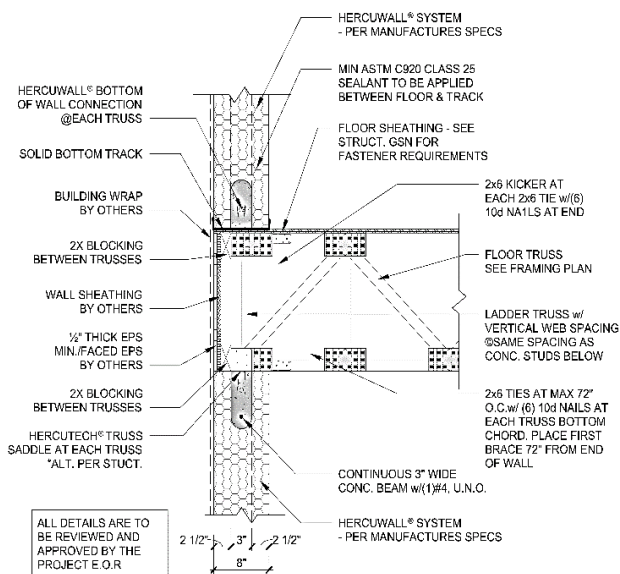


Figure 15 – Typical Truss Perpendicular to Wall (Section)

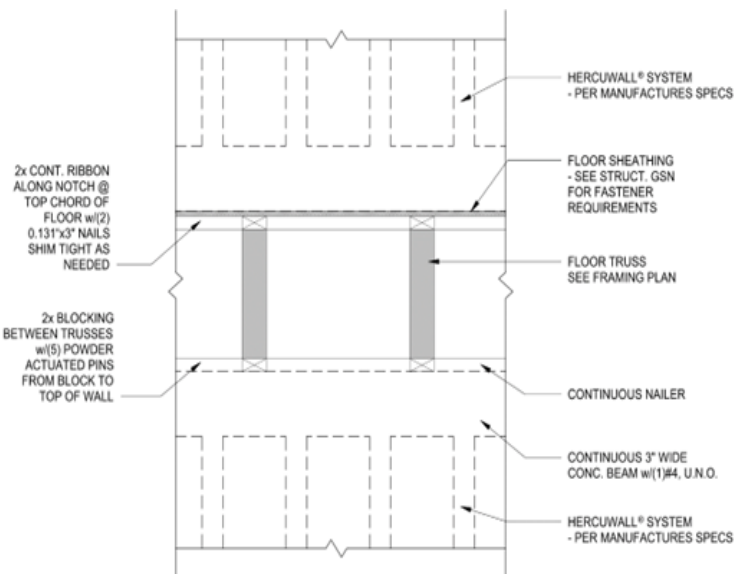


Figure 16 – Typical Truss Perpendicular to Wall (Elevation)

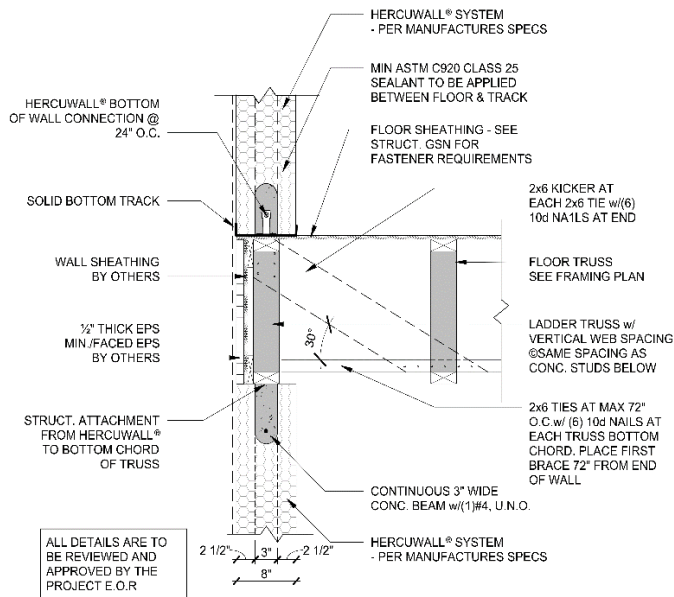


Figure 17 – Typical Truss Parallel to Wall (Section)

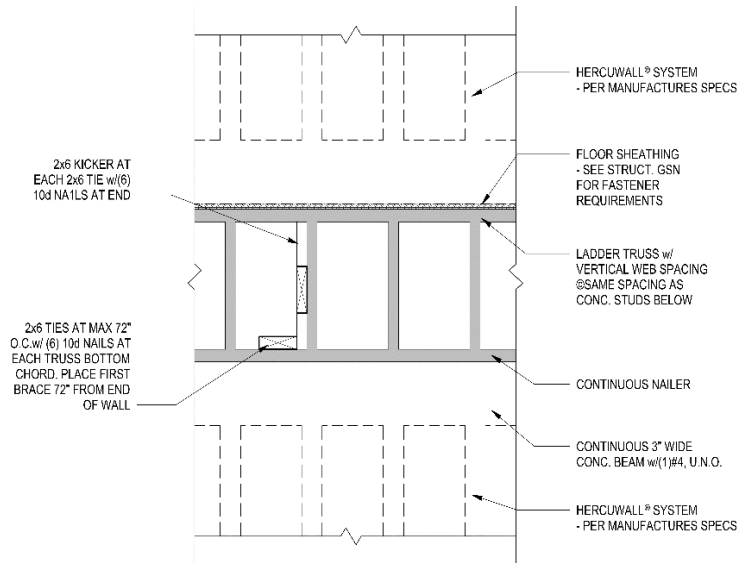


Figure 18 – Typical Truss Parallel to Wall (Elevation)

8.3 Fire-Resistance-Rated Assembly Details:

8.3.1 HercuWall® and HercuWall® HD Series 8 1-hour Non-Load Bearing Fire-Resistance-Rated Assemblies.

8.3.1.1 HercuWall® and HercuWall® HD Series 8 1-Hour Non-Load-Bearing Wall Design¹

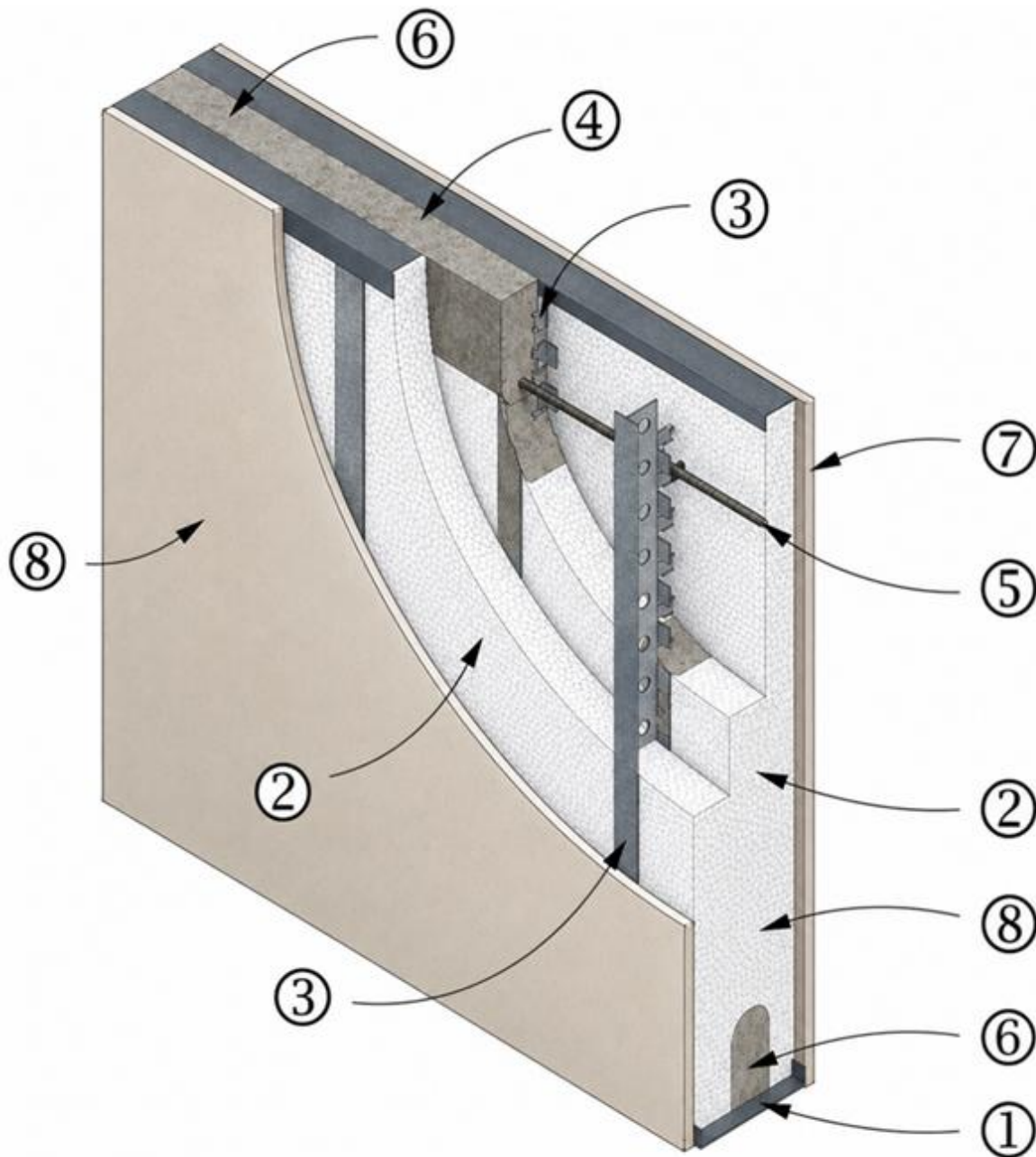


Figure 19. HercuWall® and HercuWall® HD 1-Hour Non-Load-Bearing Fire-Resistance Rated Wall Assemblies.



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Table 9. HercuWall® and HercuWall® HD Series 8, 1-hour Non-Load Bearing Fire-Resistance-Rated Assemblies Description¹

ITEM	COMPONENT	DESCRIPTION	
1	Bottom Track	Manufacturer:	Tremco CPG, Inc.
		Minimum Size:	0.55 mm (0.022 inches) thickness. 203 mm (8 inches) depth.
		Installation:	Caulked and pinned to the foundation or underlying wall per manufacturers specifications.
2	HercuWall® Panel	Manufacturer:	Tremco CPG, Inc.
		Approved Types:	HercuWall® and HercuWall® HD Type S, Type SW, Type A products, Type 2 (24 kg/m ³) [1.5 lbs/ft ³] nominal density.
		Installation:	HercuWall® panels are inserted into the bottom track and fastened through the bottom track into the ShearStrip® with one #8 x 19 mm (3/4-inch) screws into each ShearStrip® to locate the panels.
3	ShearStrip®	Manufacturer:	Tremco CPG, Inc.
		Minimum Thickness:	HercuWall®: 0.55 mm (0.022 inches) thickness, 51 mm (2-inches) width. HercuWall® HD: 0.84 mm (0.033 inches) thickness, 51 mm (2-inches) width.
		Installation:	ShearStrip® are factory installed in HercuWall® panels.
4	Top Track	Manufacturer:	Tremco CPG, Inc.
		Minimum Thickness:	0.55 mm (0.022 inches) thickness. 64 mm (2.5-inches) depth.
		Installation:	1 Top Track is installed on interior face, 1 Top Track is installed on exterior face for 2 Top Tracks per panel. Top Tracks are attached with one #8 x 3/4-inch (19 mm) screws into each ShearStrip®.
5	Reinforcing	Type:	Steel.
		Specifications:	Minimum Grade 400R per CSA G30.18.
		Minimum Size:	13M
		Installation:	Place into the bond beam of the wall and into the prepared rebar hooks (not shown) located in the second from the top position of the shear strip. Rebar size and spacing to be in accordance with the Engineering Design for site.
6	Concrete	Specifications:	Minimum 25 MPa (3600 psi) compressive strength 28 days cure per Section 2.2.10 of this report.
		Installation:	Field review and cylinder testing is required.
7	Interior Finish	Type:	Single layer Type X gypsum board complying with ASTM C1396, ASTM C1177 or CSA A82.27
		Minimum Thickness:	16 mm (5/8-inch).
		Installation:	Single layer on each face. The gypsum is to be anchored into the underlying ShearStrip® at 203 mm (8 inches) on center around the gypsum perimeter and 305 mm (12-inches) on center spacing in the field, with #6 32 mm (1-1/4-inch) length Type S drywall screws. Joints and screw heads are to be taped and mudded minimum Level 3 per ASTM C840.
8	Exterior Sheathing	Types:	1) Single layer Type X gypsum board complying with ASTM C1396, ASTM C1177 or CSA A82.27.
		Thickness:	1) Type X gypsum wallboard - Minimum 16 mm (5/8-inches).
		Installation:	1) Single layer on each face. The gypsum is to be anchored into the underlying ShearStrip® at 203 mm (8 inches) on center around the gypsum perimeter and 305 mm (12-inches) on center spacing in the field, with #6 32 mm (1-1/4 inch) length Type S drywall screws. Joints and screw heads are to be taped and mudded minimum Level 3 per ASTM C840.

Note 1: HercuWall® and HercuWall® HD Series 8 panel assemblies described above, have not been evaluated for seismic capacity.

8.3.2 HercuWall® and HercuWall® HD Series 8, 2-hour Non-Load Bearing Fire-Resistance-Rated Assemblies.

8.3.2.1 HercuWall® and HercuWall® HD Series 8, 2-Hour Non-Load-Bearing Wall Design¹

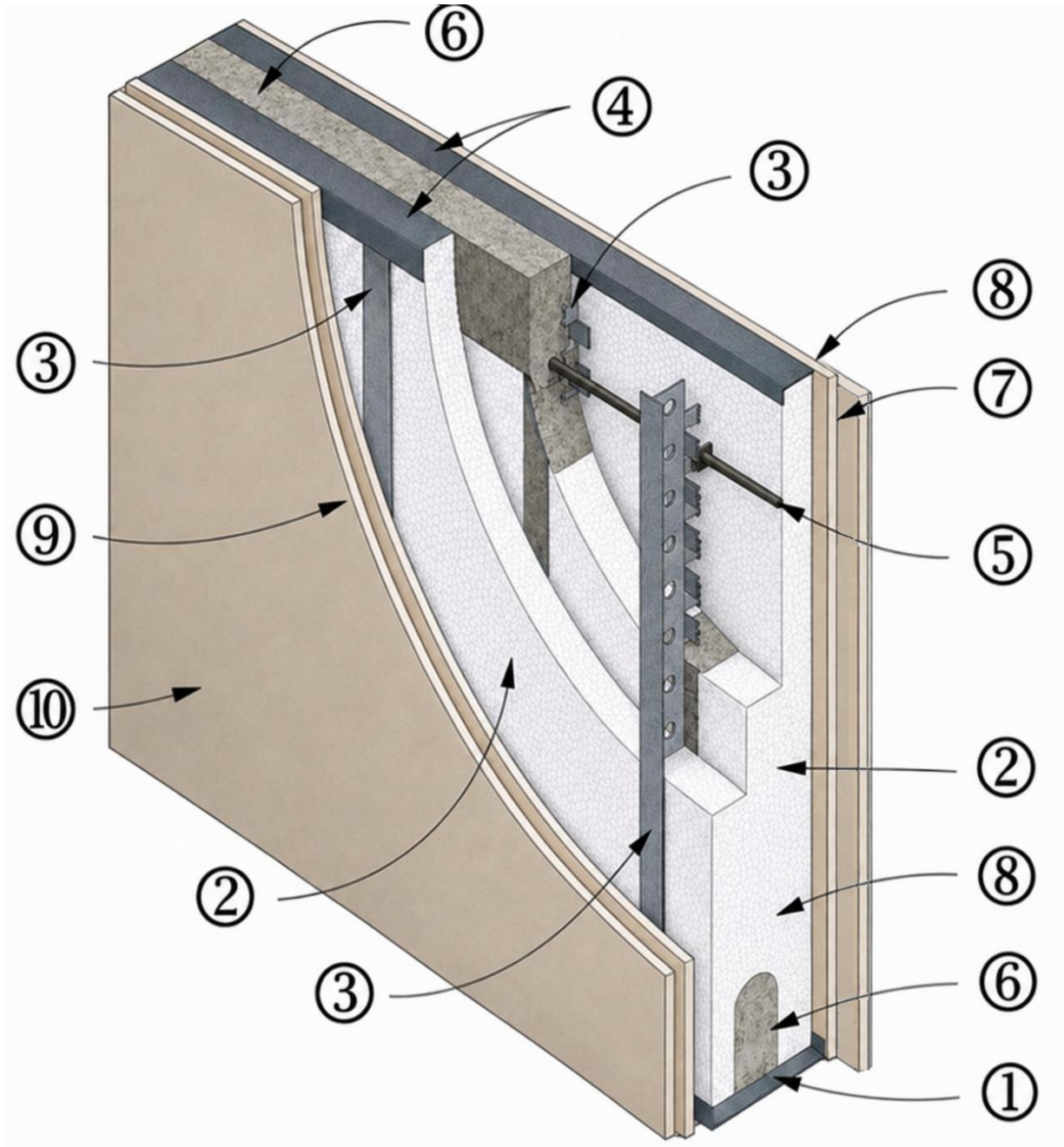


Figure 20. HercuWall® and HercuWall® HD 2-Hour Non-Load-Bearing Fire-Resistance Rated Wall Assemblies



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Table 10. HercuWall® and HercuWall® HD Series 8, 2-hour Non-Load Bearing Fire-Resistance-Rated Assemblies Description¹

ITEM	COMPONENT	DESCRIPTION	
1	Bottom Track	Manufacturer:	Tremco CPG, Inc.
		Minimum Size:	0.55 mm (0.022 inches) thickness. 203 mm (8 inches) depth.
		Installation:	Caulked and pinned to the foundation or underlying wall per manufacturers specifications.
2	HercuWall® Panel	Manufacturer:	Tremco CPG, Inc.
		Approved Types:	HercuWall® and HercuWall® HD, Type S, Type SW, Type A products, Type 2 (24 kg/m ³) [1.5 lbs/ft ³] nominal density.
		Installation:	HercuWall® panels are insert into the bottom track and fastened through the bottom track with one #8 x 19 mm (3/4-inch) screw into each ShearStrip® to locate the panels.
3	ShearStrip®	Manufacturer:	Tremco CPG, Inc.
		Minimum Thickness:	HercuWall®: 0.55 mm (0.022 inches) thickness, 51 mm (2-inches) width. HercuWall® HD: 0.84 mm (0.033 inches) thickness, 51 mm (2-inches) width.
		Installation:	ShearStrip® are factory installed in HercuWall® panels.
4	Top Track	Manufacturer:	Tremco CPG, Inc.
		Minimum Thickness:	0.55 mm (0.022 inches) thickness. 2.5 inches (64 mm) depth.
		Installation:	1 Top Track is installed on interior face; 1 Top Track is installed on exterior face for 2 Top Tracks per panel. Top Tracks are attached with one #8 x 19 mm (3/4-inch) screws into each ShearStrip®.
5	Reinforcing	Type:	Steel.
		Specifications:	Minimum Grade 400R per CSA G30.18.
		Minimum Size:	13M.
		Installation:	Place into the bond beam of the wall and into the prepared rebar hooks (not shown) located in the second from the top position of the shear strip. Rebar size and spacing to be in accordance with the Engineering Design for site.
6	Concrete	Specifications:	Minimum 25 MPa (3600 psi) compressive strength 28 days cure per Section 2.2.10 of this report.
		Installation:	Field review and cylinder testing is required.
7-8	Interior Finish	Type:	Double layer Type X gypsum board complying with ASTM C1396, ASTM C1177 or CSA A82.27.
		Minimum Thickness:	16 mm (5/8-inch).
		Installation:	Double layer on each face. The first gypsum layer is to be anchored into the underlying ShearStrip® at 203 mm (8-inches) on center around the gypsum perimeter and 610 mm (24 inches) on center spacing in the field, with #6 1 32 mm (1.25-inch) length Type S drywall screws. The second gypsum layer is to be anchored into the underlying ShearStrip® at 203 mm (8 inches) on center around the gypsum perimeter and 305 mm (12 inches) on center spacing in the field, with #6 51 mm (2-inch) length Type S drywall screws. Joints between gypsum layers are required to have a minimum offset of 610 mm (24 inches). Joints and screw heads are to be taped and mudded with minimum Level 3 finish per ASTM C840 on the exposed layers only.
9-10	Exterior Sheathing	Type:	Double layer Type X gypsum board complying with ASTM C1396, ASTM C1177 or CSA A82.27.
		Minimum Thickness:	16 mm (5/8-inch).
		Installation:	Double layer on each face. The first gypsum layer is to be anchored into the underlying ShearStrip® at 203 mm (8 inches) on center around the gypsum perimeter and 24 inches (610 mm) on center spacing in the field, with #6 32 mm (1.25-inch) length Type S drywall screws. The second gypsum layer is to be anchored into the underlying ShearStrip® at 203 mm (8 inches) on center around the gypsum perimeter and 12 inches (305 mm) on center spacing in the field, with #6 51 mm (2-inch) length Type S drywall screws. Joints between gypsum layers are required to have a minimum offset of 610 mm (24 inches). Joints and screw heads are to be taped and mudded with a minimum Level 3 finish per ASTM C840 on exposed layers.

Note 1: HercuWall® and HercuWall® HD Series 8 panel assemblies described above have not been evaluated for seismic capacity.



9.0 SUPPLEMENTAL CODES

9.1 2024 British Columbia Building Code (BCBC):

HercuWall® and HercuWall® HD Series 8 panels, as detailed in Sections 2.0 through 8.0 of QAI CER_{CAN}-1081 are acceptable for use as stay-in-place concrete forms when incorporated into exterior and interior wall assemblies designed in accordance with the applicable provisions of the 2024 British Columbia Building Code (BCBC), this report, and applicable Engineering Design. Upon installation of these panels and completion of the wall assembly, the HercuWall® and HercuWall® HD Series 8 panels form part of the finished wall system and shall comply with the applicable BCBC requirements for structural performance, fire protection, environmental separation, and other applicable performance requirements. See Section 10.4 for specific code references related to the evaluation of this product.

9.2 2023 National Building Code Alberta Edition (NBC(AE)):

HercuWall® and HercuWall® HD Series 8 panels, as detailed in Sections 2.0 through 8.0 of QAI CER_{CAN}-1081 are acceptable for use as stay-in-place concrete forms when incorporated into exterior and interior wall assemblies designed in accordance with the applicable provisions of the 2023 National Building Code Alberta Edition (NBC(AE)), this report, and applicable Engineering Design. Upon installation of these panels and completion of the wall assembly, the HercuWall® and HercuWall® HD Series 8 panels form part of the finished wall system and shall comply with the applicable NBC(AE) requirements for structural performance, fire protection, environmental separation, and other applicable performance requirements. See Section 10.4 for specific code references related to the evaluation of this product.

9.3 2024 Ontario Building Code (OBC):

HercuWall® and HercuWall® HD Series 8 panels, as detailed in Sections 2.0 through 8.0 of QAI CER_{CAN}-1081 are acceptable for use as stay-in-place concrete forms when incorporated into exterior and interior wall assemblies designed in accordance with the applicable provisions of the 2024 Ontario Building Code (OBC) this report, and applicable Engineering Design. Upon installation of these panels and completion of the wall assembly, the HercuWall® and HercuWall® HD Series 8 panels form part of the finished wall system and shall comply with the applicable OBC requirements for structural performance, fire protection, environmental separation, and other applicable performance requirements. See Section 10.4 for specific code references related to the evaluation of this product.

9.4 Building Code References

Table 11 – Building Code References and Solution Types:

Property	Building Code References				Solution Type
	2025/2020 NBC	2024 BCBC	2023 NBC(AE)	2024 OBC	
Protection of Foam Plastics,	3.1.4.2, 9.10.17.10	3.1.4.2, 9.10.17.10	3.1.4.2, 9.10.17.10	3.1.4.2, 9.10.17.10	Acceptable
Combustible Materials	3.1.5.14, 3.1.5.15	3.1.5.14, 3.1.5.15	3.1.5.14, 3.1.5.15	3.1.5.14, 3.1.5.15	Acceptable
Fire Resistance Rating	3.1.7, 9.10.3.1	3.1.7, 9.10.3.1	3.1.7, 9.10.3.1	3.1.7, 9.10.3.1	Acceptable
Wind Load Resistance	4.1.7, 5.2.2.2	4.1.7, 5.2.2.2	4.1.7, 5.2.2.2	4.1.7, 5.2.2.2	Alternative
Concrete and Reinforcement	4.3.3.1, 9.3.1.1	4.3.3.1, 9.3.1.1	4.3.3.1, 9.3.1.1	4.3.3.1, 9.3.1.1	Acceptable
Thermal Insulation	5.3.1.1, 9.25.2	5.3.1.1, 9.25.2	5.3.1.1, 9.25.2	5.3.1.1, 9.25.2	Acceptable
Vapor Barrier	5.5.1.1, 9.25.4.2	5.5.1.1, 9.25.4.2	5.5.1.1, 9.25.4.2	5.5.1.1, 9.25.4.2	Alternative

Table 12 – Building Code Objectives:

Category	Subcategory	Objective	Definition
OS - Safety	OS1 Fire Safety	OS1.1	fire or explosion occurring
		OS1.2	fire or explosion impacting areas beyond its point of origin
		OS1.3	collapse of physical elements due to a fire or explosion
		OS1.5	persons being delayed in or impeded from moving to a safe place during a fire emergency
	OS2 Structural Safety	OS2.1	loads bearing on the <i>building</i> elements that exceed their <i>loadbearing capacity</i>
		OS2.3	damage to or deterioration of building elements
		OS2.5	instability of the building or part thereof
OH - Health	OH1 Indoor Conditions	OH1.2	inadequate thermal comfort
		OH1.3	contact with moisture
OP - Fire and Structural Protection of Buildings	OP1 Fire Protection of the Building	OP1.1	fire or explosion occurring
		OP1.2	fire or explosion impacting areas beyond its point of origin
		OP1.3	collapse of physical elements due to a fire or explosion
	OP2 Structural Sufficiency of the Building	OP2.1	loads bearing on the <i>building</i> elements that exceed their <i>loadbearing capacity</i>
		OP2.3	damage to or deterioration of building elements
		OP2.5	instability of the building or part thereof



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Table 13 – Building Code Functional Statements:

Statement	Definition
F01	To minimize the risk of accidental ignition
F02	To limit the severity and effects of fire or explosions.
F03	To retard the effects of fire on areas beyond its point of origin.
F04	To retard failure or collapse due to the effects of fire.
F20	To support and withstand expected loads and forces
F22	To limit movement under expected loads and forces.
F51	To maintain appropriate air and surface temperatures.
F61	To resist the ingress of precipitation, water or moisture from the exterior or from the ground.
F62	To facilitate the dissipation of water and moisture from the building.
F80	To resist deterioration resulting from expected service conditions.
F92	To limit the amount of uncontrolled thermal transfer through the <i>building</i> envelope.

10.0 ELIGIBILITY OF REPORT

QAI is an independent and accredited certification, testing and inspection agency following the requirements of ISO/IEC 17065, ISO/IEC 17025, and ISO/IEC 17020. Accreditations are held by QAI for the Conformity Assessment of products used in construction as governed by building codes. QAI operates in accordance with recognized standards of impartiality, technical competence and independence as required to support alternative solutions per the National Building Code of Canada (NBC) or provincial / municipal codes.

QAI's Canadian Code Evaluation Report is in accordance with the National Building Code of Canada (NBC) 2025 / 2020, Division A, Section 1.2.1.1, which permits the use of alternative solutions to the acceptable solutions in Division B. An alternative solution must at least meet the minimum level of performance required or satisfy the intent of the Code defined by the objectives and functional statements associated to the applicable acceptable solutions. Supporting data has been evaluated by QAI for compliance of the noted materials and assemblies with the applicable Code requirements, as detailed in this report.

In accordance with STANDATA interpretation 23-BCI-005, QAI is recognized by the Government of Alberta Ministry of Municipal Affairs as an approved organization to issue evaluation reports to determine compliance with the requirements of the National Build Code Alberta Edition (NBC(AE)).

This Canadian Code Evaluation Report has been developed to demonstrate that the noted materials or assemblies satisfy the performance associated with the relevant objectives and functional statements of the NBC, or noted provincial / municipal codes, and is intended to support authorities having jurisdiction (AHJs), design professionals, contractors, and engineers in assessing the compliance of the evaluated product. The limitations of this evaluation are detailed in the report and QAI accepts no responsibility for site specific conditions and any product or installation changes beyond the scope of this evaluation.

The report has been reviewed and approved by a Registered Professional Engineer licensed in a Canadian jurisdiction.

The product is labelled and subject to ongoing surveillance using QAI's accredited ISO/IEC 17020 inspection program to ensure continued compliance.

For more information regarding QAI Laboratories, please visit www.QAI.org.



The above is an example of the QAI registered Listing mark. The Listing mark may only be used by the Report Holder per the QAI service agreement on products defined in this report. The 'c' indicator in the 8 o'clock position indicates the product complies with the properties evaluated with limitations outlined in this report for use in the Canadian market. A 'us' indicator in the 4 o'clock position indicates the product has been evaluated for use in the US market.



11.0 REFERENCED STANDARDS

CAN/ULC S701.1 *Standard for Thermal Insulation, Polystyrene Boards.*

CAN/ULC S102.2 *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies.*

CAN/ULC S124 *Standard Method of Test for the Evaluation of Thermal Barriers for Foamed Plastic.*

CAN/ULC S101 *Standard Methods of Fire Endurance Tests of Building Construction Materials.*

Insulation – Full-Scale Room Test

ASTM C1396/C1396M *Standard Specification for Gypsum Board.*

ASTM E72 *Standard Test Methods of Conducting Strength Tests of Panels for Building Construction.*

ASTM D1929 *Standard Test Method for Determining Ignition Temperature of Plastics.*

ASTM C840 *Standard Specification for Application and Finishing of Gypsum Board.*

ASTM A615 *Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement.*

ASTM A653/A653M *Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.*

ASTM C1177 *Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.*

CSA S16 *Design of Steel Structures.*

CSA A23.3 *Design of Concrete Structures.*

CSA A82.27 *Gypsum Board.*