PROJECT:

18-3722 NHS PARKING LOT - 3000 x 2400 x 2439 (4-12 PITCH)

LOCATION:

ST. CATHARINES, ON

CUSTOMER

WIENS UNDERGROUND ELECTRIC LTD.

JOB #

18-3722

DRAWING APPROVAL

CUSTOMER: ☐ APPROVED ☐ APPROVED AS NOTED
☐ REVISE AND RESUBMIT

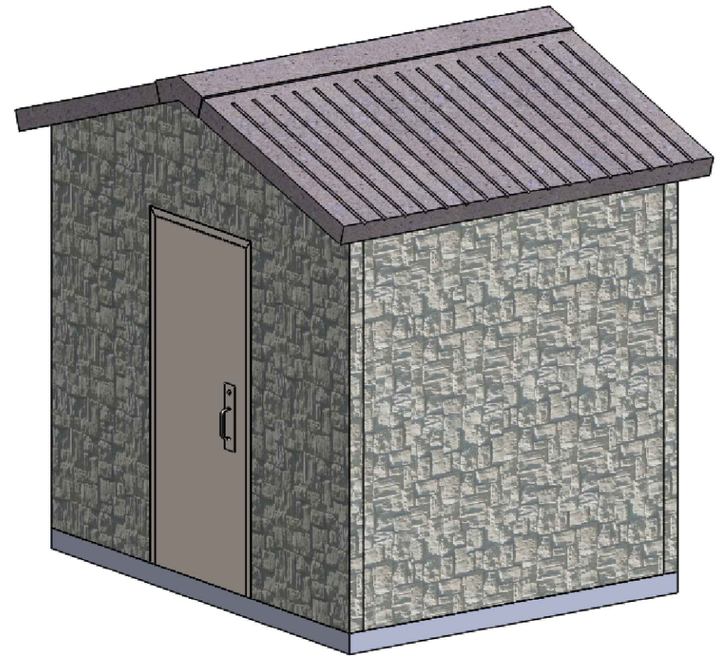
SIGNED BY:	DATE:

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.

REV.	DESCRIPTION	ENG.	DATE
0	ISSUED FOR APPROVAL	SS	SEPT 11 2018





IMAGES SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND DO NOT REPRESENT ACTUAL BUILDING FINISH. PLEASE REFER TO SHEET F-1 FOR STANDARD FINISH OPTIONS AVAILABLE.

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: SIMULATED OLD STONE ASHLAR
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 (HY-GRADE LIGHT GREY)

[COLOUR SHOWN IN IMAGE MAY NOT BE EXACT]

ASSEMBLY
IN HOUSE

APPROXIMATE BUILDING WEIGHT: 26 700 LBS (12.1 TONNE)

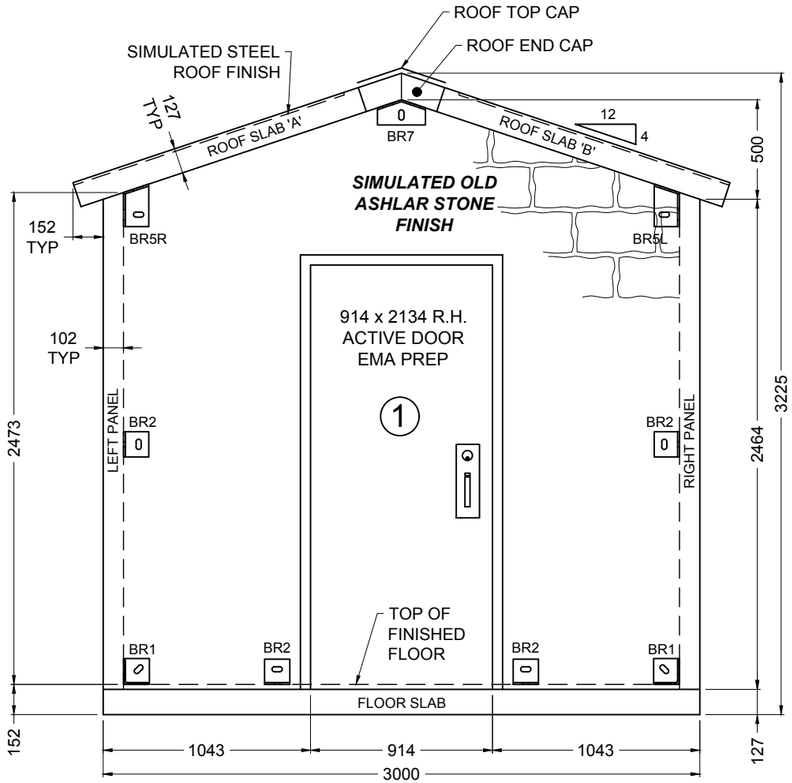
DRAWING INDEX

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

LICENSED PROFESSIONAL ENGINEER
V. V. SAFONOV
100088334
Sep. 12, 2018
PROVINCE OF ONTARIO

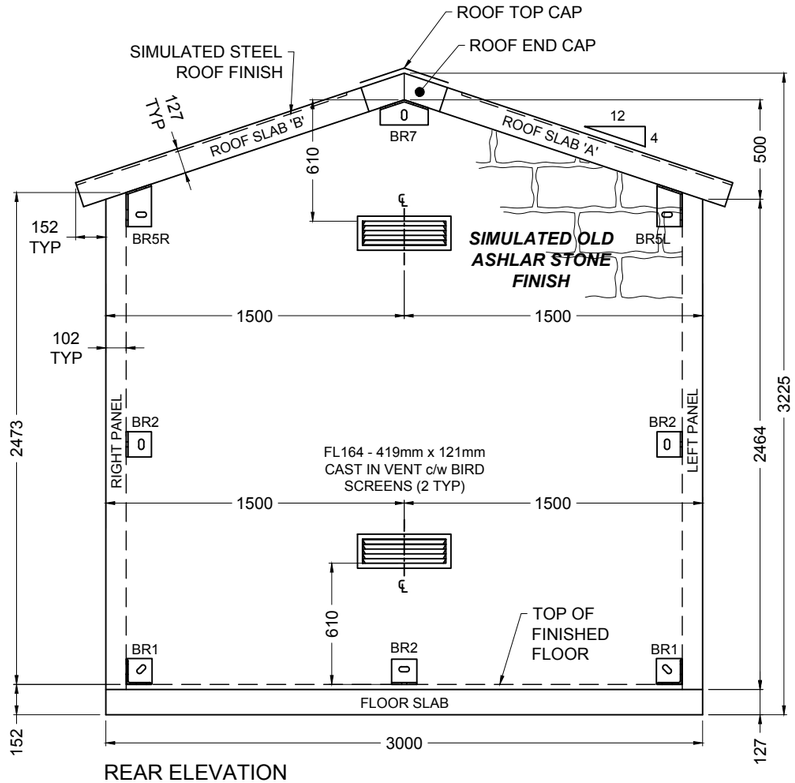
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St.Catharines,ON, L2R 6P7
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Fax: 905-684-8560
www.hygradeprecast.com

HY-GRADE



FRONT ELEVATION

EXTERIOR VIEW



REAR ELEVATION

EXTERIOR VIEW

REV.	DESCRIPTION	ENG.	DATE
0	ISSUED FOR APPROVAL	SS	SEPT 11 2018

PRODUCTION NOTES

SPECIFICATION

CONCRETE	CURING	MIX	AIR ENT.	CEMENT TYPE
	MIN DESIGN STRENGTH		MIN STRIPPING STRENGTH	
REBAR	YIELD	PRIMARY COVER	2ND COVER	
WWF	YIELD	COVER		
STEEL	YIELD			
STRUCTURAL STEEL	YIELD			
CONCRETE VOLUME			SCALE & UNIT	N.T.S. / mm OR UNLESS SPEC.
WEIGHT	FRONT PANEL: 3 332 LBS + DOOR (145 LBS) = 3 477 LBS REAR PANEL: 4 382 LBS			

TITLE

FRONT & REAR ELEVATIONS

PROJECT INFORMATION

JOB NO. **18-3722** CONTRACT NO. PM

CUSTOMER

PROJECT NHS PARKING LOT 3000 X 2400 X 2439 ID (4-12 PITCH)

DESIGNER INFORMATION

BY

TITLE

REF ID

REV	DATE
0	
1	
2	

ENGINEER

DRAFTED BY KB

CHECKED BY

QUALITY CONTROL

PROJ. CONF. ☐

MFG. CONF. ☐

VIEWS ☐

MASS ☐

DIMENSION ☐

HARDWARE ☐

LIFTING ☐

REINF. ☐

SHEET **B-1**

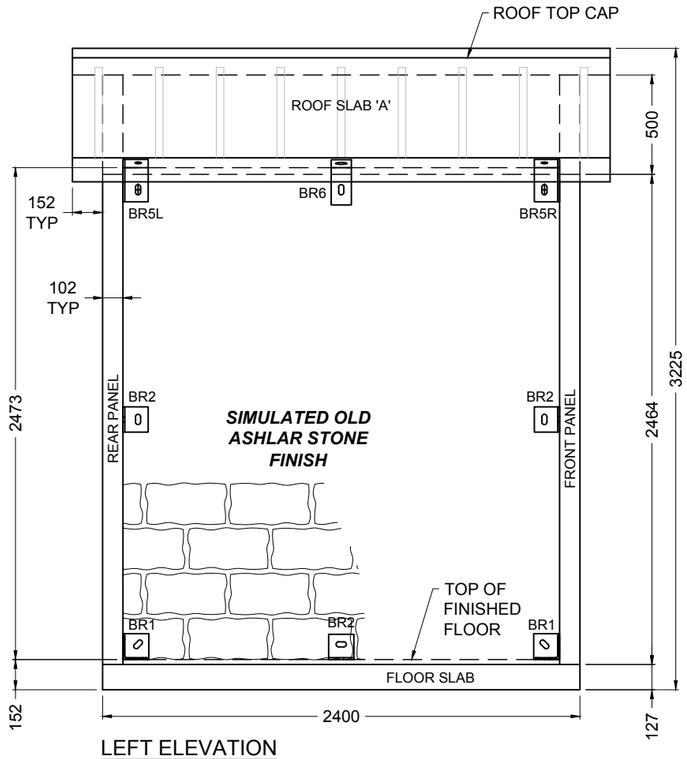
REV

ENGINEER STAMPS

LICENSED PROFESSIONAL ENGINEER
V. V. SAFONOV
100088334
Sep. 12, 2018
PROVINCE OF ONTARIO

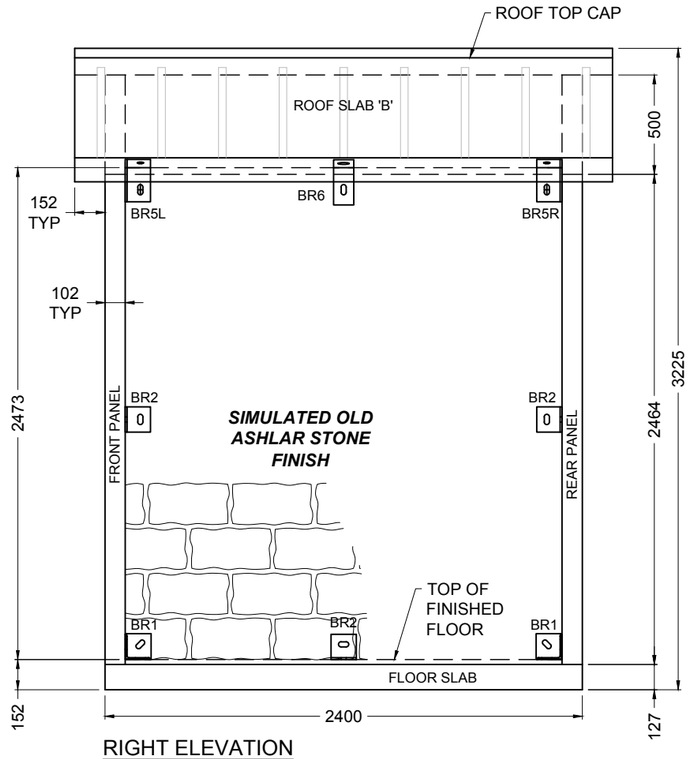
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HY-GRADE PRECAST CONCRETE



LEFT ELEVATION

EXTERIOR VIEW



RIGHT ELEVATION

EXTERIOR VIEW

REV.	DESCRIPTION	ENG.	DATE
0	ISSUED FOR APPROVAL	SS	SEPT 11 2018

PRODUCTION NOTES

SPECIFICATION

CONCRETE	CURING	MIX	AIR ENT.	CEMENT TYPE
	MIN. DESIGN STRENGTH		MIN. STRIPPING STRENGTH	
REBAR	YIELD	PRIMARY COVER	2ND COVER	
WWF	YIELD	COVER		
STEEL	YIELD			
STRUCTURAL STEEL	YIELD			
CONCRETE VOLUME			SCALE & UNIT	N.T.S. / mm OR UNLESS SPEC.
WEIGHT	LEFT PANEL: 2 933 LBS RIGHT PANEL: 2 933 LBS			

TITLE

LEFT & RIGHT ELEVATIONS

PROJECT INFORMATION

JOB NO. **18-3722** CONTRACT NO. PM

CUSTOMER

PROJECT NHS PARKING LOT 3000 X 2400 X 2439 ID (4-12 PITCH)

DESIGNER INFORMATION

BY

TITLE

REF ID

REV	DATE
0	
1	
2	

ENGINEER

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QUALITY CONTROL

PROJ. CONF. ☐

MFG. CONF. ☐

VIEWS ☐

MASS ☐

DIMENSION ☐

HARDWARE ☐

LIFTING ☐

REINF. ☐

SHEET **B-2**

REV

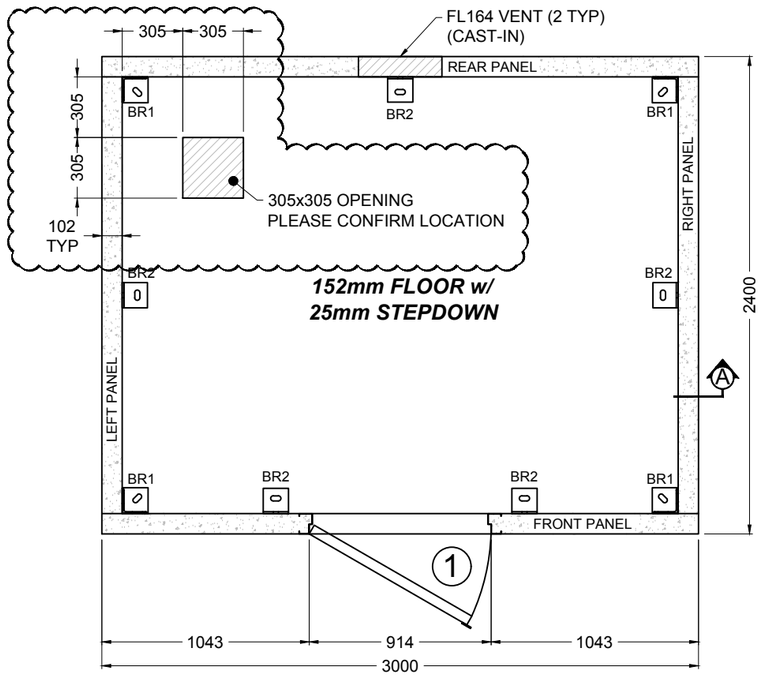
ENGINEER STAMPS

LICENSED PROFESSIONAL ENGINEER
V. V. SAFONOV
100088334
Sep. 12, 2018
PROVINCE OF ONTARIO

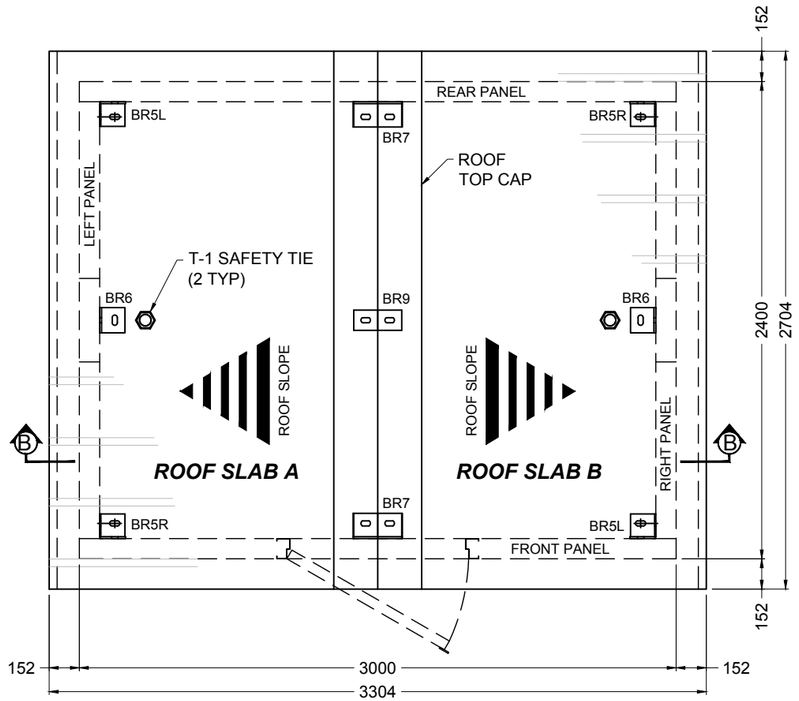
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HY-GRADE PRECAST CONCRETE

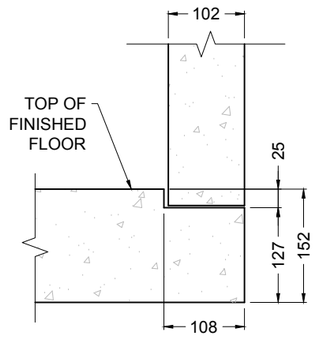
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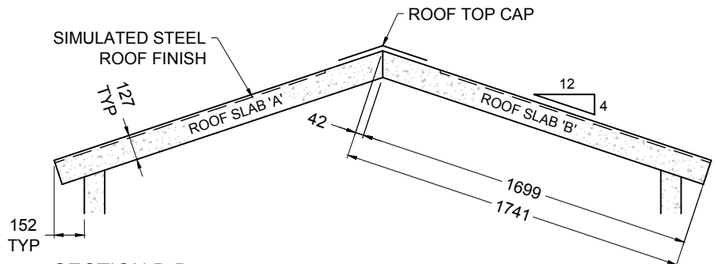
FLOOR PLAN
PLAN VIEW



ROOF PLAN
PLAN VIEW



SECTION A
STEPDOWN DETAIL



SECTION B-B
ROOF SECTION

REV.	DESCRIPTION	ENG.	DATE
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PRODUCTION NOTES

SPECIAL REQUIREMENTS

SPECIFICATION

CONCRETE	CURING	MIX	AIR ENT.	CEMENT TYPE
	MIN. DESIGN STRENGTH		MIN. STRIPPING STRENGTH	
REBAR	YIELD	PRIMARY COVER	2ND COVER	
WWF	YIELD	COVER		
STEEL	YIELD			
STRUCTURAL STEEL	YIELD			
CONCRETE VOLUME			SCALE & UNIT	N.T.S. / mm OR UNLESS SPEC.
WEIGHT	FLOOR SLAB: 5 813 LBS ROOF SLAB 'A': 3 130 LBS ROOF SLAB 'B': 3 130 LBS			

TITLE

FLOOR & ROOF PLANS

PROJECT INFORMATION

JOB NO. **18-3722** CONTRACT NO. PM

CUSTOMER

PROJECT NHS PARKING LOT 3000 X 2400 X 2439 ID (4-12 PITCH)

DESIGNER INFORMATION

BY

TITLE

REF ID

REV	DATE
0	
1	
2	

ENGINEER

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MASS ☐
DIMENSION ☐
HARDWARE ☐
LIFTING ☐
REINF. ☐

SHEET **B-3**

REV

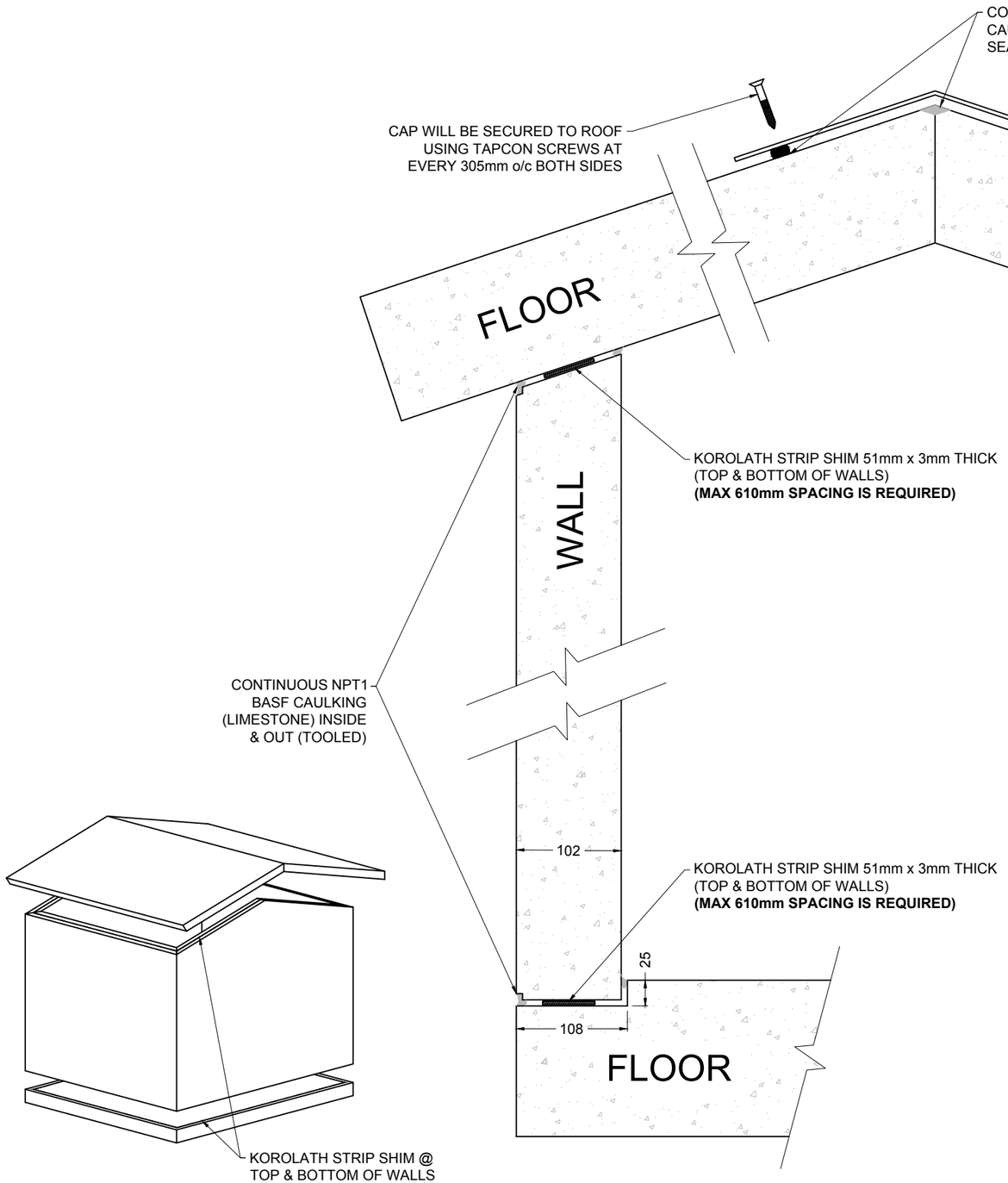
ENGINEER STAMPS

LICENSED PROFESSIONAL ENGINEER
V. V. SAFONOV
100088334
Sep. 12, 2018
PROVINCE OF ONTARIO

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SLAB TO WALL & WALL TO ROOF SEALING DETAIL



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PRODUCTION NOTES

SPECIFICATION

CONCRETE	CURING	MIX	AIR ENT.	CEMENT TYPE
	MIN DESIGN STRENGTH		MIN STRIPPING STRENGTH	
REBAR	YIELD	PRIMARY COVER	2ND COVER	
WWF	YIELD	COVER		
STEEL	YIELD			
STRUCTURAL STEEL	YIELD			
CONCRETE VOLUME		SCALE & UNIT	N.T.S. / mm OR UNLESS SPEC.	
WEIGHT				

TITLE

SEALANT DETAILS

PROJECT INFORMATION

JOB NO. **18-3722** CONTRACT NO. PM

CUSTOMER

PROJECT NHS PARKING LOT 3000 X 2400 X 2439 ID (4-12 PITCH)

DESIGNER INFORMATION

BY

TITLE

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1	
2	

ENGINEER

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MFG. CONF. ☐
VIEWS ☐
MASS ☐
DIMENSION ☐
HARDWARE ☐
LIFTING ☐
REINF. ☐

SHEET **A-1**

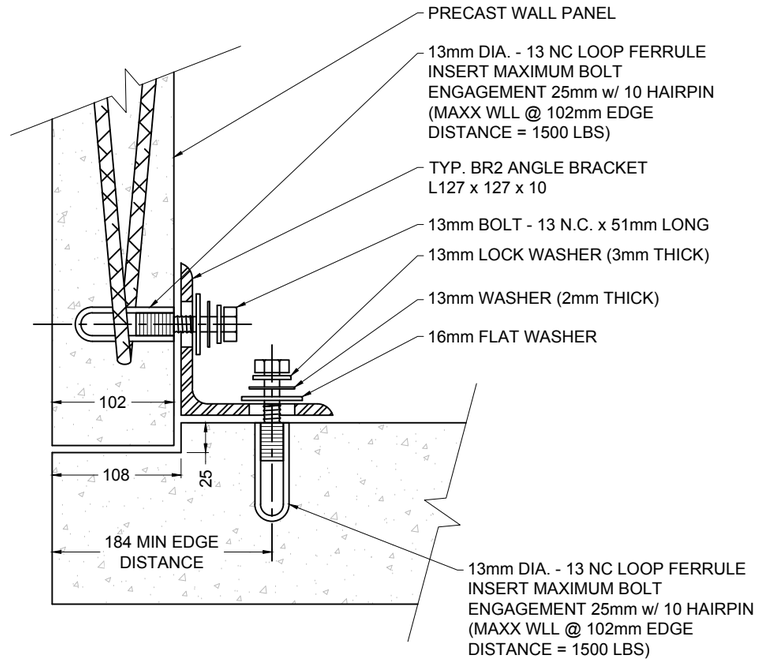
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HY-GRADE PRECAST CONCRETE

TYP. BOLTED CONNECTION DETAIL
WALL TO FLOOR



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.

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PRODUCTION NOTES

SPECIFICATION

CONCRETE	CURING	MIX	AIR ENT.	CEMENT TYPE
	MIN. DESIGN STRENGTH		MIN. STRIPPING STRENGTH	
REBAR	YIELD	PRIMARY COVER	2ND COVER	
WWF	YIELD	COVER		
STEEL	YIELD			
STRUCTURAL STEEL	YIELD			
CONCRETE VOLUME		SCALE & UNIT	N.T.S. / mm OR UNLESS SPEC.	
WEIGHT				

TITLE

CONNECTION DETAILS

PROJECT INFORMATION

JOB NO. **18-3722** CONTRACT NO. PM

CUSTOMER

PROJECT NHS PARKING LOT 3000 X 2400 X 2439 ID (4-12 PITCH)

DESIGNER INFORMATION

BY

TITLE

REF ID

REV	DATE
0	
1	
2	

ENGINEER

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MFG. CONF. ☐
VIEWS ☐
MASS ☐
DIMENSION ☐
HARDWARE ☐
LIFTING ☐
REINF. ☐

SHEET **A-2**

REV

ENGINEER STAMPS

LICENSED PROFESSIONAL ENGINEER
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PROVINCE OF ONTARIO
Sep. 12, 2018

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HY-GRADE

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SUGGESTED MINIMUM SITE PREPARATION NOTES

*** FINAL PROJECT SITE DESIGN AND SITE PREPARATION IS BY CUSTOMER.**
*** THIS PAGE IS ONLY A RECOMMENDATION.**

1. GRANULAR PAD SHOULD BE AT MINIMUM OF 610mm WIDER AND 610mm LONGER THAN THE BUILDING, WITH 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.

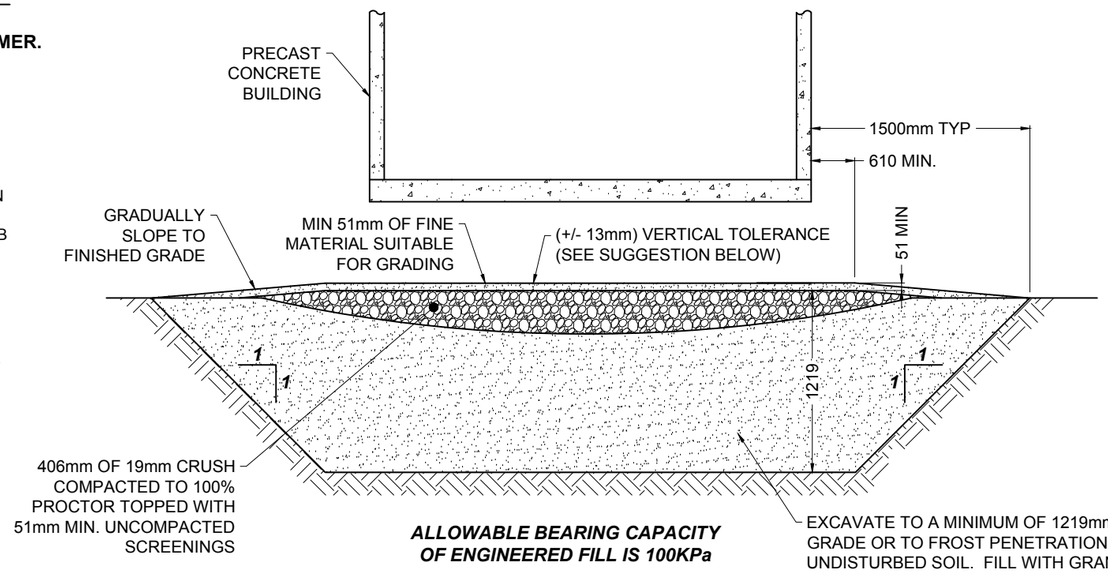
3. ENSURE THAT THE GRANULAR SUBBASE AND THE AREA SURROUNDING THE BUILDING ARE WELL DRAINED BY POSITIVE SLOPE OF SUBGRADE OR BY UNDERFLOOR DRAINAGE PIPES. ENSURE ALL FINISHED SURFACES ADJACENT TO THE BUILDING SLOPE AWAY FROM THE BUILDING PERIMETER.

4. IF SOIL IS DISTURBED, EXCAVATION MUST BE LOWER THAN THE DISTURBED LEVEL AS PER GEOTECHNICAL REVIEW.

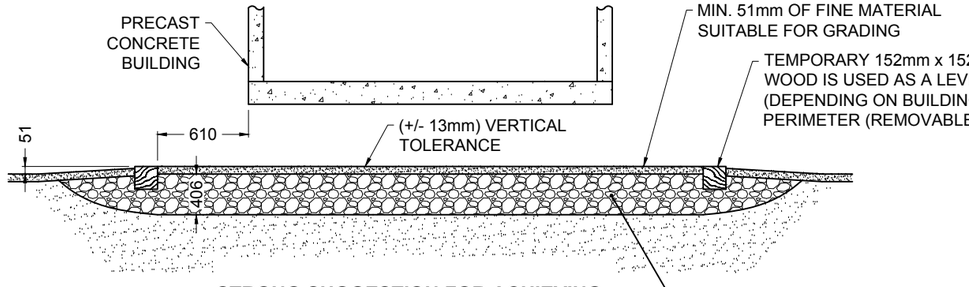
HY-GRADE PRECAST WILL NOT BE RESPONSIBLE FOR ANY DAMAGE OR DELAYS CAUSED BY POOR OR UN-FINISHED SITE PREPARATION.

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 IT'S 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.



ALLOWABLE BEARING CAPACITY OF ENGINEERED FILL IS 100KPa



STRONG SUGGESTION FOR ACHIEVING
(+/- 1/2") VERTICAL TOLERANCE

REV.	DESCRIPTION	ENG.	DATE
0	ISSUED FOR APPROVAL	SS	SEPT 11 2018

PRODUCTION NOTES

SPECIAL REQUIREMENTS

SPECIFICATION

CONCRETE	CURING	MIX	AIR ENT.	CEMENT TYPE
	MIN DESIGN STRENGTH		MIN STRIPPING STRENGTH	
REBAR	YIELD	PRIMARY COVER		2ND COVER
WWF	YIELD	COVER		
STEEL	YIELD			
STRUCTURAL STEEL	YIELD			
CONCRETE VOLUME			SCALE & UNIT	N.T.S. / mm OR UNLESS SPEC.
WEIGHT				

TITLE

SITE PREPARATION

PROJECT INFORMATION

JOB NO. **18-3722** CONTRACT NO. PM

CUSTOMER

PROJECT NHS PARKING LOT 3000 X 2400 X 2439 ID (4-12 PITCH)

DESIGNER INFORMATION

BY

TITLE

REF ID

REV	DATE
0	
1	
2	

ENGINEER

DRAFTED BY KB

CHECKED BY

QUALITY CONTROL
PROJ. CONF. ☐
MFG. CONF. ☐
VIEWS ☐
MASS ☐
DIMENSION ☐
HARDWARE ☐
LIFTING ☐
REINF. ☐

SHEET **S-1**

REV

ENGINEER STAMPS

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HY-GRADE PRECAST CONCRETE

DOOR #1

VENDOR:
REGIONAL DOORS & HARDWARE

P.O. #:

DOOR FRAME DATE REQ'D:_____

QTY.	SIZE	GAUGE	OUT-SIDE SWING
1	914 x 2134	16	RIGHT HAND

** EMA PREP FRAME **

DOORS DATE REQ'D:_____

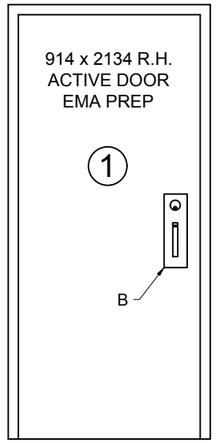
MARK	QTY.	SIZE	GAUGE	OUT-SIDE SWING	INTERIOR	ASTRAGAL	HINGE-PREP	OPENING PREP
1	1	914 x 2134	18	RIGHT HAND	STEEL STIFFENED W/ WELDED SEAMS	FLAT	TYP 3/DOOR	NONE

* USE STOCK MATERIAL

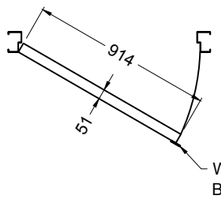
HARDWARE DATE REQ'D:_____

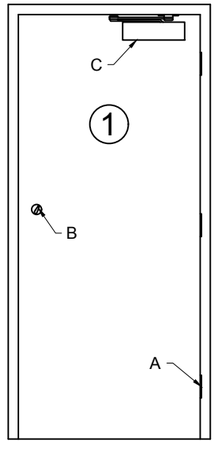
QTY.	DESCRIPTION
1	'A' HINGE SET - TYP. 3/DOOR (TAYMOR 4100, NRP, BB, BUTT HINGE, 114mm x 102mm, STAINLESS STEEL)
1	'B' LOCK SET - DOREX TLA51 32D - STANDARD SCHLAGE "C" w/ 178mm DOOR PULL & 102mm x 406mm PLATE
1	'C' DOOR CLOSER MODEL 4111 H CUSH HOLD OPEN
1	'D' THRESHOLD - CT-804 TYP. (KN CROWDER) x 914mm LONG
1	'E' WEATHER STRIP - TYP. (KN CROWDER W-29) x 5182mm LONG
1	'F' SWEEP - TYP. (KN CROWDER W-13S-2) x 914mm LONG - *CUT TO LENGTH BY HY-GRADE*
1	'G' DRIP CAP TYP. (KN CROWDER W-3) 1016mm LONG

REFER TO PAGE D-2 FOR DETAILS

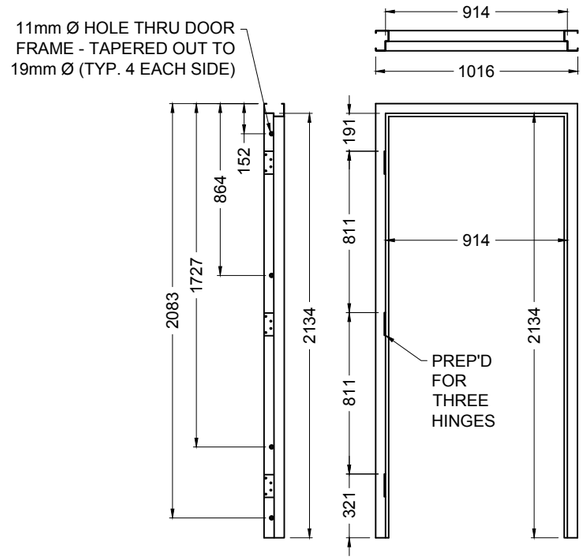


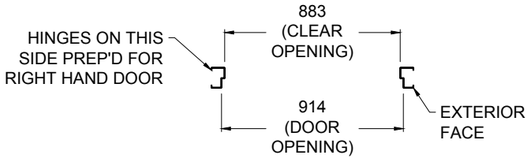
OUTSIDE SWING

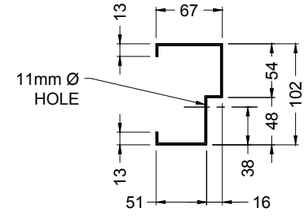




INTERIOR VIEW







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

REV.	DESCRIPTION	ENG.	DATE
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PRODUCTION NOTES

SPECIAL REQUIREMENTS

SPECIFICATION

CONCRETE	CURING	MIX	AIR ENT.	CEMENT TYPE
	MIN DESIGN STRENGTH		MIN STRIPPING STRENGTH	
REBAR	YIELD	PRIMARY COVER	2ND COVER	
WWF	YIELD	COVER		
STEEL	YIELD			
STRUCTURAL STEEL	YIELD			
CONCRETE VOLUME			SCALE & UNIT	N.T.S. / mm OR UNLESS SPEC.
WEIGHT				

TITLE

DOOR 1 DETAILS

PROJECT INFORMATION

JOB NO. **18-3722** CONTRACT NO. PM

CUSTOMER

PROJECT NHS PARKING LOT 3000 X 2400 X 2439 ID (4-12 PITCH)

DESIGNER INFORMATION

BY

TITLE

REF ID

REV	DATE
0	
1	
2	

ENGINEER

DRAFTED BY KB

CHECKED BY

QUALITY CONTROL
PROJ. CONF. ☐
MFG. CONF. ☐
VIEWS ☐
MASS ☐
DIMENSION ☐
HARDWARE ☐
LIFTING ☐
REINF. ☐

SHEET **D-1**

REV

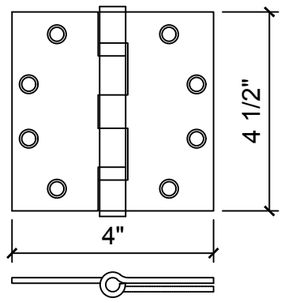
ENGINEER STAMPS

2411 First Street Louth,
St.Catharines,ON, L2R 6P7
Tel: 905-684-8568
Fax: 905-684-8560
www.hygradeprecast.com
HY-GRADE

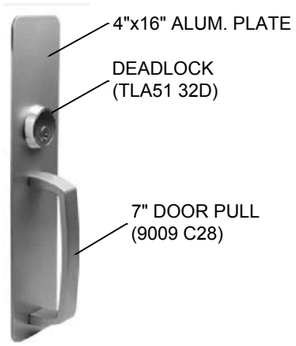
I:\autocad\Files\Buildings\2018\18-3722 2400x3000 NHS Parking Lot\18-3722 NHS Parking Lot 3000 X 2400 X 2439 ID (4-12 Pitch).dwg

A — HINGES - TAYMOR 4100 SERIES

COMMERCIAL 4½" x 4" TEMPLATE BUTT HINGES
MODEL: 25-4173DC
NON-REMOVABLE PIN; BALL BEARING
FINISH: STAINLESS STEEL
MEETS BHMA/ANSI - A156.1 GRADE 2



B — LOCKSET ASSEMBLY



DEADLOCK - DOREX TLA SERIES

MODEL TLA 51 - SINGLE CYLINDER DEADLOCK
WITH INTERIOR THUMBTURN
FINISH: C32D (STAINLESS STEEL)

KEYWAY: STANDARD SCLAGE "C"; SOLID BRASS, REINFORCED WITH HARDENED STEEL SECURITY ROLLER; CONFORMS TO ANSI A156.6 GRADE 2; 3 HOUR cUL FIRE RATING.

DOREX TLA SERIES



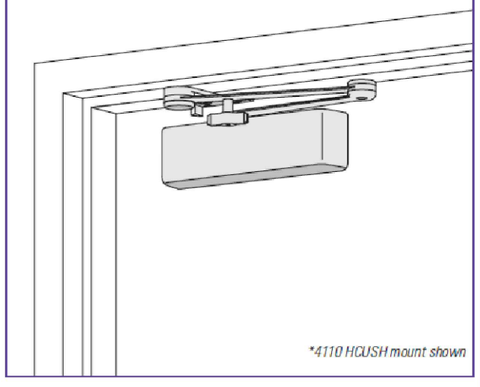
C — DOOR CLOSER - LCN 4111 SERIES

LCN 4111 H-CUSH x AL

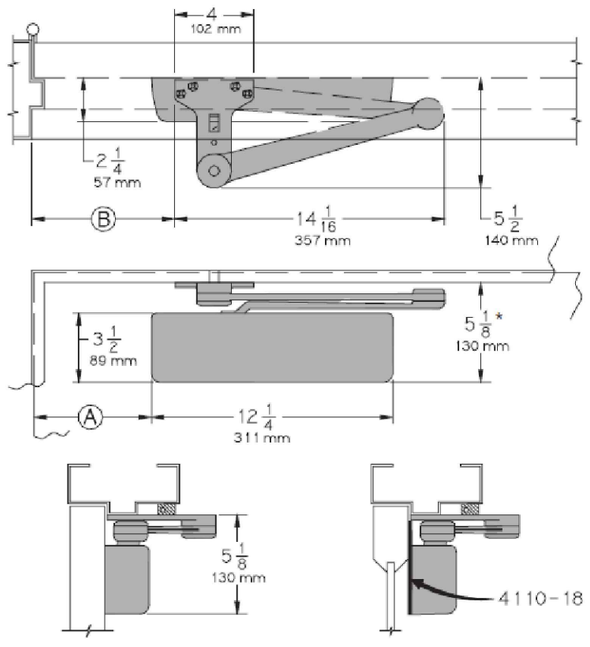
LCN®

Standard powder coat finish 689.
UL and cUL listed for self-closing doors without holdopen.
Tested and certified under ANSI Standard A156.4, grade one.

***PARALLEL ARM (PUSH SIDE) MOUNT**



**4110 HCUSH mount shown*

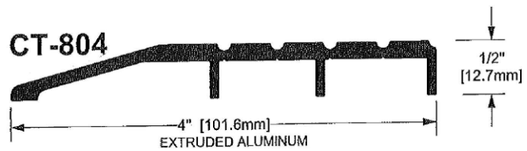


**5 11/16" (144 mm) For Fusible Link Arm applications*

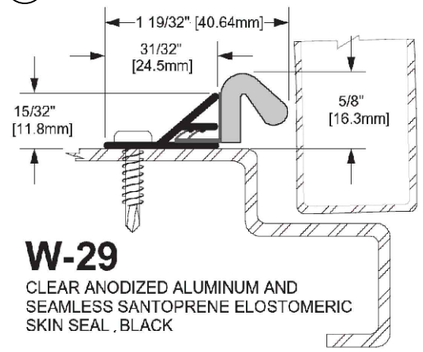


The 4111 includes the
LCN® FAST™ Power Adjust,
a revolutionary visual indicator for Spring Power Adjustment.

D — THRESHOLD

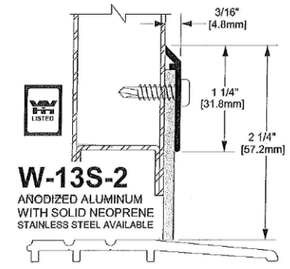


E — WEATHERSTRIPPING



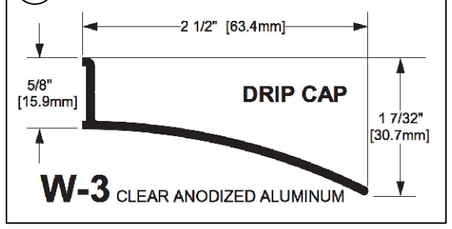
W-29
CLEAR ANODIZED ALUMINUM AND SEAMLESS SANTOPRENE ELOSTOMERIC SKIN SEAL , BLACK

F — SWEEP



W-13S-2
ANODIZED ALUMINUM WITH SOLID NEOPRENE STAINLESS STEEL AVAILABLE

G — DRIP CAP



W-3 CLEAR ANODIZED ALUMINUM

REV.	DESCRIPTION	ENG.	DATE
0	ISSUED FOR APPROVAL	SS	SEPT 11 2018

PRODUCTION NOTES

SPECIAL REQUIREMENTS

SPECIFICATION

CONCRETE	CURING	MIX	AIR ENT.	CEMENT TYPE
	MIN. DESIGN STRENGTH		MIN STRIPPING STRENGTH	
REBAR	YIELD	PRIMARY COVER		2ND COVER
WWF	YIELD	COVER		
STEEL	YIELD			
STRUCTURAL STEEL	YIELD			
CONCRETE VOLUME			SCALE & UNIT	N.T.S. / mm OR UNLESS SPEC.
WEIGHT				

TITLE

DOOR HARDWARE

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SHEET **D-2**

REV

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HY-GRADE PRECAST CONCRETE

FINISHES

EXTERIOR: ***PLEASE SPECIFY***



SIMULATED OLD
ASHLAR STONE

INTERIOR: SMOOTH CONCRETE



PAINT COLOURS

SAMPLE STOCK COLOURS



SPECIAL GREY (HY-GRADE LIGHT GREY)
ANSI GREY (HY-GRADE DARK GREY)
RELIABLE TAN (HY-GRADE TAN)
MAPLE BROWN (HY-GRADE BROWN)
SPICED CIDER (HY-GRADE CIDER)



COLONIAL WHITE (HY-GRADE WHITE)
FOREST GREEN (HY-GRADE GREEN)
CONSUMER BLUE (HY-GRADE BLUE)
AUTUMN RIDGE RED (HY-GRADE RED)

DOOR & FRAMES: ***PLEASE SPECIFY***

EXTERIOR WALLS: SIMULATED OLD STONE ASHLAR

INTERIOR WALLS: NOT PAINTED

FLOOR: NOT PAINTED

ROOF: ***PLEASE SPECIFY***

FLOOR EDGE: SW H&C STAIN - SPECIAL GREY
(HY-GRADE LIGHT GREY)

REV.	DESCRIPTION	ENG.	DATE
0	ISSUED FOR APPROVAL	SS	SEPT 11 2018

PRODUCTION NOTES

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STRUCTURAL STEEL	YIELD			
CONCRETE VOLUME		SCALE & UNIT	N.T.S. / mm OR UNLESS SPEC.	
WEIGHT				

TITLE

FINISHES

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SHEET **F-1**

REV

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