**PROJECT: 3630P - 3600 x 3000 x 2439 (4-12 PITCH)**

**LOCATION:**

**CUSTOMER:**

**JOB #: 3630P**

**GENERAL INFORMATION**

CONCRETE PANEL THICKNESS:
- WALLS: 102mm
- ROOF: 127mm
- FLOOR: 152mm c/w 25mm STEPDOWN

DESIGN LIVE LOADS:
- SNOW: 60 PSF
- FLOOR: 100 PSF
- WIND: 27 PSF

OCCUPANCY CATEGORY: NORMAL (1.0)

ALL REBAR CAGES SHALL BE WELDED OR TIED

**FINISHES**

EXTERIOR: PLEASE SPECIFY (REFER TO SHEET F-1)
- SMOOTH CONCRETE

INTERIOR: SMOOTH CONCRETE

**PAINT COLOURS**

DOORS: PLEASE SPECIFY (REFER TO SHEET F-1)

EXTERIOR WALLS: NOT PAINTED

INTERIOR WALLS: NOT PAINTED

FLOOR: NOT PAINTED

ROOF: PLEASE SPECIFY (REFER TO SHEET F-1)

FLOOR EDGE: SHERWIN WILLIAMS H&C STAIN SPECIAL GREY

(COLOUR SHOWN IN IMAGE MAY NOT BE EXACT)

**ASSEMBLY**

IN HOUSE

**APPROXIMATE BUILDING WEIGHT:** 35 200 LBS (15.96 TONNE)

**DRAWING INDEX**

CVR - COVER PAGE
B - BUILDING DRAWINGS
P - PRODUCTION DRAWINGS
A - ASSEMBLY DETAILS
S - SITE PREPARATION
L - LIFT STUDY
D - DOOR DETAILS
F - FINISHES
M - MATERIALS

**NOTES:**

1) PLEASE REVIEW ALL DRAWINGS AND PROVIDE ANY INFORMATION REQUESTED OR MISSING. MARK ALL CHANGES DIRECTLY ON OUR DRAWINGS. PROJECTS WILL NOT BE RELEASED FOR PRODUCTION UNTIL A FULL SET OF DRAWINGS ARE SIGNED, DATED, AND RETURNED TO HY-GRADE MARKED APPROVED. PLEASE RETURN VIA EMAIL OR FAX.

2) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY REQUIRED BUILDING PERMITS PRIOR TO THE SHIPMENT DATE OF THE BUILDING.

**IMAGES SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND DO NOT REPRESENT ACTUAL BUILDING FINISH. PLEASE REFER TO SHEET F-1 FOR STANDARD FINISH OPTIONS AVAILABLE.**
LEFT ELEVATION
EXTERIOR VIEW
FLOOR SLAB
FRONT PANEL
REAR PANEL
BR1
BR2
127
102
TYP
152
TOP OF FINISHED FLOOR
3000
ROOF TOP CAP
BR5L
BR5R
BR6
ROOF SLAB 'A'
152
TYP
2473
2464
600
3325
FL164 - 419mm x 121mm CAST IN VENT c/w BIRD SCREENS
305
1500
1500
1.27
RIGHT ELEVATION
EXTERIOR VIEW
FLOOR SLAB
FRONT PANEL
REAR PANEL
BR1
BR2
127
102
TYP
152
TOP OF FINISHED FLOOR
3000
ROOF TOP CAP
BR5L
BR5R
BR6
ROOF SLAB 'B'
152
TYP
2473
2464
600
3325
FL164 - 419mm x 121mm CAST IN VENT c/w BIRD SCREENS
305
1500
1500
2411 First Street South, St. Catharines, ON, L2R 6P7
Tel: 905-684-8568
Fax: 905-684-8560
www.hygradeprecast.com
SLAB TO WALL & WALL TO ROOF SEALING DETAIL

- **KOROLATH STRIP SHIM 51mm x 3mm THICK**
  - (TOP & BOTTOM OF WALLS)
  - (MAX 610mm SPACING IS REQUIRED)

**FLOOR**

**WALL**

**CAP**

- **CONTINUOUS NPT1 BASF CAULKING (LIMESTONE) AT ROOF SEAM & UNDERSIDE OF ROOF CAP**
- **KOROLATH STRIP SHIM @ TOP & BOTTOM OF WALLS**

**NOTE:**
- Cap will be secured to roof using tapcon screws at every 305mm o/c both sides.

---

**PRODUCT INFORMATION**

- **PROJECT:**
  - **JOB NO.:**
  - **CONTRACT NO.:**
  - **PM:**

**CUSTOMER PROJECT DESIGNER INFORMATION**

- **BY TITLE:**
- **ENGINEER STAMPS:**
- **REF ID:**
- **REV:**
- **DATE:**

**ENGINEER DRAFTED BY**

**CHECKED BY**

**PROJ. CONF.**

**□_______**

**MFG. CONF.**

**□_______**

**VIEWS**

**□_______**

**MASS**

**□_______**

**DIMENSION**

**□_______**

**HARDWARE**

**□_______**

**LIFTING**

**□_______**

**SHEET**

**REV**

**A-1**

---

**QUALITY CONTROL**

- **REV.**
- **DESCRIPTION:**
- **ENG.**
- **DATE:**

**ISSUED FOR APPROVAL**

**FEB 16 2018**

---

**PRODUCT INFORMATION**

- **PROJECT:**
  - **JOB NO.:**
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**ENGINEER DRAFTED BY**

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**MFG. CONF.**

**□_______**

**VIEWS**

**□_______**

**MASS**

**□_______**

**DIMENSION**

**□_______**

**HARDWARE**

**□_______**

**LIFTING**

**□_______**

**SHEET**

**REV**

**A-1**

---

**QUALITY CONTROL**

- **REV.**
- **DESCRIPTION:**
- **ENG.**
- **DATE:**

**ISSUED FOR APPROVAL**

**FEB 16 2018**

---

2411 First Street South, St. Catharines, ON, L2R 6P7
Tel: 905-684-8568
Fax: 905-684-8560
www.hygradeprecast.com
Loop Ferrule Insert

The Loop Ferrule Insert is fabricated by welding a looped strut to a closed-end ferrule. The Loop Ferrule insert is available in various sizes and is well suited for structural connections and the suspension of equipment, piping, etc. Minimum spacing between inserts is twice the minimum corner distance. Safe Working Load provides a factor of safety of approximately 3 to 1 in 3,000 psi normal weight concrete. Safe Working Loads are based on 13mm setback from face of concrete.
1. Granular pad should be at minimum of 610mm wider and 610mm longer than the building, with the building situated at center of pad.

2. The pad area should be stripped of all organic and deleterious material. Excavate to 1219mm below grade or to frost penetration depth. Backfill with OPSS 1010 Granular 'B' compacted to 98% SPDD. Provide a minimum of 406mm of 19mm crush subbase beneath the slab on grade compacted to 100% standard proctor dry density. Provide a minimum 51mm top layer of fine material suitable for grading.

3. Ensure that the granular subbase and the area surrounding the building are well drained by positive slope of subgrade or by underfloor drainage pipes. Ensure all finished surfaces adjacent to the building slope away from the building perimeter.

4. If soil is disturbed, excavation must be lower than the disturbed level as per geotechnical review.

Hy-Grade Precast will not be responsible for any damage or delays caused by poor or un-finished site preparation.

Access

Contractor must provide level unobstructed area large enough for a crane and a tractor-trailer to park adjacent to the pad. The crane must be able to place its outriggers within 1524mm of the edge of the pad. The truck and crane must be able to get side-by-side under their own power. No overhead lines may be within a 22.86m radius of the center of the pad. A minimum or 610mm clearance is required between this building and adjacent buildings.

Strong suggestion for achieving (+/- 1/2") vertical tolerance 1500mm TYP

MIN 51mm of fine material suitable for grading

(+/- 13mm) vertical tolerance (see suggestion below)

406mm of 19mm crush compacted to 100% proctor topped with 51mm min. uncompacted screenings

MIN 51mm of fine material suitable for grading

(+/- 13mm) vertical tolerance (see suggestion below)

1500mm TYP

610 TYP

610 MIN.

MIN 51mm of fine material suitable for grading

(+/- 13mm) vertical tolerance (see suggestion below)

406mm of 19mm crush compacted to 100% proctor topped with 2" min. uncompacted screenings

Allowable bearing capacity of engineered fill is 100KPa

Excavate to a minimum of 1219mm below grade or to frost penetration depth of undisturbed soil. Fill with granular 'B' compacted to 98% proctor to required elevation

MIN 51mm of fine material suitable for grading

(+/- 13mm) vertical tolerance (see suggestion below)

406mm of 19mm crush compacted to 100% proctor topped with 2" min. uncompacted screenings

Temporary 152mm x 152mm or 203mm x 203mm wood is used as a level reference point (depending on building size) around entire perimeter (removable)
**DOOR #1**

**DOOR FRAME**

<table>
<thead>
<tr>
<th>QTY.</th>
<th>SIZE</th>
<th>GAUGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1829 x 2134</td>
<td>16</td>
</tr>
</tbody>
</table>

**OUT-SIDE SWING**

**INTERIOR VIEW**

**321 811 811 191 1829 2134**

**DOORS**

**OUTSIDE SWING**

**MARK** | **QTY.** | **SIZE** | **GAUGE** | **INTERIOR** | **ASTRALGAL** | **HINGE-PREP** | **OPENING** | **PREP** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>1</td>
<td>914 x 2134</td>
<td>18</td>
<td>RIGHT HAND</td>
<td>HONEYCOMB</td>
<td>NONE</td>
<td>TYP 3/DOOR</td>
<td>NONE</td>
</tr>
<tr>
<td>1b</td>
<td>1</td>
<td>914 x 2134</td>
<td>18</td>
<td>LEFT HAND</td>
<td>HONEYCOMB</td>
<td>Z SHAPE</td>
<td>TYP 3/DOOR</td>
<td>NONE</td>
</tr>
</tbody>
</table>

**** USE STOCK MATERIAL **

**DOOR FRAME**

**P.O. #:**

**** EMA PREP FRAME **

**OUTSIDE SWING**

**INTERIOR VIEW**

**914 x 2134 R.H. FIXED DOOR**

**EMA PREP**

**914 x 2134 L.H. ACTIVE DOOR**

**EMA PREP**

**11mm \(\Theta\) HOLE THRU DOOR FRAME - TAPERED OUT TO 19mm \(\Theta\) (TYP. 3 @ TOP)**

**11mm \(\Theta\) HOLE THRU DOOR FRAME - TAPERED OUT TO 19mm \(\Theta\) (TYP. 4 EACH SIDE)**

**OUTSIDE SWING**

**INTERIOR VIEW**

**STEEL FRAME IS NOT CAST INTO CONCRETE PANEL**

**WELDED ON Z SHAPE ASTRAGAL**

**11mm \(\Theta\) HOLE**

**HARDWARE**

**QTY.** | **DESCRIPTION**
|-------|-----------------
| 2     | 'A' HINGE SET - TYP. 3/DOOR (TAYMOR 4100, NRP, BB, BUTT HINGE, 114mm x 102mm, GREY PRIMED)
| 1     | 'B' LOCK SET - DOREX TLA61 32D - STANDARD SCHLAGE "C" w/ 178mm DOOR PULL & 102mm x 406mm PLATE
| 2     | 'C' CHECK CHAIN w/BINDER POSTS & FASTENERS (N157A)
| 1     | 'D' THRESHOLD - CT-804 TYP. (KN CROWDER) x 1829mm LONG
| 1     | 'E' WEATHER STRIP - TYP. (KN CROWDER W-29) x 8231mm LONG
| 1     | 'F' SWEEP - TYP. (KN CROWDER W-135-2) x 1829mm LONG - CUT TO LENGTH BY HY-GRADE
| 1     | 'G' DRIP CAP TYP. (KN CROWDER W-3) 1930mm LONG
| 2     | 'H' BARREL BOLT - 203mm ZINC PLATED HEAVY DUTY #SP108582

**REFERENCE TO PAGE D-2 FOR DETAILS**

**VENDOR:**

**REGIONAL DOORS & HARDWARE**

**FILE: I:\autocad\Files\Buildings\- STANDARD BUILDING LIBRARY (2015)\CAD FILES\Standard Hy-Grade Buildings\3630P - 3600 X 3000 X 2439 ID (4-12 Pitch)\3630P 3600 X 3000 X 2439 ID (4-12 Pitch).dwg**

**28 February 2018**

**CUSTOMER PROJECT INFORMATION**

**PM**

**PROJECT DESIGNER INFORMATION**

**ENGINEER**

**DRAFTED BY**

**CHECKED BY**

**PROJ. CONF.**

**MFG. CONF.**

**VIEWS**

**MADE TO ORDER**

**QUALITY CONTROL**

**ISSUED FOR APPROVAL**

**DATE**

**SS**

**ENGINEER STAMPS**

**REF ID**

**REV**

**DATE**

**28 February 2018**
**FINISHES**

**EXTERIOR:**
- PLEASE SPECIFY
  - SIMULATED OLD ASHLAR STONE
  - SIMULATED 8x3 SMOOTH BRICK
  - EXPOSED AGGREGATE

**INTERIOR:**
- SMOOTH CONCRETE

**PAINT COLOURS**

**SAMPLE STOCK COLOURS**

- SPECIAL GREY
- ANTI GREY
- RELIABLE TAN
- MAPLE BROWN
- SPICED CIDER
- COLONIAL WHITE
- FOREST GREEN
- CONSUMER BLUE
- AUTUMN RIDGE RED

**DOOR & FRAMES:**
- PLEASE SPECIFY

**EXTERIOR WALLS:**
- ONLY AVAILABLE WITH SMOOTH BRICK TEXTURE

**INTERIOR WALLS:**
- NOT PAINTED

**FLOOR:**
- NOT PAINTED

**ROOF:**
- PLEASE SPECIFY

**FLOOR EDGE:**
- SW H&C STAIN - SPECIAL GREY