Strong-Wall® Site-Built Portal Frame System **Hardware Installation Instructions**



Single-Wall Portal

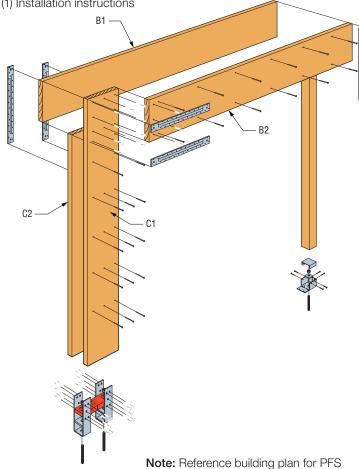


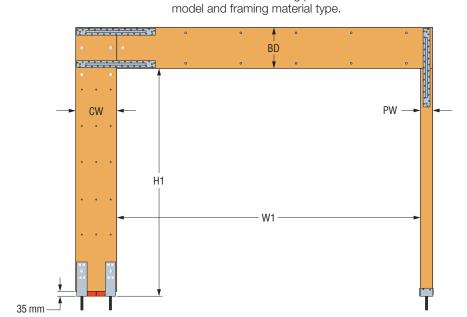
Single-Wall Portal Frame Kit

- (2) Holdown assemblies
- (2) Orange composite standoff bases*
- (5) Moment connection straps
- (1) Adjustable post base (ABW44Z)
- (33) SDW22300 truss-ply screws
- (8) SD9112 Connector screws
- (1) 6-lobe T40 driver bit

(1) Installation instructions

*Extra composite standoff bases included. Only use the base that corresponds to the column width and discard extra base(s).



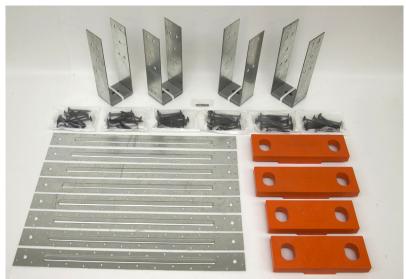


Single-Wall Portal Installation

Single-Wall Portal Cut Lengths

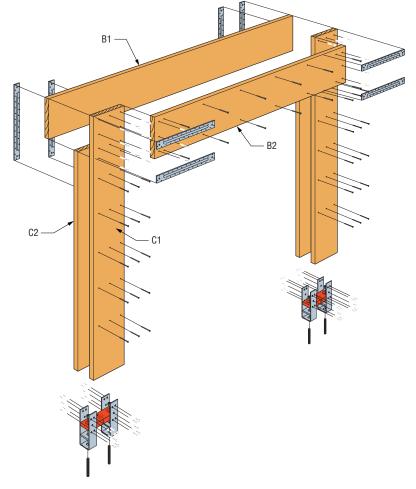
Tall column (C1) = H1 + BD - 35 mmShort column (C2) = H1 - 35 mmLong beam (B1) = W1 + CW + PWShort beam (B2) = W1 + PW

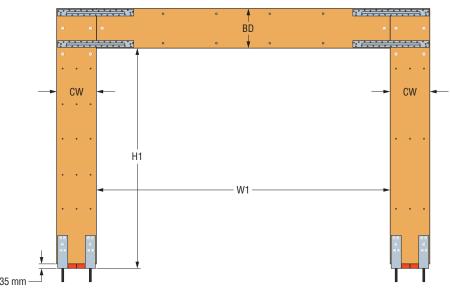
Double-Wall Portal



Double-Wall Portal Frame Kit

- (4) Holdown assemblies
- (4) Orange composite standoff bases*
- (8) Moment connection straps
- (66) SDW22300 truss-ply screws
- (1) 6-lobe T40 driver bit
- (1) Installation instructions





Double-Wall Portal Installation

Double-Wall Portal Cut Lengths

Tall column (C1) = H1 + BD - 35 mmShort column (C2) = H1 - 35 mmLong beam (B1) = W1 + CW + CWShort beam (B2) = W1

Legend:

BD = Beam Depth **CW** = Column Width **PW** = Post Width

H1 = Opening Height W1 = Opening Width

Strong-Wall® Site-Built Portal Frame System Hardware Installation Instructions

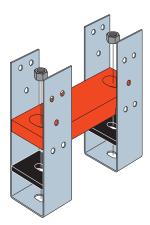


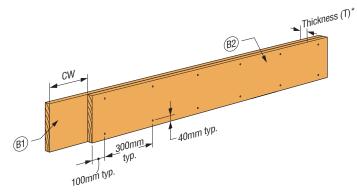
Holdown Installation

- 1. Install holdown assembly on anchor bolts as shown.
- 2. Tighten nuts on anchor bolts.

Note: Tighten nuts only after adhesive has cured.

Note: Refer to T-L-PFSANAU20 for anchorage installation instructions and details. Reference building plans for anchorage and embedment depth. Additional anchorage information can be found at **strongtie.com/au**.

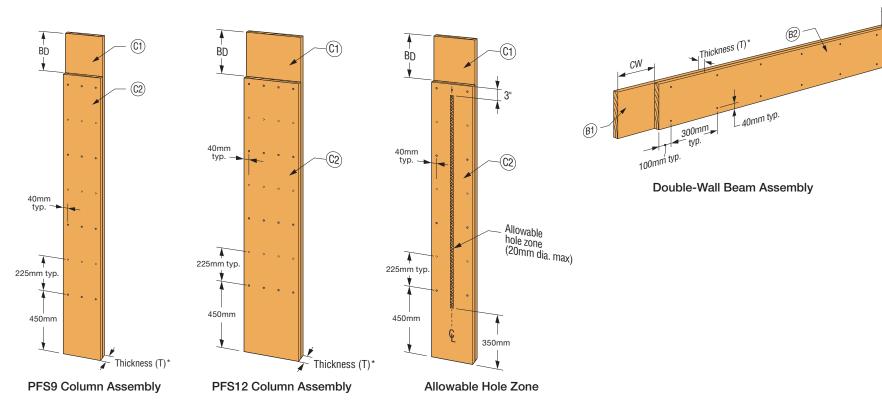




Single-Wall Beam Assembly

*Note: Required Fasteners:

SDW22300 SDW Truss-Ply Screw (installation only required from one side) or use 75mm x 3.75mm nails.



Note: If using nails, every other row is installed on opposite side.

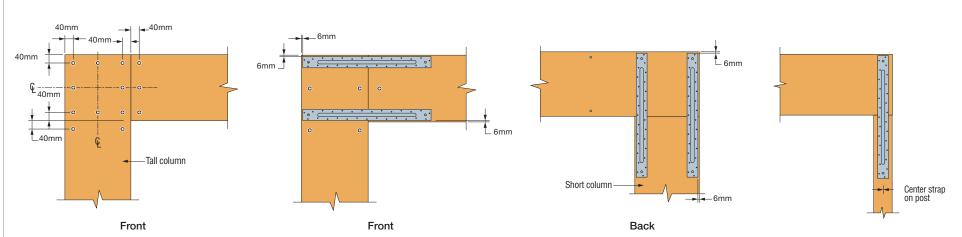
*Note: Required Fasteners:

SDW22300 SDW Truss-Ply Screw (installation only required from one side) or use 75mm \times 3.75mm nails.

Column-to-Beam Moment Connection Installation

- 1. Connect the beam sub-assembly to the column sub-assembly starting with the SDW screws (provided), as shown.
- 2. Install the PFS-MCS straps using 3.75mm-diameter nails (64mm minimum length). The straps must be installed horizontally on the tall column (C1) side and vertically on the short column (C2) side, as shown.

Note: Strong-Drive® SD10212 Connector screws (not provided) may be substituted for the nails.



Column-to-Beam — Moment Connection Details

Single-Wall Portal — Post-to-Beam Detail (strap only required on one side)