Wall Panels

- Structural wall panel
- Architectural wall panel
- Cladding wall panel
- Sandwich wall panel



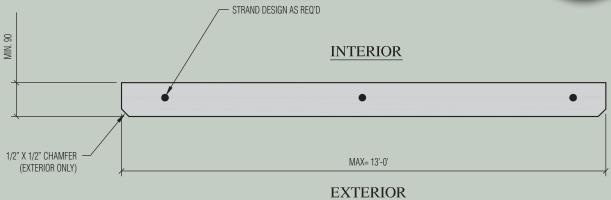
Wall Panels

- Assorted styles and colours
- Reveals and other patterns
- Painted finish
- Bolted, welded and knife connections available

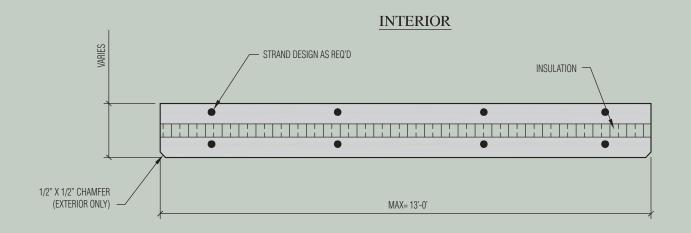


Wall Panel Sections

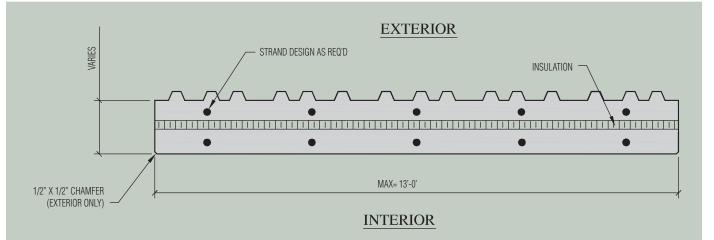




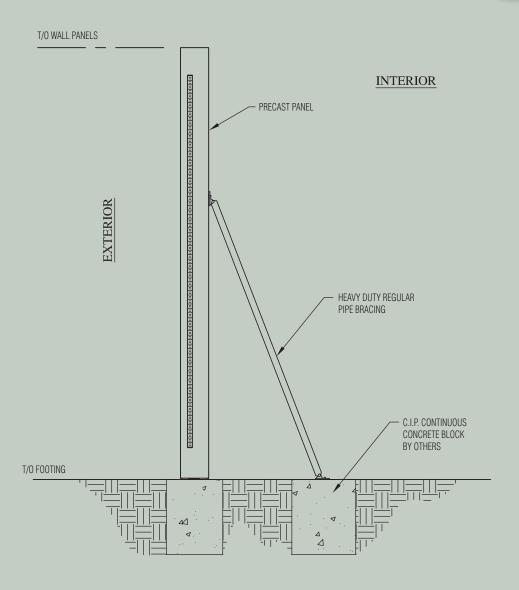
Solid Cladding Panel



Insul. Cladding/Structural Panel



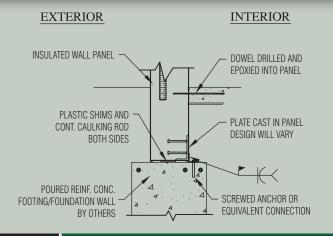




Structural Notes

- Design wind loads 1.2kPa (25PSF)
- Install braces at 1220 (4'-0") nominal spacing, at panels supported by knife connections the braces can be added to the supporting panels.
- Cast in place concrete to be minimum 30 MPa
- Braces to be anchored using 5" long 5/8" HILTI HUS-H screw anchor or approved equivalent installed in accordance with manufacturers recommendations
- Screw anchors to have minimum 3" embedment in wall panels
- Screw anchors to have minimum 4" embedment in cast in place concrete





INSULATED WALL PANEL

PLASTIC SHIMS AND
CONT. CAULKING, BACKER
ROD BOTH SIDES

POURED REINF. CONC.
FOOTING/FOUNDATION WALL
BY OTHERS

INTERIOR

COIL LOOP INSERT

DOWEL 2/PANEL U.N.O.

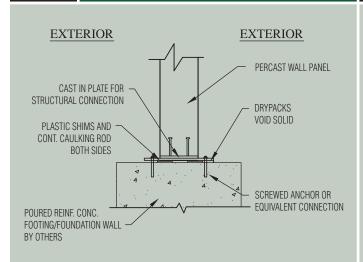
DP. HOLE DRILLED ON SITE

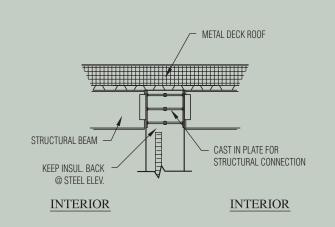
WL01

Bottom connection cast in plate

WL02

Bottom connection dowel connection



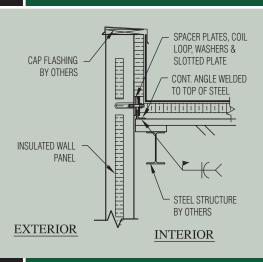


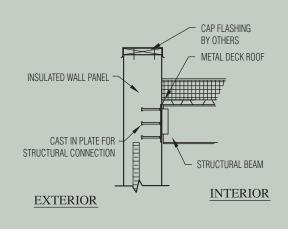
WL03

Bottom connection cast in plate

WL04

Deck bearing back to back connection





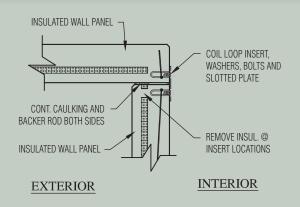
WL05

Lateral connection T/O panel

WL06

Deck bearing / Beam connection





INTERIOR

INSULATED L-100x100x12x100LG ANGLE

CAST IN PLATE

CAST IN PLATE

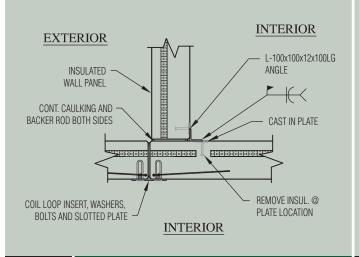
CONT. CAULKING, BACKER ROD BOTH SIDES

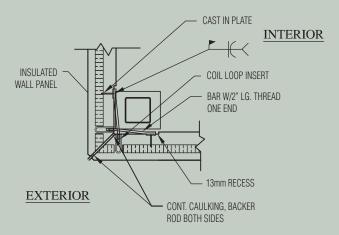
WL07

Exterior 90° corner connection

WL08

Exterior 90° corner connection



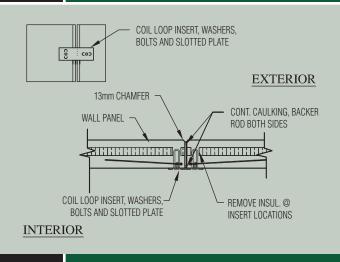


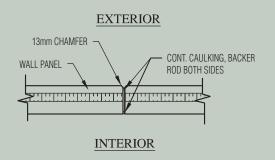
WL09

Intersecting 90° corner connection

WL10

Exterior 90° corner connection



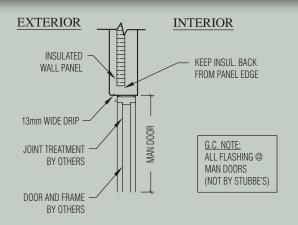


WL11

Panel to panel connection

WL12

Panel to panel vertical



INTERIOR

KEEP INSUL BACK CONNECTION OF DOOR TO PANEL BY OTHERS

INSULATED WALL PANEL

13 x13 CHAMFER MAN DOOR

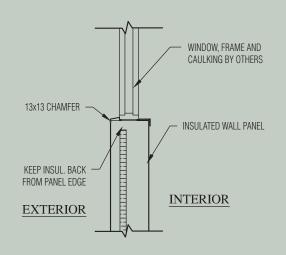
G.C. NOTE:
ALL FLASHING @ MAN DOORS
(NOT BY STUBBE'S)

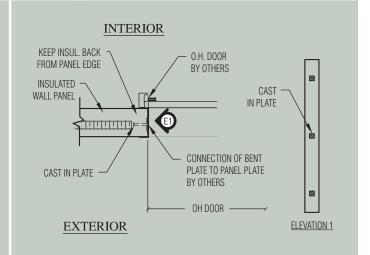
WL13

Panel edge @ head of man door (top view)

WL14

Panel edge @ head of man door (side view)



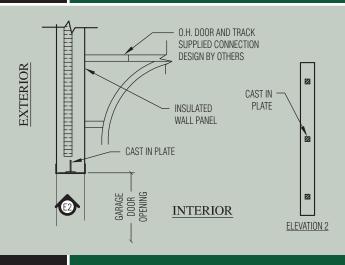


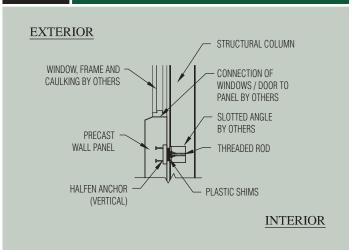
WL15

Panel edge @ window sill on exterior panels

WL16

Door jam @ 0.H. door #1



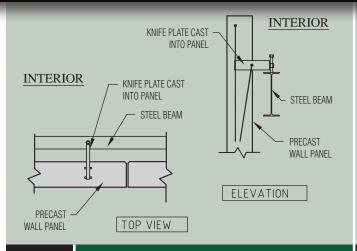


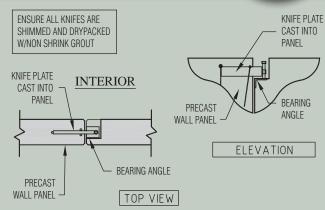
WL17

Door jam @ 0.H. door #2

WL18

Panel to column connection



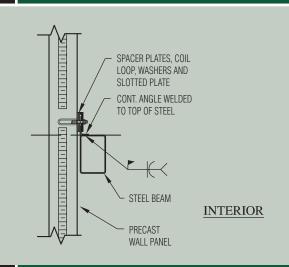


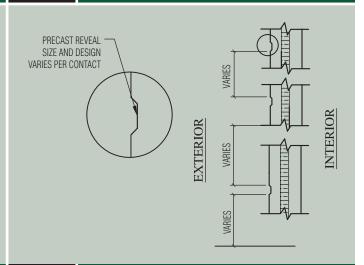
WL19

Knife connection to beam

WL20

Knife connection to ADJACENT PANEL





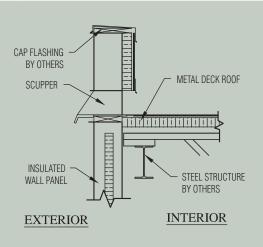
WL21

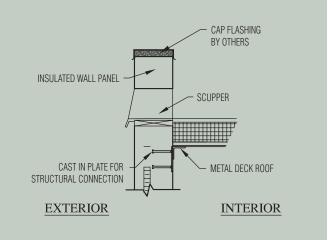
EXTERIOR

Laterial connection @ hung panel

WL22

Reveal locations and profile





WL23 Scupper detail #1

WL24

Scupper detail #2

Wall Panel Specifications



1. General:

- a. Included:
 - i. Precast Wall Panels
 - 1. Architectural & Structural Panels.
 - 2. Sandwich & Cladding styles.
 - ii. Structural connections.
 - iii. Backer rod and caulking of panel joints.

2. Reference Material:

- a. CSA A23.4-09: Precast Concrete Material & Construction.
- b. Precast Concrete Institute (PCI): Manual on Design of Connections for Precast.
- c. Precast Concrete Institute (PCI): Design Handbook Precast & Prestressed Concrete.

3. Shop Drawings:

- Approval drawings will require a review by the Contractor & Design Firms under contract of each project.
 Discrepancies, questions & verification of design is required and returned in writing prior to commencement of production.
- b. Production drawings will bear a signed and sealed Engineer stamp, slab locations, identification marks, connection details, dimensions, openings larger than 6" in size, loadings and other relative information.

4. Quality Assurance:

a. Conformity to PCI manual on design of connection for Precast Prestressed Concrete, PCI Design Handbook – Precast & Prestressed Concrete, CSA A23.4.

5. Accessories:

- a. Shim pads: Plastic or steel to assist transfer of loads.
- b. Cast in inserts / plates or similar relevant to remainder of structure.
- c. Connections (i.e. knife, bolted, welded) between panel units.

6. Finishes:

- a. Steel form.
- b. Troweled.
- c. Sandblast.
- d. Ribbed pattern.
- e. Painted (with sand additive option).
- f. Exposed aggregate (vary with availability contact Stubbes for current options).
- g. Colours (vary with availability contact Stubbes for current options).

7. Installation:

- a. Install panels with corresponding identification mark as indicated on production / shop drawing.
- b. Ensure connections provided as detailed on production / shop drawing.
- c. Backer rod and caulking of joints between precast panels and foundation.

8. Excluded items related to precast and installation:

- a. Drypacking / infill of gap between precast and structure.
- b. Perimeter caulking between precast and structure (other than foundation).
- c. Winter heat / protection from weather conditions.
- d. Site / field dimensions (Contractor and Project Designers responsible to provide information during shop drawing approval).