



APPENDICES

November 2021

AIR CURTAIN



For Mounting Heights To 16' (environmental separation)

STANDARD CONSTRUCTION

- 15" high x 26" deep
- 1 hp two speed motor(s)
- Factory installed Intelliswitch digital controller
- White aluminum exterior panel
(Optional: Color or Stainless)
- Top Mounting only
- High efficiency, low noise Pro-V Nozzle
- Patented venturi open helical element with point suspension
- Alternate kW: see sheet EP-252
- Filter (washable)
- Optional: Wi-Fi Controller, works with Berner App (UL listing pending)

**2 Year
Limited
Warranty**



indoor use

MODEL	Nozzle Width (in)	Max Vel. at Nozzle (fpm)	Avg. Outlet Vel. (fpm)	Air Volume (cfm)	Outlet Vel. Uniformity	Power Rating (kW)	Motor(s) @ hp	Max Electric Capacity (kW)	Heater Output (MBH)	Air Temp. Rise (°F)	Net Wt. (lbs)
ARC16-1036E	36.00	6,250	2,368	2,072	90%	0.91	1 @ 1	14.0	47.8	21°	108
ARC16-1042E	42.00	5,594	2,208	2,254	88%	0.96	1 @ 1	14.0	47.8	20°	115
ARC16-1048E	48.00	5,627	2,015	2,351	77%	1.09	1 @ 1	14.0	47.8	19°	121
ARC16-1060E	66.00	5,401	1,502	2,410	73%	1.12	1 @ 1	14.0	47.8	18°	141
ARC16-2060E	66.00	4,440	2,446	3,924	92%	1.79	2 @ 1	28.0	95.6	22°	185
ARC16-2072E	72.00	6,250	2,368	4,144	90%	1.82	2 @ 1	28.0	95.6	21°	195
ARC16-2084E	84.00	5,594	2,208	4,508	88%	1.92	2 @ 1	28.0	95.6	20°	208
ARC16-2096E	99.00	5,627	1,954	4,702	77%	2.18	2 @ 1	28.0	95.6	19°	219
ARC16-3096E	99.00	6,250	2,492	5,996	90%	2.70	3 @ 1	42.0	143.3	22°	265
ARC16-2108E	108.00	5,401	1,814	4,761	73%	2.21	2 @ 1	28.0	95.6	19°	237
ARC16-3108E	108.00	6,250	2,368	6,216	90%	2.73	3 @ 1	42.0	143.3	21°	293
ARC16-2120E	117.00	5,401	1,695	4,820	73%	2.24	2 @ 1	28.0	95.6	18°	255
ARC16-3120E	117.00	5,594	2,314	6,580	88%	2.83	3 @ 1	42.0	143.3	20°	305
ARC16-3132E	132.00	5,627	2,138	6,859	77%	3.01	3 @ 1	42.0	143.3	19°	317
ARC16-3144E	144.00	5,627	2,015	7,053	77%	3.27	3 @ 1	42.0	143.3	19°	328
ARC16-4144E	144.00	6,250	2,368	8,288	90%	3.64	4 @ 1	56.0	191.1	21°	390

NOTES:

1. Operation at 50 Hz will generate approximately a 17% reduction in air performance.
2. Performance data based on AMCA licensed data from unheated units.
3. Single Point Power Connection – consult factory

Berner does not recommend ARC16-1060E, ARC16-2108E and ARC16-2120E, exists only as an equivalent to competitors' models.

See sheet EP-252 for amp draws/total load requirements and alternate kW.

MODEL NUMBER CONFIGURATION

ARC16-1 036 E B-140 -R-WCA-SS

Series	# of Motors	Opening Width	Heat	Voltage	kW	Opt. Display	Opt. Control	Opt. Cabinet Finish
ARC16	1, 2, 3, 4	036" - 144"	E=Electric Heated	*B=208/1/60 *J=240/1/60 *V=220/1/50 X=208/3/60 Y=240/3/60 Z=480/3/60 Q=600/3/60 O=380/3/50 *Max 16kW See sheet EP-252 for available lengths and voltages	14.0 - 56.0 (140 - 560) See sheet EP-252 for alternate kW code	R=Remote Display Intelliswitch	WCA=Wi-Fi Controller Berner App	SS=Stainless Steel CC=Custom Color

for Standard offering, leave options (Opt.) blank

Sound level measured 10' (3m) from the unit in free field:

1 motor:	Min./Max. Speed:	62/65 dBA
2 motors:	Min./Max. Speed:	65/68 dBA
3 motors:	Min./Max. Speed:	67/70 dBA
4 motors:	Min./Max. Speed:	68/71 dBA

Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.



ARCHITECTURAL RECESSED 16

Electric Heated Air Curtain

Electrical Performance Sheet

MODEL	kW (suffix)	Temp Rise °F	208/1/60 (voltage code B) MOTOR AMP DRAW = 6.5 each			240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 6.5 each			208/3/60 (voltage code X) MOTOR AMP DRAW = 6.5 each			240/3/60 (voltage code Y) MOTOR AMP DRAW = 6.5 each		
			# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT
ARC16-1036E ARC16-1042E ARC16-1048E ARC16-1060E	14 (140)	20	2	29.0/44.9	40/60	2	26.0/38.9	35/50	1	45.4	60	1	40.2	60
	10 (100)	14	2	22.5/32.0	30/40	1	48.2	60	1	34.3	45	1	30.6	40
	8 (080)	11	1	45.0	60	1	39.8	50	1	28.7	40	1	25.7	35
	6 (060)	8	1	35.3	45	1	31.5	40	1	23.2	30	1	20.9	30
ARC16-2060E ARC16-2072E ARC16-2084E ARC16-2096E ARC16-2108E ARC16-2120E	28 (280)	20	-	N/A	N/A	-	N/A	N/A	2	51.9/38.9	60/50	2	46.7/33.7	60/45
	20 (200)	14	-	N/A	N/A	-	N/A	N/A	2	40.8/27.8	50/35	2	37.1/24.1	45/35
	16 (160)	11	2	51.5/38.5	60/50	2	46.3/33.3	60/45	2	35.2/22.2	45/30	1	51.5	60
	12 (120)	8	2	41.8/28.8	60/40	2	38.0/25.0	50/35	1	46.3	60	1	41.9	60
ARC16-3096E ARC16-3108E ARC16-3120E ARC16-3132E ARC16-3144E	42 (420)	20	-	N/A	N/A	-	N/A	N/A	3	45.4/45.4/45.4	60/60/60	3	46.7/40.2/33.7	60/60/45
	30 (300)	14	-	N/A	N/A	-	N/A	N/A	3	47.3/27.8/27.8	60/35/35	2	43.6/48.1	60/60
	24 (240)	11	-	N/A	N/A	-	N/A	N/A	2	41.7/44.4	50/60	2	38.7/38.5	50/50
	18 (180)	8	-	N/A	N/A	-	N/A	N/A	2	36.2/33.3	45/45	2	33.9/28.9	40/40
ARC16-4144E	56 (560)	20	-	N/A	N/A	-	N/A	N/A	4	51.9/38.9/51.9/38.9	60/50/60/50	4	46.7/33.7/46.7/33.7	60/45/60/45
	40 (400)	14	-	N/A	N/A	-	N/A	N/A	4	40.8/27.8/40.8/27.8	50/35/50/35	3	50.1/24.1/48.1	60/35/60
	32 (320)	11	-	N/A	N/A	-	N/A	N/A	3	35.2/35.2/44.4	45/45/60	2	51.5/51.5	60/60
	24 (240)	8	-	N/A	N/A	-	N/A	N/A	2	46.3/46.3	60/60	2	41.9/41.9	60/60



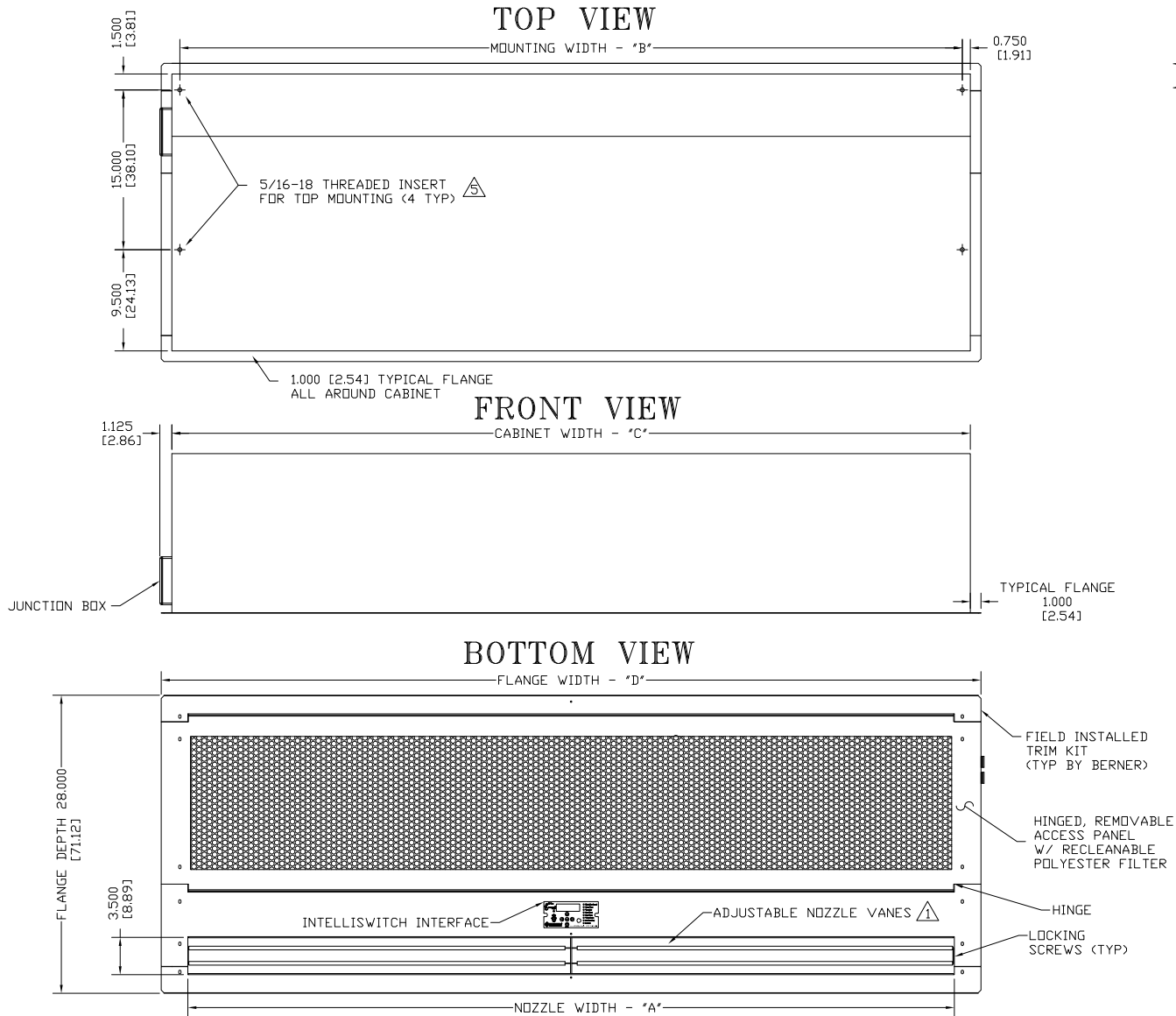
ARCHITECTURAL RECESSED 16

Electric Heated Air Curtain

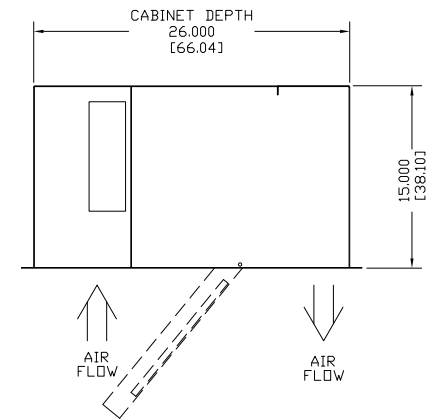
Electrical Performance Sheet

MODEL	kW (suffix)	Temp Rise °F	480/3/60 (voltage code Z) MOTOR AMP DRAW = 3.2 each			600/3/60 (voltage code Q) MOTOR AMP DRAW = 2.0 each			380/3/50 (voltage code O) MOTOR AMP DRAW = 6.5 each		
			# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT
ARC16-1036E ARC16-1042E ARC16-1048E ARC16-1060E	14 (140)	20	1	20.0	25	1	15.5	20	1	27.8	35
	10 (100)	14	1	15.2	20	1	11.6	15	1	21.7	30
	8 (080)	11	1	12.8	20	1	9.7	15	1	18.7	25
	6 (060)	8	1	10.4	15	1	7.8	15	1	15.6	20
ARC16-2060E ARC16-2072E ARC16-2084E ARC16-2096E ARC16-2108E ARC16-2120E	28 (280)	20	1	40.1	50	1	30.9	40	2	34.3/21.3	45/30
	20 (200)	14	1	30.5	40	1	23.2	30	1	43.4	60
	16 (160)	11	1	25.6	35	1	19.4	25	1	37.3	50
	12 (120)	8	1	20.8	30	1	15.5	20	1	31.2	40
ARC16-3096E ARC16-3108E ARC16-3120E ARC16-3132E ARC16-3144E	42 (420)	20	2	26.4/33.7	35/45	1	46.4	60	2	40.8/42.5	50/60
	30 (300)	14	1	45.7	60	1	34.9	45	2	34.7/30.4	45/40
	24 (240)	11	1	38.5	50	1	29.1	40	2	43.8/12.2	60/20
	18 (180)	8	1	31.3	40	1	23.3	30	1	46.8	60
ARC16-4144E	56 (560)	20	2	46.5/33.7	60/45	2	34.9/26.9	45/40	3	47.3/42.5/21.3	60/60/30
	40 (400)	14	2	36.9/24.1	45/35	1	46.5	60	2	41.2/45.6	50/60
	32 (320)	11	1	51.3	60	1	38.8	50	2	38.2/36.5	45/50
	24 (240)	8	1	41.7	50	1	31.1	40	2	44.2/18.2	60/25

ARC16 IN-CEILING MOUNT ELECTRIC HEATED



END VIEW



NOTES:

- ① AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF C.
- ② ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
- ③ FIELD VERIFY DIMENSIONS.
- ④ ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
- ⑤ ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- ⑥ LETTER "E" IN MODEL NUMBER DESIGNATES ELECTRIC HEATED UNIT.
- ⑦ DIMENSIONS IN INCHES [CENTIMETERS].

MODEL ⑦	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	CABINET WIDTH "C"	FLANGE WIDTH "D"	RECOMMENDED ROUGH OPENING DEPTH x WIDTH
ARC16-1036E	36.00 [91.44]	37.50 [95.25]	39.00 [99.06]	41.00 [104.14]	27.00 x 40.00 [68.58 x 101.60]
ARC16-1042E	42.00 [106.68]	43.50 [110.49]	45.00 [114.30]	47.00 [119.38]	27.00 x 46.00 [68.58 x 116.84]
ARC16-1048E	48.00 [121.92]	49.50 [125.73]	51.00 [129.54]	53.00 [134.62]	27.00 x 52.00 [68.58 x 132.08]
ARC16-1060E/2060E	66.00 [167.64]	67.50 [171.45]	69.00 [175.26]	71.00 [180.34]	27.00 x 70.00 [68.58 x 177.80]
ARC16-2072E	72.00 [182.88]	73.50 [186.69]	75.00 [190.50]	77.00 [195.58]	27.00 x 76.00 [68.58 x 193.04]
ARC16-2084E	84.00 [213.36]	85.50 [217.17]	87.00 [220.98]	89.00 [226.06]	27.00 x 88.00 [68.58 x 223.52]
ARC16-2096E/3096E	99.00 [251.46]	100.50 [255.27]	102.00 [259.08]	104.00 [264.16]	27.00 x 103.00 [68.58 x 261.62]
ARC16-2108E/3108E	108.00 [274.32]	109.50 [278.13]	111.00 [281.94]	113.00 [287.02]	27.00 x 112.00 [68.58 x 284.48]
ARC16-2120E/3120E	117.00 [297.18]	118.50 [300.99]	120.00 [304.80]	122.00 [309.88]	27.00 x 121.00 [68.58 x 307.34]
ARC16-3132E	132.00 [335.28]	133.50 [339.09]	135.00 [342.90]	137.00 [347.98]	27.00 x 136.00 [68.58 x 345.44]
ARC16-3144E/4144E	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]	149.00 [378.46]	27.00 x 148.00 [68.58 x 375.92]

PROJECT			
LOCATION			
ARCHITECT			
ENGINEER			REV. --
DWG. NO.	ARC16-ELE	TITLE:	BERNER
DATE	22SEPT14		MODEL ARC16 AIR CURTAIN
BY	S. Beil		ELECTRIC HEATED SYSTEM
REPLACES	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.	
BY	-		

AUTOMATIC DOOR SLIDERS



STANLEY

Access Technologies

DURA-GLIDE

3000

SERIES

SINGLE SLIDE WITH OPTIONAL TRANSOM

PROJECT INFORMATION

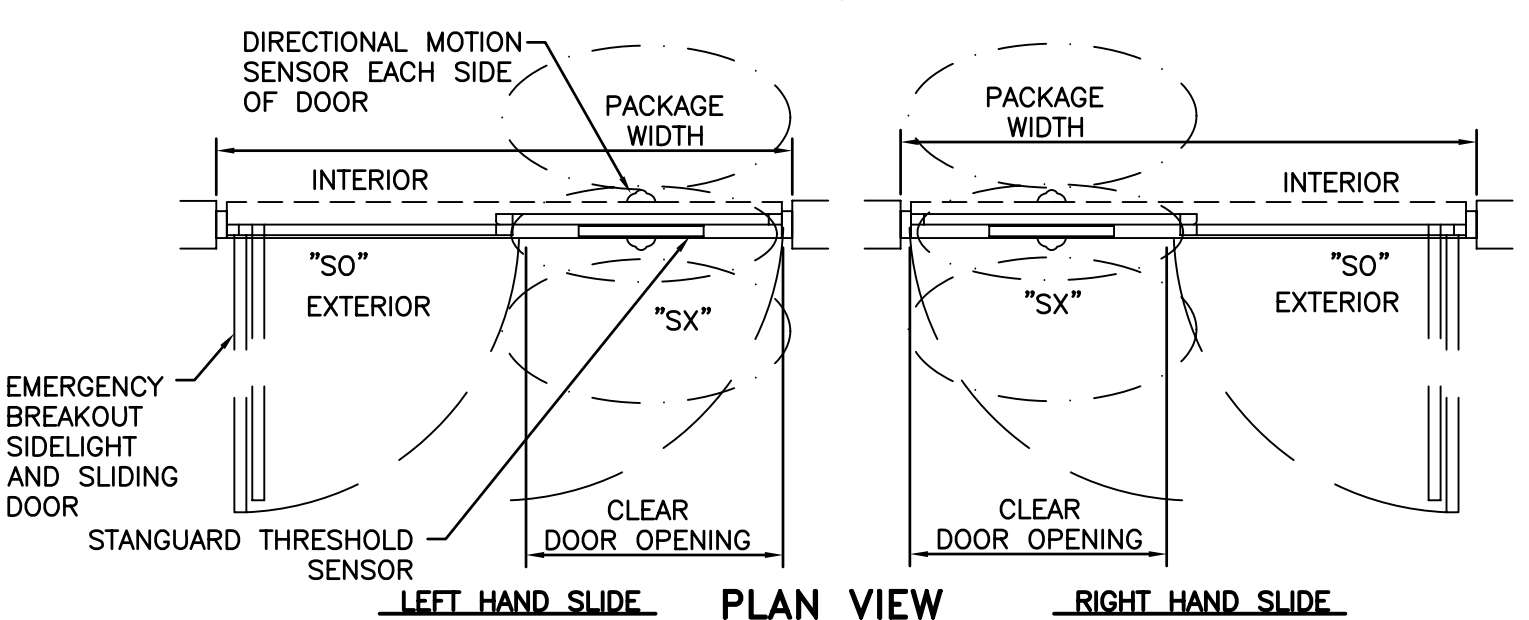
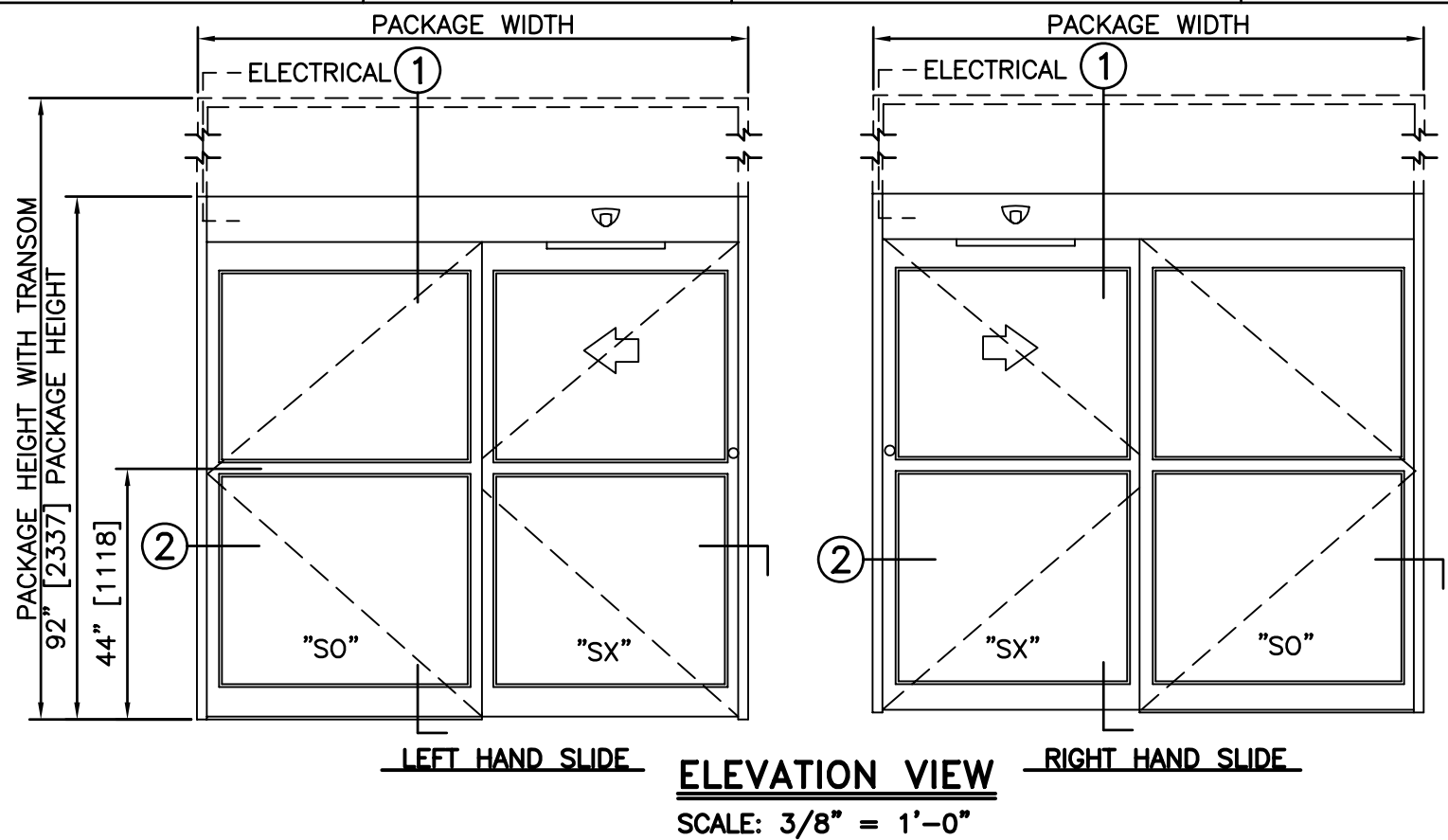
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LOCATION:

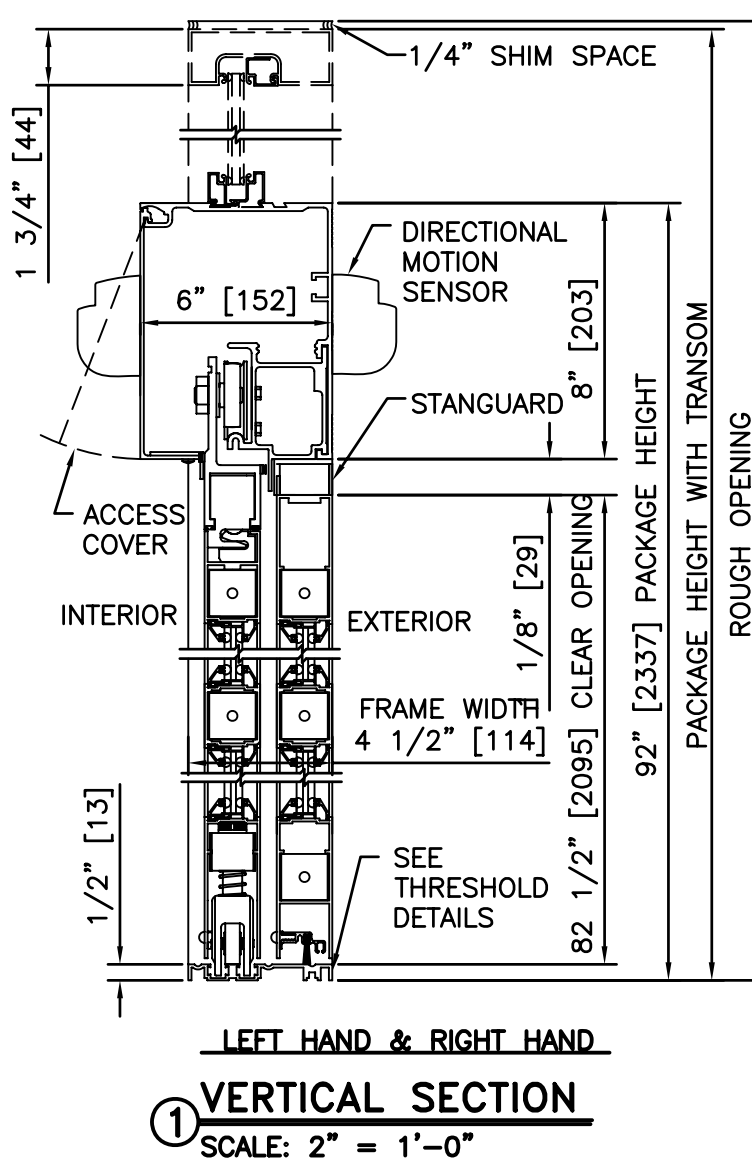
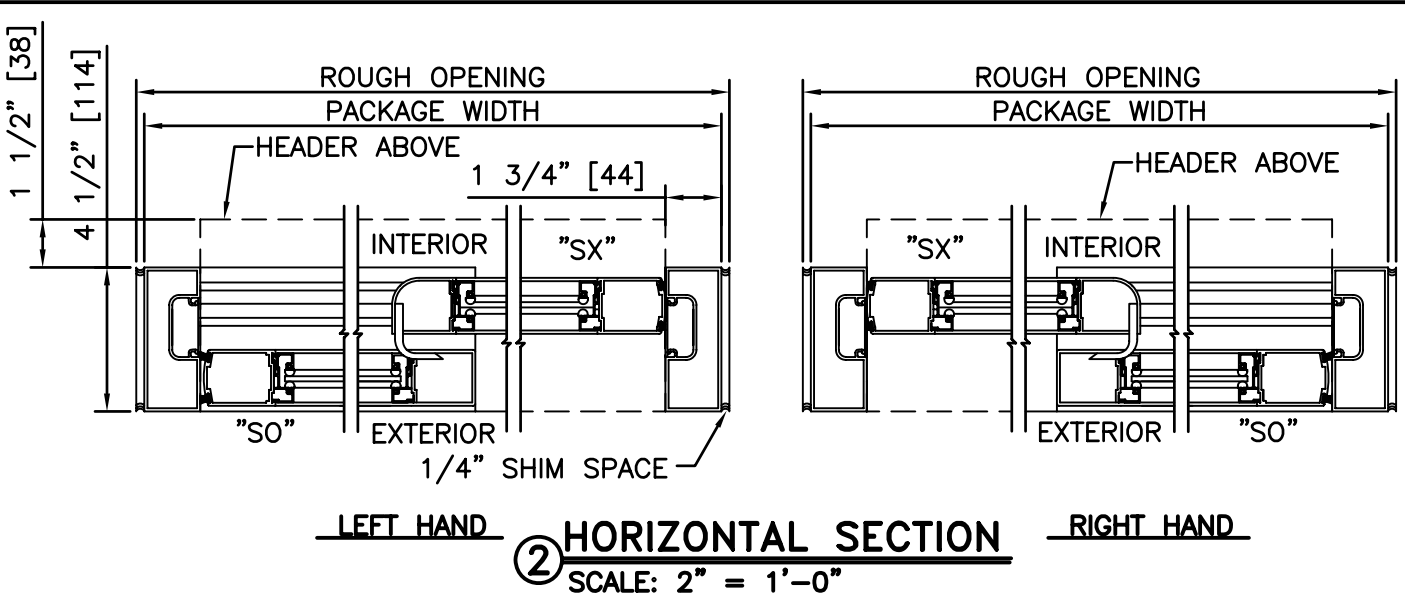
DOOR NUMBER(S):

DATE:

SHEET: OF



- NOTES**
- ELECTRICAL REQUIREMENTS: 120 VAC, 5 AMP MIN TO POWER OPERATOR BY ELECTRICAL CONTRACTOR.
 - ROUGH OPENING SHALL PROVIDE 1/4"[6] SHIM SPACE ON SIDES AND TOP OF PACKAGE.
 - LIMITS OF ACTIVATION AND SAFETY ZONES ARE FOR REFERENCE ONLY; SEE ANSI/BHMA A156.10 FOR DETAILED REQUIREMENTS.
 - STANDARD LOCKING IS 1-POINT, 2-POINT, 3-POINT AND ACCESS CONTROL SYSTEMS AVAILABLE. SEE SHEET 1.11.
 - STANDARD GLAZING STOPS FOR ALL PANELS ARE 1/4"[6]; 5/8"[16] AND 1"[25] AVAILABLE FOR SLIDING PANEL, 5/8"[16] AVAILABLE FOR SIDE LITE.
 - STANDARD JAMB TUBES SHOWN; 6"[152] AVAILABLE.
 - STANDARD STILES, BOTTOM RAILS AND MUNTINS SHOWN; MEDIUM STILES, BOTTOM RAILS TO 12"[305], AND 4 1/4"[108] MUNTINS AVAILABLE.
 - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



- PRODUCT OPTIONS**
- TRANSOM
☐ YES
☐ VERTICALS 1 2 3
- FINISH
☐ ANODIZED CLEAR CL2
☐ ANODIZED DK BRONZE
☐ CUSTOM
- LOCKING
☐ 1-POINT
☐ ACCESS CONTROL (PANIC)
☐ 2-POINT
☐ 3-POINT
- STILES
☐ NARROW
☐ MEDIUM
- BOTTOM RAILS
☐ STANDARD 4"
☐ OPTIONAL 6" 8" 10" 12"
- THRESHOLDS
☐ SQ/BVL (EXT)
☐ DBL BVL
☐ SQ/BVL (INT)
☐ RECESSED
- ACTIVATION/SAFETY
☐ 2 SU-100/STANGUARD
☐ 2 STANVISION
- OTHER OPTIONS
☐ UNINTERRUPTIBLE POWER SUPPLY
☐ FLY OPEN BOX
☐ WIND DAMPERS
☐ PANEL CLOSERS
☐ ALARM CONTACTS
☐ CLEAN ROOM (CL 1)
- SINGLE SLIDE FORMULAS - NARROW STILE**
PACKAGE WIDTH = 2 X CLEAR DOOR OPENING + 13.4"
CLEAR DOOR OPENING = 1/2 PACKAGE WIDTH - 6.7"
EMERGENCY BREAKOUT WIDTH = PACKAGE WIDTH - 9.0"
DOOR PANEL WIDTH = 1/2 PACKAGE WIDTH - 0.5"
- SINGLE SLIDE FORMULAS - MEDIUM STILE**
PACKAGE WIDTH = 2 X CLEAR DOOR OPENING + 17.8"
CLEAR DOOR OPENING = 1/2 PACKAGE WIDTH - 8.9"
EMERGENCY BREAKOUT WIDTH = PACKAGE WIDTH - 10.5"
DOOR PANEL WIDTH = 1/2 PACKAGE WIDTH + 0.2"

TYPICAL PACKAGE DIMENSIONS (NARROW STILE)			
PACKAGE WIDTH	NOMINAL CLEAR DOOR OPENING	DOOR PANEL NOMINAL WIDTH	EMERGENCY BREAKOUT NOM. WIDTH
84"	35.3"	41.5"	75.0"
96"	41.3"	47.5"	87.0"
108"	47.3"	53.5"	99.0"

DURA-GLIDE

3000

SERIES

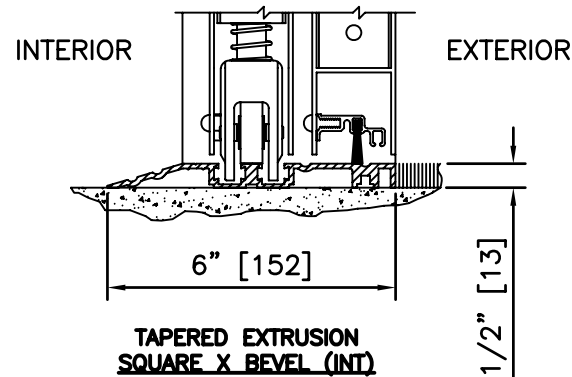
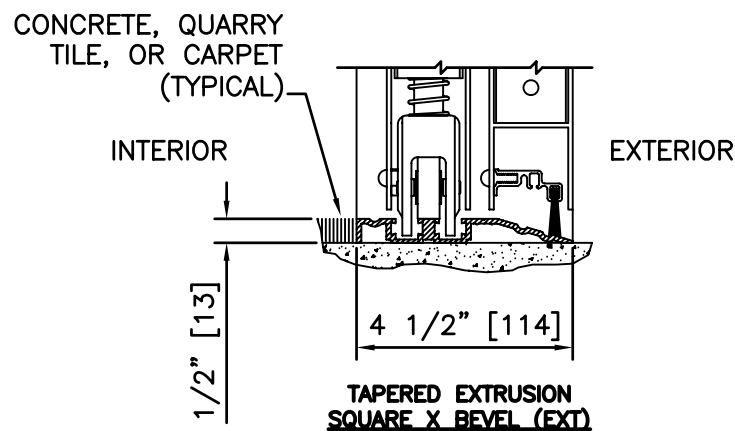
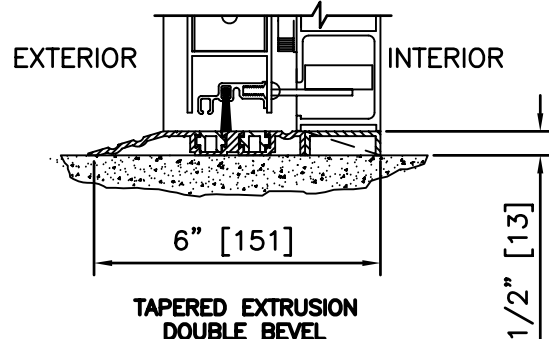
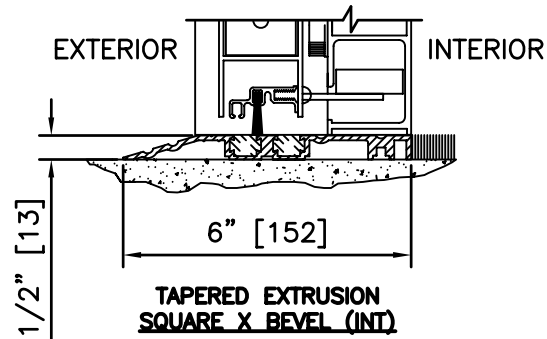
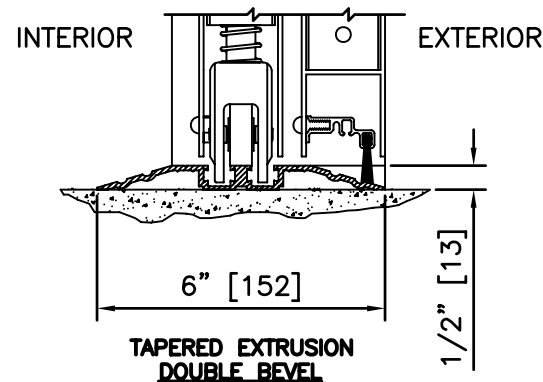
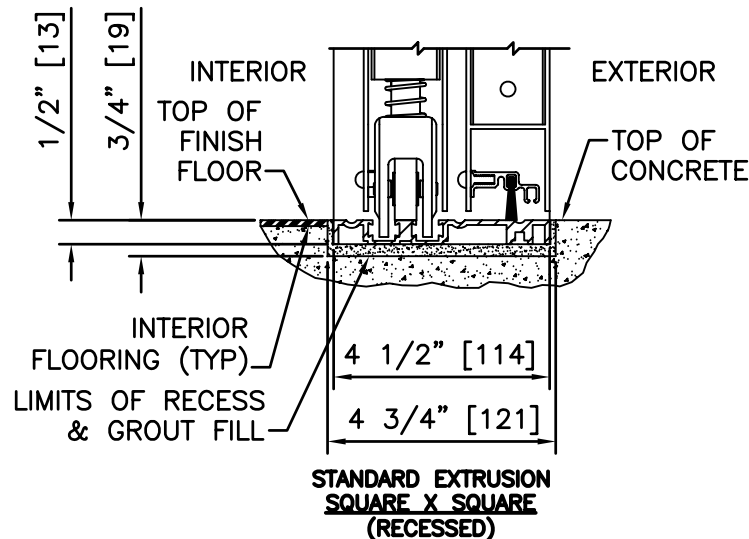
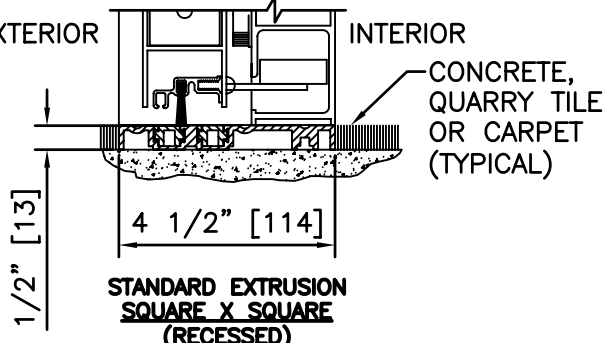
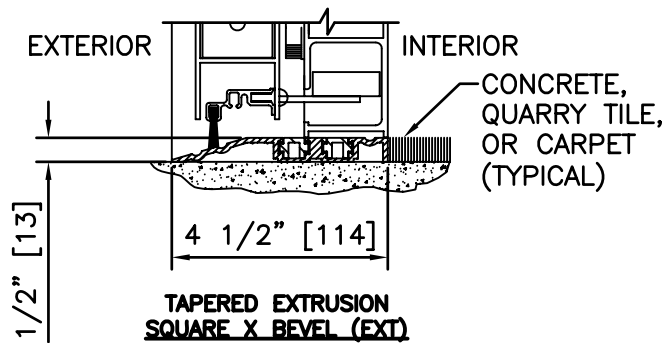
STANLEY

Access Technologies



DURA-GLIDE
2000/3000
SERIES

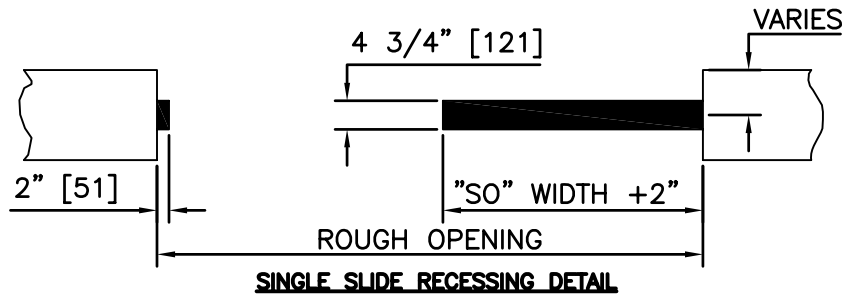
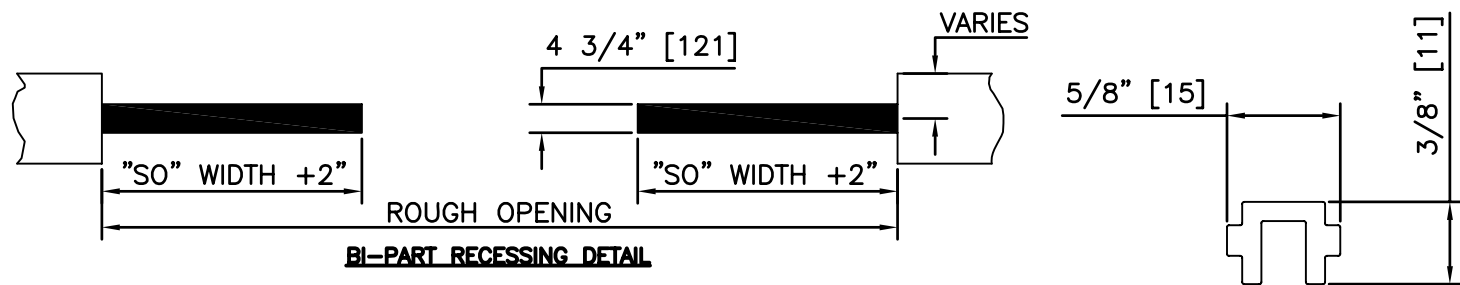
THRESHOLD OPTIONS	
PROJECT INFORMATION	
PROJECT NAME:	
LOCATION:	
DOOR NUMBER(S):	
DATE:	SHEET: OF



DURA-GLIDE 2000 SERIES 4 1/2" FRAME

SCALE: 3" = 1'-0"

NOTE: THRESHOLDS ARE NOT REQUIRED ON THE 2000 SERIES, HOWEVER, DUE TO VARIOUS FLOORING CONDITIONS THE THRESHOLDS SHOWN ARE AVAILABLE.



PLAN VIEW

SCALE: 3/8" = 1'-0"

NOTE: RECESSING MAY BE CONTINUOUS

STRIP FILLER

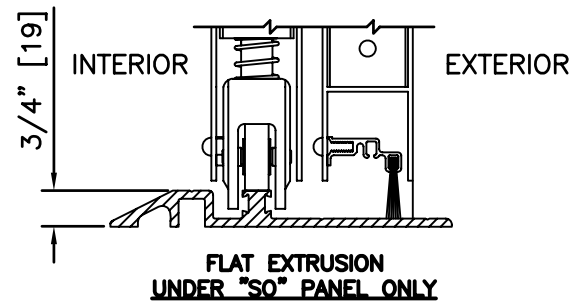
SCALE: SHOWN ACTUAL SIZE

NOTES:

1. RECESS SHALL BE 3/4" IN DEPTH BY 4 3/4" WIDE AND SHALL EXTEND FULL WIDTH OF ROUGH OPENING FOR CONTINUOUS THRESHOLDS OR UNDER "SO" PANELS ONLY FOR SEAMLESS FLOOR CONDITION AT DOOR OPENING.

2. FOR CONTINUOUS OPTION, THRESHOLD SHALL BE SPLIT AS REQUIRED TO FACILITATE MAINTENANCE OF THRESHOLD SECTION AT DOOR OPENING.

3. FILLER STRIP IS REQUIRED TO FILL SLOTS IN CONTINUOUS THRESHOLD THROUGHOUT DOOR OPENING.



DURA-GLIDE 3000 SERIES 4 1/2" FRAME

SCALE: 3" = 1'-0"

DURA-GLIDE 2000/3000 SERIES RECESSING DETAIL

SCALE: AS NOTED

DURA-GLIDE
2000/3000
SERIES



STANLEY
Access Technologies

DURA-GLIDE
2000/3000/5000
SERIES

TRANSOM OPTIONS

PROJECT INFORMATION

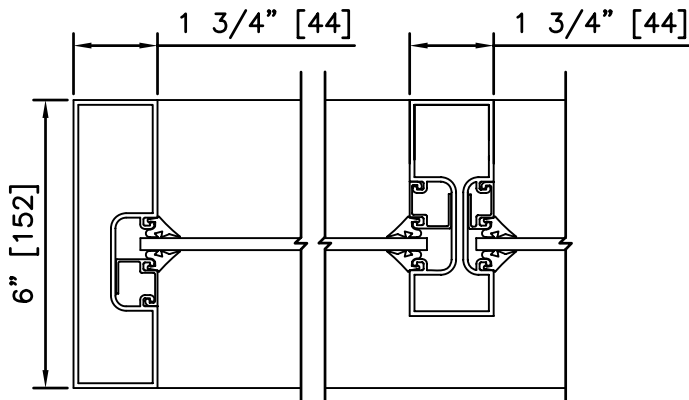
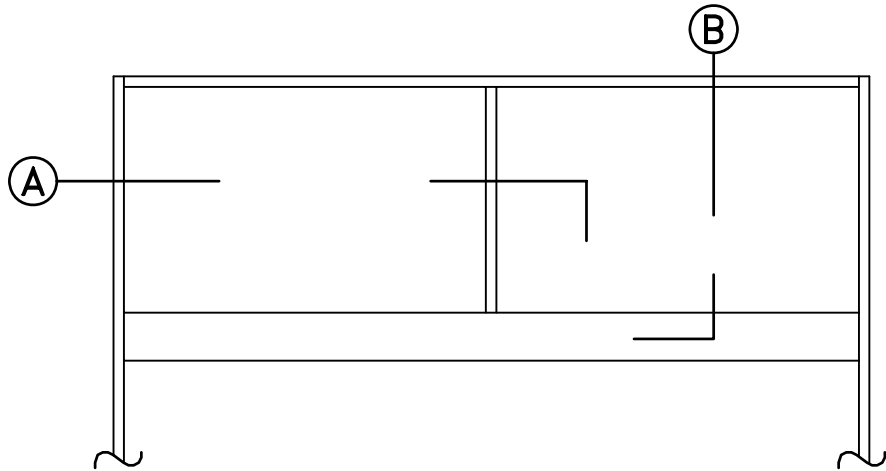
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LOCATION:

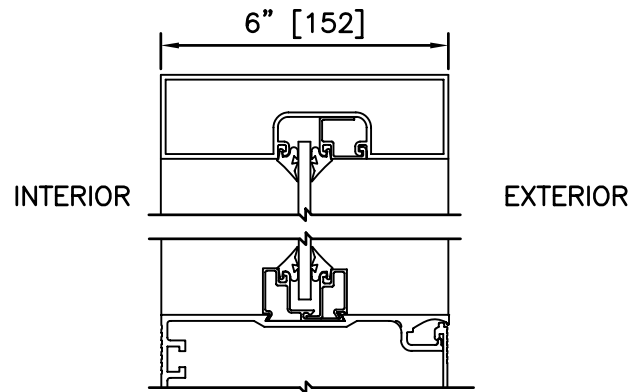
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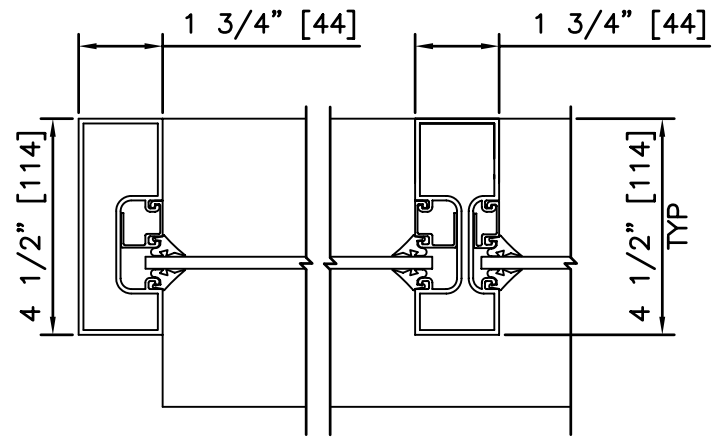
A1 HORIZONTAL SECTION
1/4" GLASS



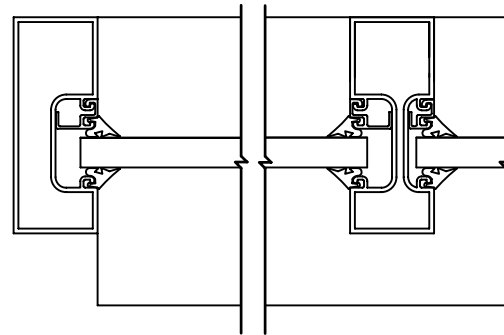
B3 VERTICAL SECTION
1/4" GLASS

DURA-GLIDE 5000 SERIES
SCALE: 3" = 1'-0"

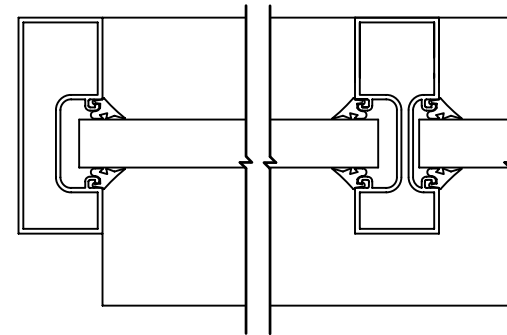
- NOTES**
- "INTERIOR" AND "EXTERIOR" ORIENTATION VARIES WITH PACKAGE TYPE. SEE SPECIFIC PACKAGE DRAWINGS FOR CORRECT ORIENTATION.
 - ALL 2000/3000 SERIES PACKAGES SHOWN WITH STANDARD 4 1/2"[114] FRAME; 6"[152] FRAME AVAILABLE.
 - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



A1 HORIZONTAL SECTION
1/4" GLASS

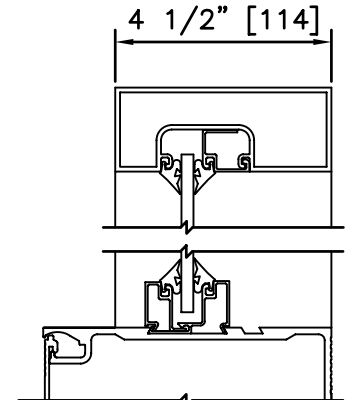


A2 HORIZONTAL SECTION
5/8" GLASS

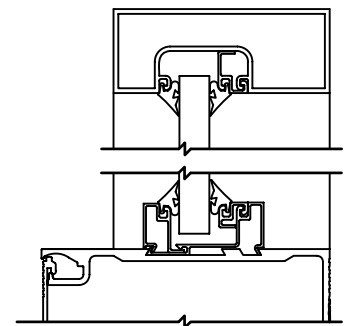


A3 HORIZONTAL SECTION
1" GLASS

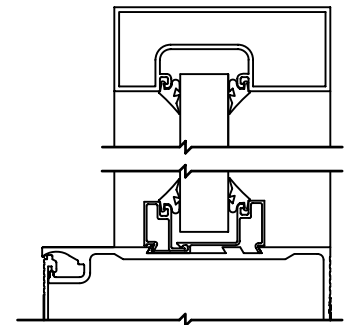
DURA-GLIDE 2000/3000 SERIES
SCALE: 3" = 1'-0"



B1 VERTICAL SECTION
1/4" GLASS



B2 VERTICAL SECTION
5/8" GLASS



B3 VERTICAL SECTION
1" GLASS

TRANSOM OPTIONS

DURA-GLIDE
2000/3000/5000
SERIES

STANLEY
Access Technologies

STANLEY

Access Technologies

DURA-GLIDE

3000

SERIES

BI-PART WITH OPTIONAL TRANSOM

PROJECT INFORMATION

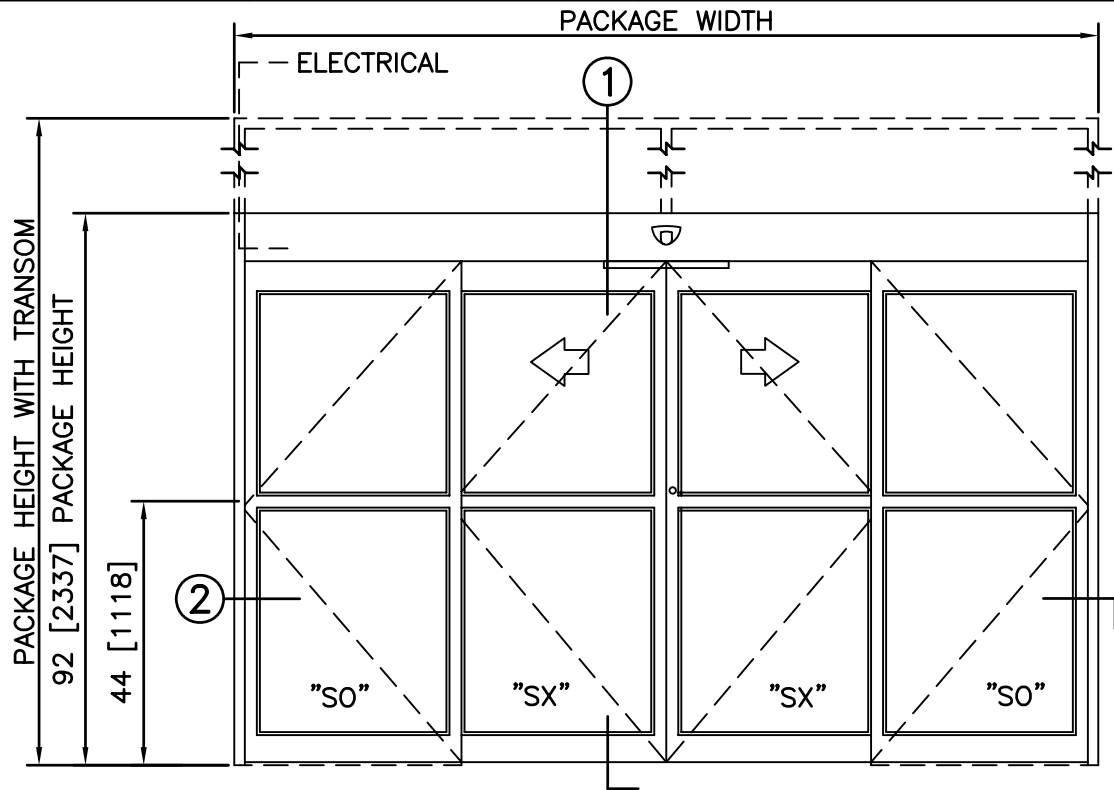
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LOCATION:

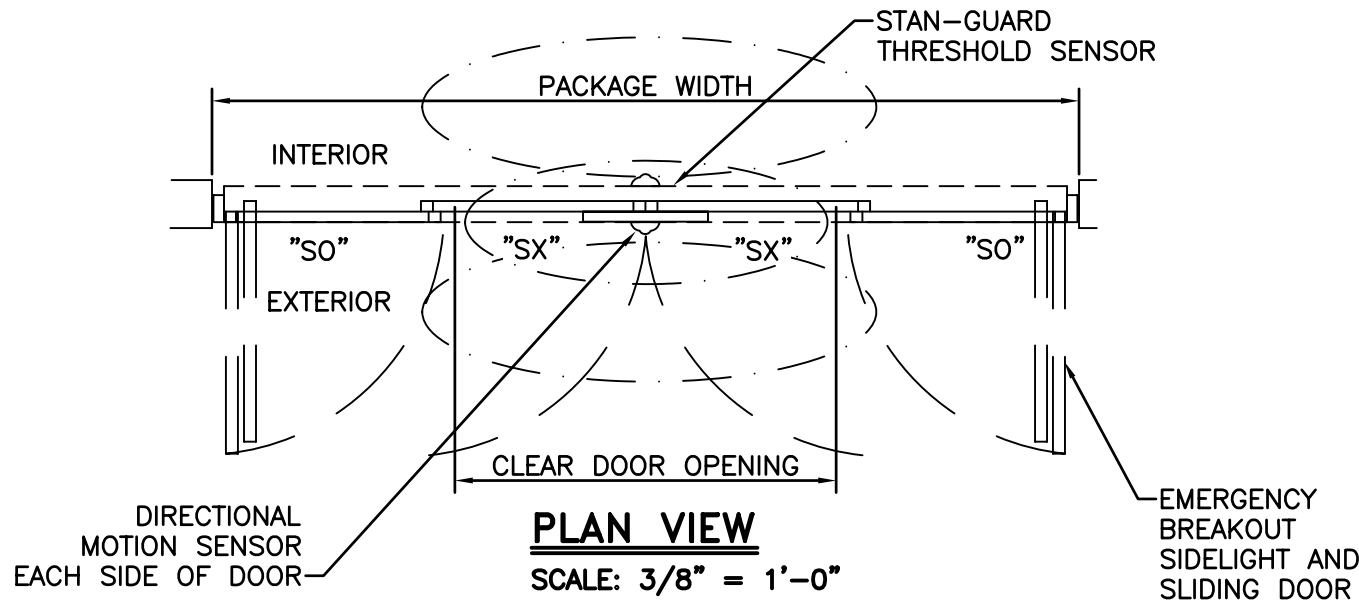
DOOR NUMBER(S):

DATE:

SHEET: OF

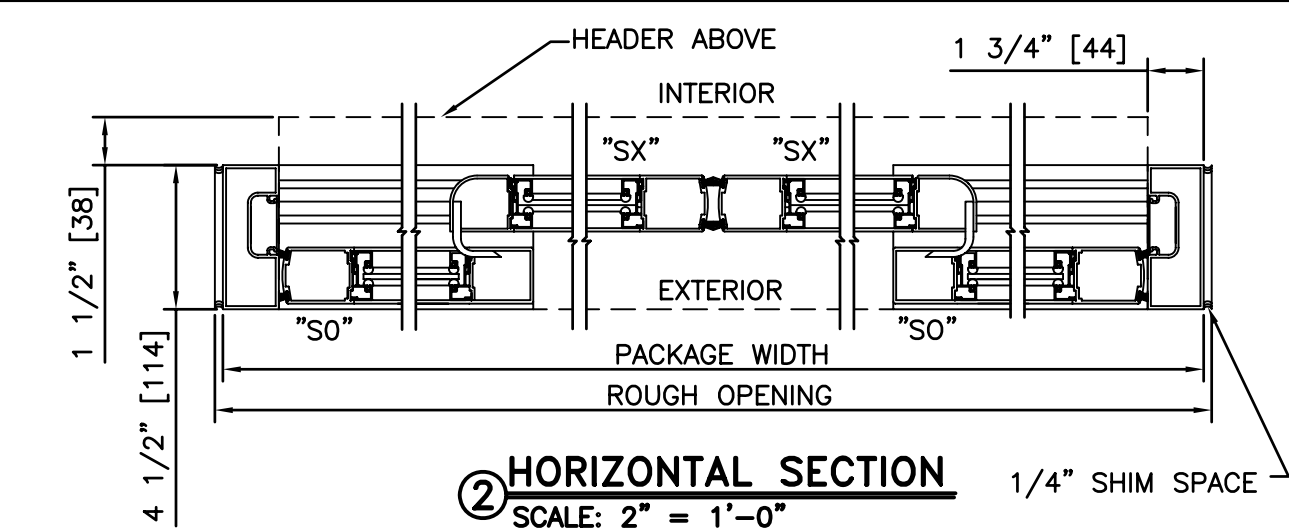


ELEVATION VIEW
SCALE: 3/8" = 1'-0"

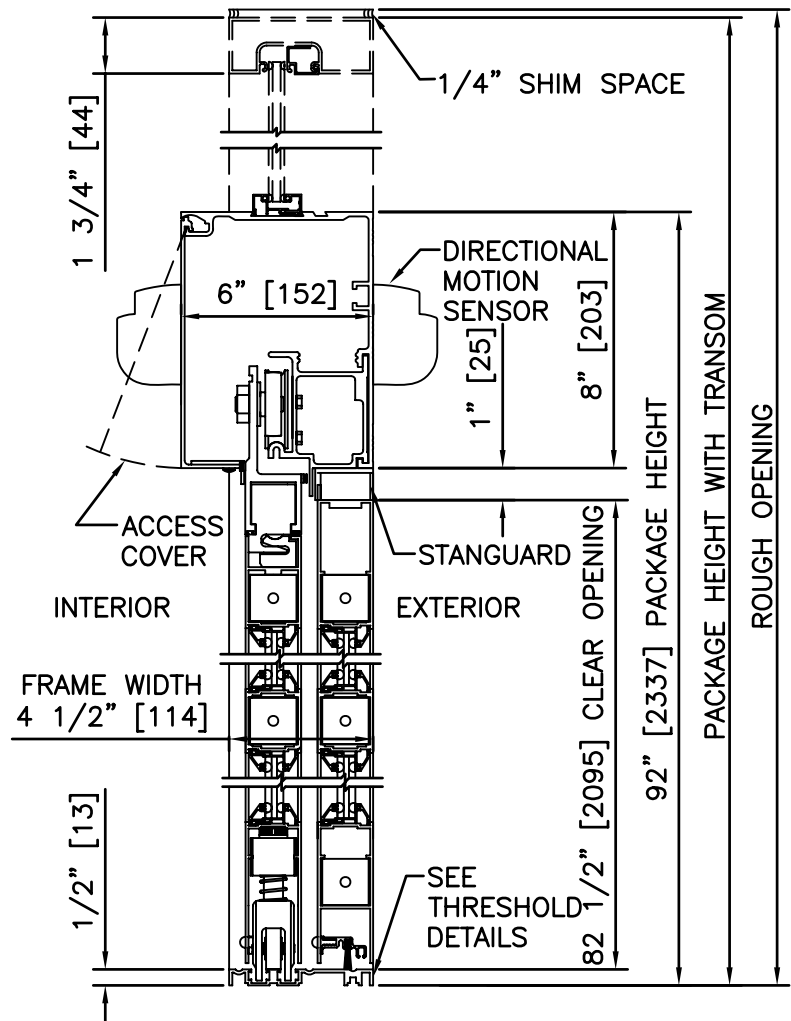


PLAN VIEW
SCALE: 3/8" = 1'-0"

- NOTES
- ELECTRICAL REQUIREMENTS: 120 VAC, 5 AMP MIN TO POWER OPERATOR BY ELECTRICAL CONTRACTOR.
 - ROUGH OPENING SHALL PROVIDE 1/4"[6] SHIM SPACE ON SIDES AND TOP OF PACKAGE.
 - LIMITS OF ACTIVATION AND SAFETY ZONES ARE FOR REFERENCE ONLY; SEE ANSI/BHMA A156.10 FOR DETAILED REQUIREMENTS.
 - STANDARD LOCKING IS 2-POINT, 3-POINT AND ACCESS CONTROL SYSTEMS AVAILABLE. SEE SHEET 1.11.
 - STANDARD GLAZING STOPS FOR ALL PANELS ARE 1/4"[6]; 5/8"[16] AND 1"[25] AVAILABLE FOR SLIDING PANEL, 5/8"[16] AVAILABLE FOR SIDE LITE.
 - STANDARD JAMB TUBES SHOWN; 6"[152] AVAILABLE.
 - STANDARD STILES, BOTTOM RAILS AND MUNTINS SHOWN; MEDIUM STILES, BOTTOM RAILS TO 12"[305], AND 4 1/4"[108] MUNTINS AVAILABLE.
 - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



HORIZONTAL SECTION
SCALE: 2" = 1'-0"



VERTICAL SECTION
SCALE: 2" = 1'-0"

- PRODUCT OPTIONS
- TRANSOM
☐ YES
☐ VERTICALS 1 2 3
- FINISH
☐ ANODIZED CLEAR CL2
☐ ANODIZED DK BRONZE
☐ CUSTOM
- LOCKING
☐ 2-POINT
☐ ACCESS CONTROL (PANIC)
☐ 3-POINT
- STILES
☐ NARROW
☐ MEDIUM
- BOTTOM RAILS
☐ STANDARD 4"
☐ OPTIONAL 6" 8" 10" 12"
- THRESHOLDS
☐ SQ/BVL (EXT)
☐ DBL BVL
☐ SQ/BVL (INT)
☐ RECESSED
- ACTIVATION/SAFETY
☐ 2 SU-100/STANGUARD
☐ 2 STANVISION
- OTHER OPTIONS
☐ UNINTERRUPTIBLE POWER SUPPLY
☐ FLY OPEN BOX
☐ WIND DAMPERS
☐ PANEL CLOSERS
☐ ALARM CONTACTS
☐ CLEAN ROOM (CL 1)

BI-PART FORMULAS - NARROW STILE
PACKAGE WIDTH = 2 X CLEAR DOOR OPENING + 23.4"
CLEAR DOOR OPENING = 1/2 PACKAGE WIDTH - 11.7"
EMERGENCY BREAKOUT WIDTH = PACKAGE WIDTH - 14.5"
DOOR PANEL WIDTH = 1/4 PACKAGE WIDTH + 0.3"

BI-PART FORMULAS - MEDIUM STILE
PACKAGE WIDTH = 2 X CLEAR DOOR OPENING + 32.1"
CLEAR DOOR OPENING = 1/2 PACKAGE WIDTH - 16.0"
EMERGENCY BREAKOUT WIDTH = PACKAGE WIDTH - 17.5"
DOOR PANEL WIDTH = 1/4 PACKAGE WIDTH + 1.1"

TYPICAL PACKAGE DIMENSIONS (NARROW STILE)			
PACKAGE WIDTH	NOMINAL CLEAR DOOR OPENING	DOOR PANEL NOMINAL WIDTH	EMERGENCY BREAKOUT NOM. WIDTH
120"	48.3"	30.3"	105.5"
144"	60.3"	36.3"	129.5"
168"	72.3"	42.3"	153.5"

DURA-GLIDE
3000
SERIES

STANLEY
Access Technologies

BS FAN



The first Big Ass Fan developed to excel both indoors and out, Essence provides the air movement needed in large spaces, from lobbies and clubs to open-air theaters and dining.

THE BEST FAN FOR A BIG SPACE, INDOORS OR OUT

- **Airfoils and Winglets** — Eight anodized Mini-Ellipto airfoils with winglets (black or silver).
- **Gearless Direct Drive Motor** — White or silver; permanent magnet design reduces power consumption.
- **Extension Tube** — Standard 2 ft (0.6 m); optional 3 to 15 ft (0.9 to 4.6 m).
- **Controller** — Wired wall controller mounts in standard single-gang junction box or to wall surface; connects with 10 V CAT5 cable.
- **Environment** — Suitable for indoor and outdoor spaces¹.
- **Accessories** — Wireless RF wall controller and Essence LED. See the Essence LED spec sheet for details.
- **Colors** — Standard color options for Essence are silver and black. Want something different? Individualize your fan with one of our 11 classic color upgrades, or work with our design consultants to create a shade that's all your own.
- **Efficiency** — Essence creates a cooling effect of up to 10°F (5.6°C), so you can raise your thermostat setpoint and reduce air conditioning costs without sacrificing comfort. In winter, Essence gently pushes down warm air trapped at ceilings, resulting in up to 30% savings on heating costs.



Standard Color Options



White Motor Housing with Silver Trim



Silver Motor Housing with Black Trim

Wired Wall Controller (Included)



Wireless Wall Controller (Optional)



Technical Specifications

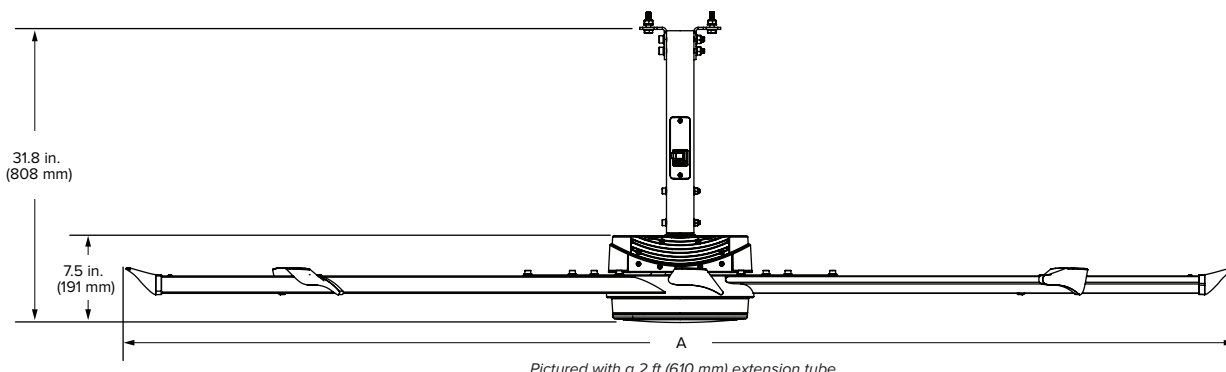
Diameter (A)	Weight ²	Max speed	Airfoil clearances ³	Input power and required breaker	Sound at max speed ⁴	IP Rating
8 ft (2.4 m)	75 lb (34 kg)	158 RPM	2 ft (0.6 m) on sides 2 ft (0.6 m) below ceiling deck	110–125 VAC, 1 Φ, 50/60 Hz, 10 A 200–240 VAC, 1 Φ, 50/60 Hz, 10 A	< 35 dBA	IP43
10 ft (3 m)	81 lb (37 kg)	107 RPM				
12 ft (3.7 m)	88 lb (40 kg)	76 RPM				
14 ft (4.3 m)	96 lb (44 kg)	56 RPM				

¹ Not suitable for salt air environments.

² Weight does not include mount or extension tube.

³ Suitable for ceilings as low as 12 feet (3.7 meters).

⁴ Fans are sound tested at maximum speed in a laboratory environment. Actual results in field conditions may vary due to sound reflecting surfaces and environmental conditions.



Lead times may vary.
Warranty period and terms vary by country and application.
To view your full warranty, visit bigassfans.com/product-warranties.
Specifications subject to change without notice.
Fan height does not include the optional LED light.
Certifications listed here apply to the fan and do not include accessories.



USA
BIGASSFANS.COM
877-244-3267

CANADA
BIGASSFANS.COM
844-924-4277

AUSTRALIA
BIGASSFANS.COM/AU
61 1300 244 277

SINGAPORE
BIGASSFANS.COM/SG
+65 6709 8500

MALAYSIA
BIGASSFANS.COM/SG
+603 5505 0888

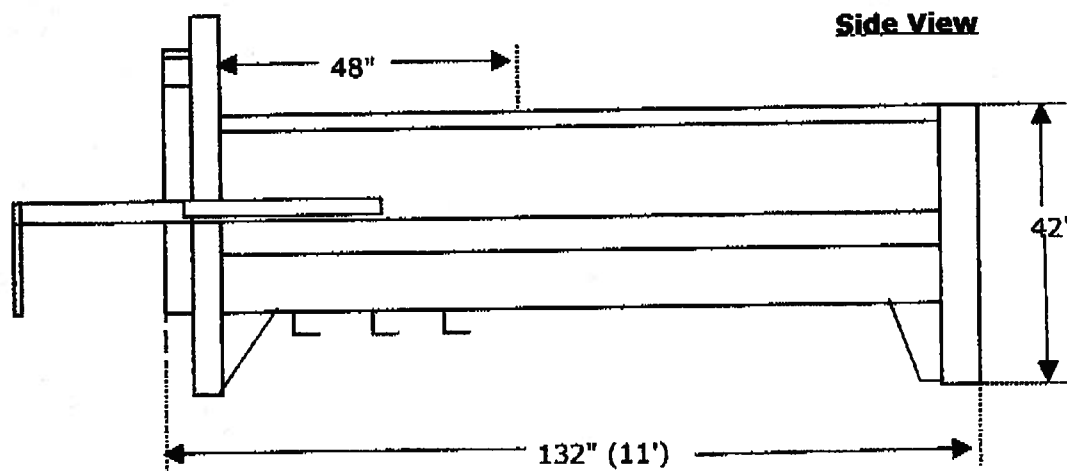
GARBAGE COMPACTOR





75 Rodinea Rd., Maple, Ont. L6A 1R3 Tel. 416-798-7789; Fax. 905-832-4821
acpackers@bellnet.ca

MODEL 200 STATIONARY COMPACTOR



- ◆ IDEAL FOR DRY / WET WASTE
- ◆ FULL ENCLOSURES & ODOUR CONTROL EQUIPMENT AVAILABLE
- ◆ LOW MAINTENANCE
- ◆ VARIOUS CONTAINER SIZES
- ◆ AUTOMATIC MULTI-CYCLE OPERATION
- ◆ MADE IN CANADA

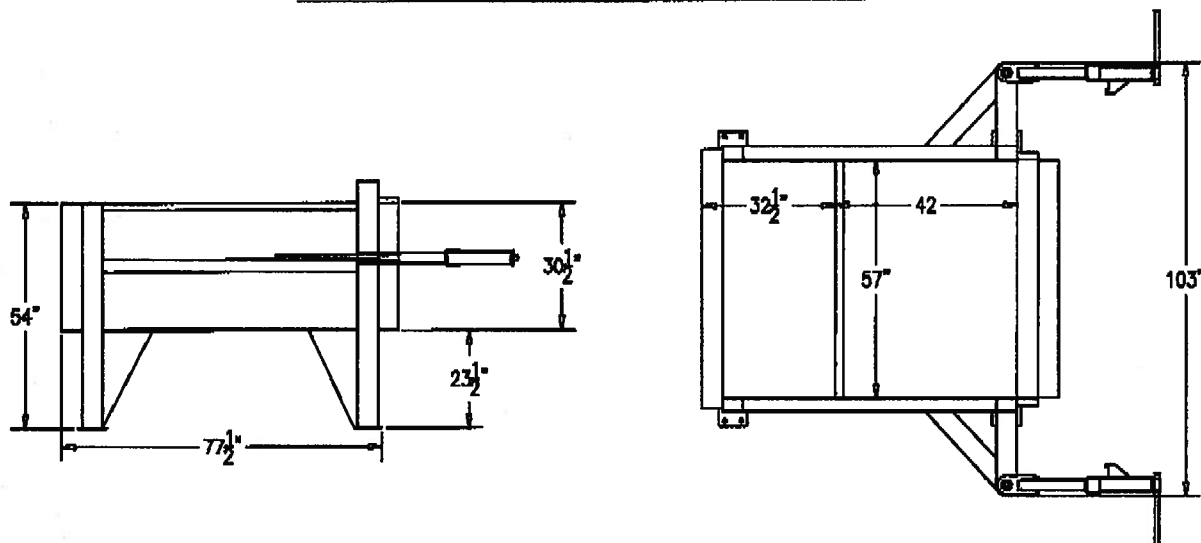
SPECIFICATIONS

Total Force	lbs.	Normal	51,000	Breaker Bar	6" X 6" X 1"	
		Max.	65,000	Motor Rating	HP	10
Charging Area		Cu. Yd.	2	Cylinder	Bore	6
Clear Top Opening			59" X 48"		Stroke	60
Ram	Frame	Floor	1/2"		Rod	3
		Side	5/16"	System	psi	Normal
		Face	3/8"	Pressure		Max.
		Floor	1/2"			
		Top	5/16"	Cycle Time	Sec.	54
		Sides	5/16"	Electrical	575	
Penetration			12"	Requirements	3 Phase 60 Hz	

Note: In accordance with varying material situations and our policy of continuing product improvement, these specifications are subject to change without notice and without incurring responsibility to products sold previously August 2008

AUTOMATIC COMPACTORS WASTE & RECYCLING EQUIPMENT

MODEL 200-SH COMPACTOR



SPECIFICATIONS

Total Force	lbs.	normal max.	46,500 52,900	Breaker Bar	(")	6 x 6 x 1
Charging Area	Cu. Yd.		2	Motor Rating	h.p.	10
Clear Top Opening		(")	57 x 44	Cylinder	Bore Stroke Rod	DUAL 4" 40 2 1/2
Frame	Floor Side	(") (")	1/2 5/16	System pressure	psi	normal max.
Ram	Face Floor Top Sides	(") (") (") (")	1/2 1/2 1/4 1/4	Cycle Time	sec.	48
Penetration		(")	12	Electrical Requirements		208/575 3 Phase 60 Hz

NOTE: IN ACCORDANCE WITH VARIOUS INTERNAL SITUATIONS AND OUR POLICY OF CONTINUING PRODUCT IMPROVEMENT, THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AND WITHOUT INCURRING RESPONSIBILITY FOR PRODUCTS SOLD PREVIOUSLY.

AUTOMATIC COMPACTORS CORP.
75 RODINEA ROAD
MAPLE, ONTARIO
L6A 1R3
TOR: (416) 798-7789
TEL: (905) 832-2261
FAX: (905) 832-4821

AUTHORIZED DISTRIBUTOR

ORDER FORMS – CROWN WALLPAPER
(For reference. To be requested from
Crown directly prior to ordering)





WINNERS, HOMESENSE, MARSHALLS PO Template PAGE 1

Date:	REF TJX CANADA STORE #/CITY	REQUIRED ON-SITE DATE:	Issued:
-------	-----------------------------	------------------------	---------

CONTRACTORS MUST GIVE A **MINIMUM 6 WEEKS** NOTICE PRIOR TO REQUESTED ON-SITE DATE

PURCHASER:		SHIP TO:	
Company Name:		Company Name:	
Address:		Address:	
Contact Name:		Contact Name:	
Phone / Fax #:		Contact Phone:	
Email:			

MUST ORDER FULL BOLTS ONLY Expiry: **DECEMBER 31, 2020**

ROLLS TO BE HUNG IN SEQUENCE ORDER

Banner	Description		Hanging Instructions	QUANTITY Required	Total

HOMESENSE StoreFront MARSHALLS Dressing Rm Public Corridor	Y46130LG-TJX WHITEHOUSE 30 LYD/Bolt \$16.95/LYD		54" WIDE REVERSE HANG RANDOM MATCH		
MARSHALLS Dressing Rm, Interior Storefront	AZ52877SN-TJX SONNET NAVY 30 LYD/Bolt \$16.95/LYD	Fitting Room / Interior Storefront 	54" WIDE REVERSE HANG RANDOM MATCH AZ52877SN REPLACED AZ50532CDTJX		
MARSHALLS Mall Storefront	W2-LN-13-TJX QUANTITY – Minimum 30 L/yd @ \$18.95 Net per L/yd 30 Yard Bolts only	LINAGE SNOW 	54" wide 30 Linear Yard Bold REVERSE HANG RANDOM MATCH		
	AZ52703MA-TJX MAESTRO – DARKDANCE QUANTITY – Minimum 30 L/yd @ \$18.95 Net per L/yd 30yd bolts		54" wide 30 Linear Yard Bold STRAIGHT MATCH 30 Yard Bolts Only		
	Y46482CSS-TJX QUANTITY – Minimum 30 L/ yd @ \$23.95 Net per L/yd 30 Yard Bolts only		54"Wide Reverse Hang Random Match		

TAXES & FREIGHT EXTRA **NO RETURNS or EXCHANGES**

***ROLLS TO BE HUNG IN SEQUENCE ORDER**



WINNERS, HOMESENSE, MARSHALLS PO Template PAGE 2

Please email this purchase order to

CREDIT CARD NUMBER		EXPIRY DATE	
NAME ON CARD	CVV SECURITY CODE_____MANDATORY		
SIGNATURE			

METHOD OF PAYMENT – Visa, M/C, Amex, Cheque or on pre-approved Account with Terms

EMAIL rsanto@crownsurfacesolutions.com

Any questions, please call Rose Santo @ 416-245-2900 ext. 3039

This page must be signed
If you have terms on your account and “ON ACCOUNT” beside signature



WINNERS, HOMESENSE, MARSHALLS PO Template PAGE 1

Date:	REF TJX CANADA STORE #/CITY	REQUIRED ON-SITE DATE:	Issued:
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CONTRACTORS MUST GIVE A **MINIMUM 6 WEEKS** NOTICE PRIOR TO REQUESTED ON-SITE DATE

PURCHASER:		SHIP TO:	
Company Name:		Company Name:	
Address:		Address:	
Contact Name:		Contact Name:	
Phone / Fax #:		Contact Phone:	
Email:			

MUST ORDER FULL BOLTS ONLY Expiry: **DECEMBER 31, 2020**

ROLLS TO BE HUNG IN SEQUENCE ORDER

Banner	Description		Hanging Instructions	QUANTITY Required	Total
WC1 Winners HomeSense Marshalls Associate Lounge	2VZZ-01 = 2VZZ-01TJX ZIG ZAG - SNOW \$22.95/LYD 30 Yard Bolts Only		52"/54" WIDE REVERSE HANG STRAIGHT ACROSS MATCH Repeat: Horizontal 26" – Vertical 6"		
WC3 WINNERS Women's & Men's Fitting Rooms	W2-LI-02-TJX Liaison - Silver QUANTITY – Minimum 30 L/yd @ \$18.95 Net per L/yd 30 Yard Bolts only		Weight: 20 oz. Backing: Non-woven Width: 52" Repeat: 3.6"Hx13"W Match: Straight		
WC4 WINNERS Fitting RM Foyer	2VUP-01-TJX QUANTITY – Minimum 30 L/ yd @ \$23.95 Net per L/ yd 30 Yard Bolts only		54" WIDE Weight: 20 oz Backing: Non-Woven		
WC5 WINNERS Columns	2VSD-15-TJX QUANTITY – Minimum 30 L/yd @ \$23.95 Net per L/yd 30 Yard Bolts only	Stitched Leather 	52/54" WIDE Weight: 20 OZ REVERSE HANG RANDOM MATCH		
WC7 WHS COMBO BACKLINE	W2-HZ-05-TJX QUANTITY – Minimum 30 L/yd @ \$25.95 Net per L/yd 30 Yard Bolts only		GENON - HORIZON MISTY GREIGE WIDTH: 52" REPEAT: 24"H X 52"W		
WC8 HOMESENSE Q-Line	AZ52646SA-TJX SARINDA ONYX QUANTITY – Minimum 30 L/yd @ \$25.95 Net per L/yd 30 Yard Bolts only		52/54" WIDE Weight: 20 OZ REVERSE HANG RANDOM MATCH		
WC10 HOMESENSE Columns	Y46343OA-TJX Oasis – Light Pewter QUANTITY – Minimum 30 L/yd @ \$22.95 Net per L/yd 30 Yard Bolts only		54" wide 30 Linear Yard Bold REVERSE HANG RANDOM MATCH		



WINNERS, HOMESENSE, MARSHALLS

Purchase Order Template PAGE 2

WC9 HOMESENSE Columns & rug wall	BB-SR-06-TJX QUANTITY – Minimum 30 L/yd @ \$24.95 Net per L/yd 30 Yard Bolts only	SILKROADS BLACK TEA 	52/54" WIDE Weight: 20 OZ REVERSE HANG RANDOM MATCH		
WC12 Marshalls Backline & Feature Walls	W2-MT-07-TJX MOLTEN- CHARRED QUANTITY- Minimum 30 L/yd @ \$27.95 Net per L/yd 30 yd bolts only		54" wide 30 Linear Yard Bolt Reverse Hang Random Match 24"H X 54"W		
WC11 Marshalls columns & Fitting Rm	2VRL-05-TJX Exclusive- Real QUANTITY- Minimum 30L/yd @ \$27.95 Net per L/yd 30 yd bolts only		52/54" wide 30 Linear Yard Bolts Reverse Hang Random Match		
WC14 Marshalls Store Front	Y46386CH Charisma -Ultra White QUANTITY- Minimum 30 L/yd @ \$23.95 Net per L/yd 30 yd bolts only		54" Wide 30 Linear Yard Bolts Revers Hang Random Match		
WALL PROTECTION Requires Special Paste, which is available at Sherwin William Primer and Adhesive: Primer: Roman Pro-935 (R-35 Adhesion Promoting Primer) Adhesive: Roman PRO-555 Extreme Tack Wallcovering Adhesive Special hanging instructions: https://www.crownsurfacesolutions.com/products.html?cat=contract&type=advancedwallprotection					
WC13 Marshalls Public corridors	P3T-60171 Infinity – Hazy Grey Sold in 15 yd increments only \$81.00 net per l/yd	WALL PROTECTION Special hanging instructions	48" wide 15 Linear Yard Bolt ONLY Reverse Hang Random Match BACKING - WEAVE		
WC2 Winners Public Corridor Mall Storefront	P3T-60194 Infinity – Stone Sold in 15 yd increments only \$81.00 net per l/yd	WALL PROTECTION Special hanging instructions	48" wide 15 Linear Yard Bolt ONLY Reverse Hang Random Match BACKING - WEAVE		

TAXES & FREIGHT EXTRA

NO RETURNS or EXCHANGES

*ROLLS TO BE HUNG IN SEQUENCE ORDER

METHOD OF PAYMENT – Visa, M/C, Amex, Cheque or on pre-approved Account with Terms

CREDIT CARD NUMBER		EXPIRY DATE	
NAME ON CARD	CVV SECURITY CODE_____MANDATORY		
SIGNATURE			

Please email this purchase order to:

EMAIL rsanto@crownsurfacesolutions.com

Any questions, please call Rose Santo @ 416-245-2900 ext. 3039

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ENTRANCE FLOORING





Entrance Flooring

Installation Instructions

Pedimat® **M1**, Pedimat AA **M2** with Tapered Angle Frame

View the installation video for this model at www.c-sgroup.com/entrance-flooring/videos

General Information

Open the pack list on the crate's exterior. Locate the shop drawings and installation instruction inside the box. Review contents and make sure all parts are present. For a rectangular installation, the pack list will include the number of modules and frame pieces. For odd-shaped installations, a drawing will be supplied identifying the module layout in numbered sequence.

If you discover that material is missing or defective, contact our customer service department immediately:
800.233.8493

Important Notes - Do Not Overlook

Prior to installation, ensure that the material is stored indoors and has acclimated to the environment's temperature for 24 hours.

Assess the site condition prior to installation ensuring the recess is:

- Free of debris and moisture
- The correct depth throughout
- Smooth and flat

High spots should be ground down. Low spots should be filled with a self-leveling grout. The side walls of the recess should also be checked for plumb and defects as this could affect the frame installation (if applicable). If these conditions have been met, you can begin the installation.

Tools Required

You will need a level, 5/32" masonry drill bit, flathead screwdriver, #2 Phillips-head screwdriver, tape measure, car-penter's pencil or marker, utility knife, shop vacuum and PPE (gloves, glasses, ear protection, etc.).

Installation Instructions



1 Start by dry fitting all frame pieces within the area and use a tape measure to ensure a proper fit. For odd-shaped layouts, match frame tags to the drawing on the pack list.



2 Using a straight edge, ensure the top frame edge is flush with the surrounding floor surface. Shim frame every 24" if necessary to achieve required height.



3 Using the 5/32" masonry bit, drill into the concrete 24" on center. Fasten the frame with the supplied masonry anchors using a #2 Phillips-head screwdriver.

To view details, specs and product info visit www.c-sgroup.com/efs.

For technical and design assistance call 800.233.8493



Entrance Flooring

Installation Instructions

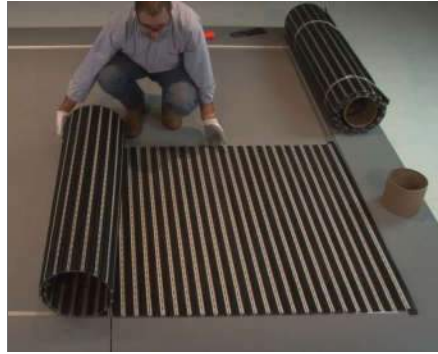
Pedimat® M1, Pedimat AA M2 with Tapered Angle Frame

View the installation video for this model at www.c-sgroup.com/entrance-flooring/videos

Installation Instructions (continued)



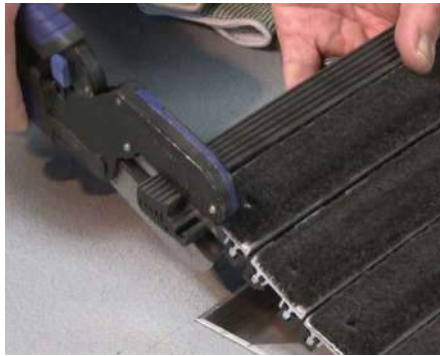
4 For layout sequence of the mat units with multiple sections, refer to the shop drawings and the mark numbers placed on the backside of the mats.



5 Unroll the mats and place into the recess per the drawing layout.



6 Align the mat into the recess.



7 Cut the oversized end trim flush to the edge of the rail.



8 For proper overall fit, adjust the end trim using a utility knife with a new, sharp blade. Remove excess trim equally at both ends. The end trim has grooves every 1/8" that you can run the blade across.



9 For beginners: we recommend using a straight edge to assist in cutting an accurate line. Once the end trim is adjusted, tuck the mat into the recess and push flat.



10 Repeat steps 8 -12 for adjacent sections.



11 Scuff or drag your heel to align the mat. It may be necessary to lift and flap/shake the mat for final alignment.



12 Clean the unit with a vacuum.

To view details, specs and product info visit www.c-sgroup.com/efs.

For technical and design assistance call 800.233.8493

Installation Instructions (continued)



13 If construction is to continue in the building, protect the unit with plywood sheathing.



14 Care & Maintenance: to properly clean underneath the mat and avoid rail damage, roll back the mat edge to the 12th rail. Continue to roll back the mat holding that diameter.

KEYBOARD TRAY



Specification Sheet



Keyboard Systems

Model Number: 6G500-F2022

List Price (As of 10/31/13): \$427

FEATURES

- Intuitive height adjustment that requires no locks, levers or controls
- Dial-a-tilt positioning that allows you to type at the angle most comfortable for you
- Ultra-thin profile to provide maximum knee clearance
- Superior design to provide maximum strength and stability yet extremely lightweight
- Raised tilt mechanism to protect the keyboard from collisions with the edge of the desk

SPECIFICATIONS

Keyboard Mechanism

- Tilt adjustment range: 0° to -15°
- Exceeds BIFMA standards
- Made primarily of powder-coated steel
- 15-year 24/7 warranty

Keyboard Platform

- Wide range of keyboard options
- Made of 1/4" phenolic resin
- Durable and slim profile
- Available with Technogel or foam palm supports

CONFIGURATION DETAILS

CODE DESCRIPTION

6G	- 6G Standard Black Mechanism
500	- Big Platform
-	No Mouse Platform
F20	- 20" Foam with Synthetic Leather Cover
22	- 22" Track Length - Rec. for most Applications

SUSTAINABILITY

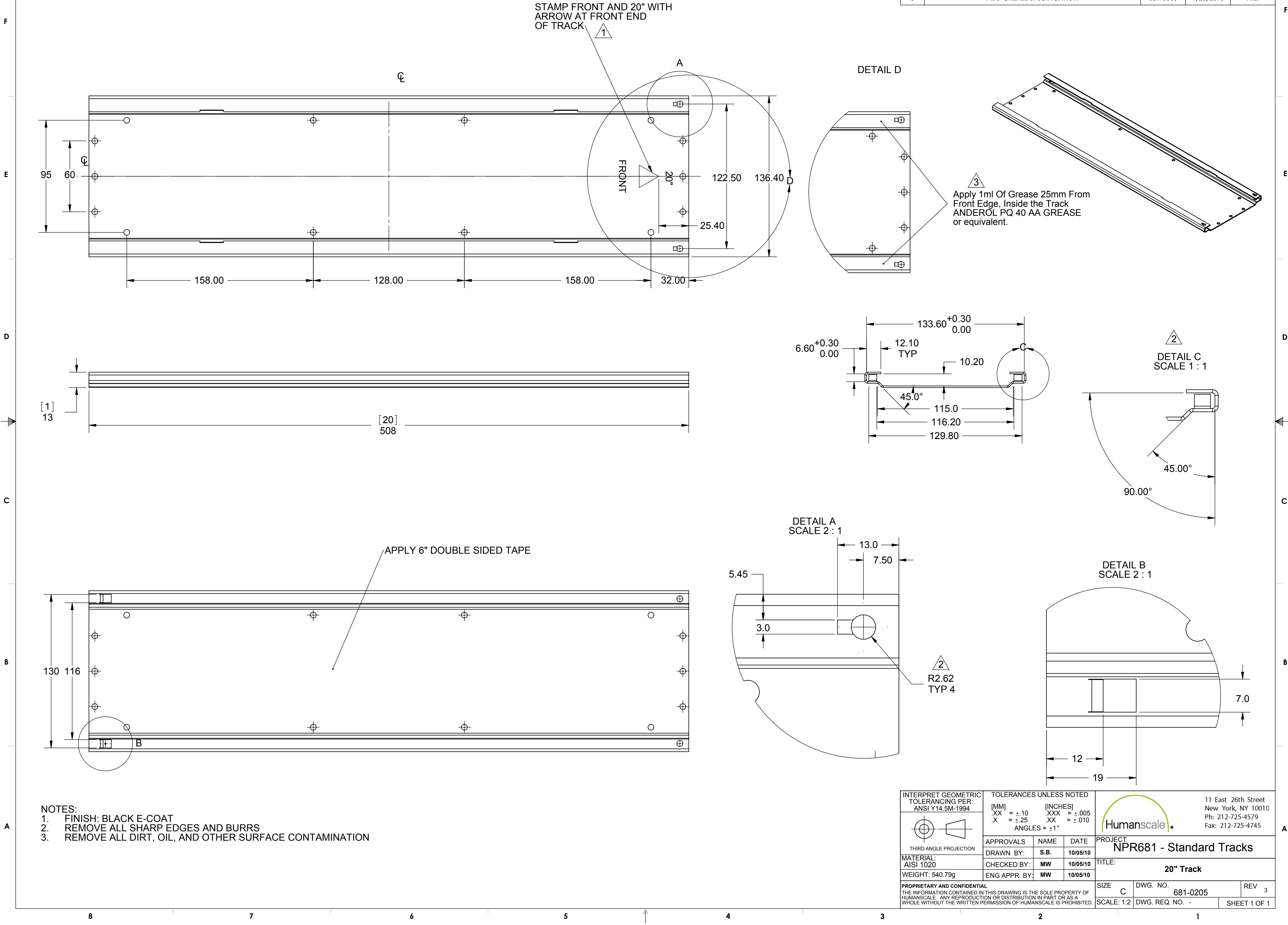
A selection of sustainability highlights for keyboard systems:

- Recycled content: up to 19% post-consumer
- Made predominantly of steel, which is highly recyclable

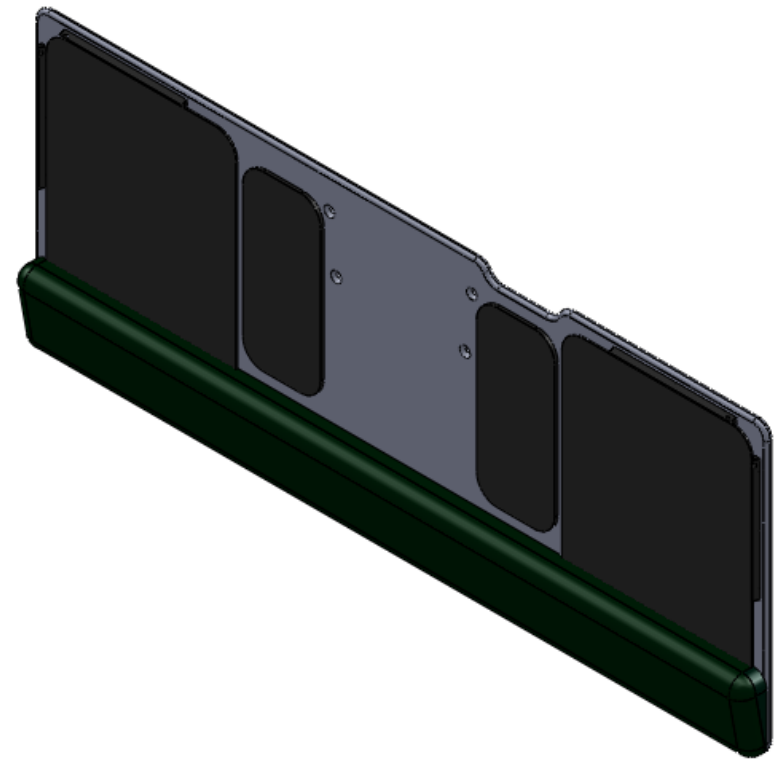
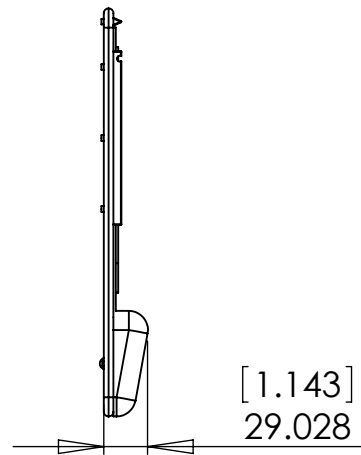
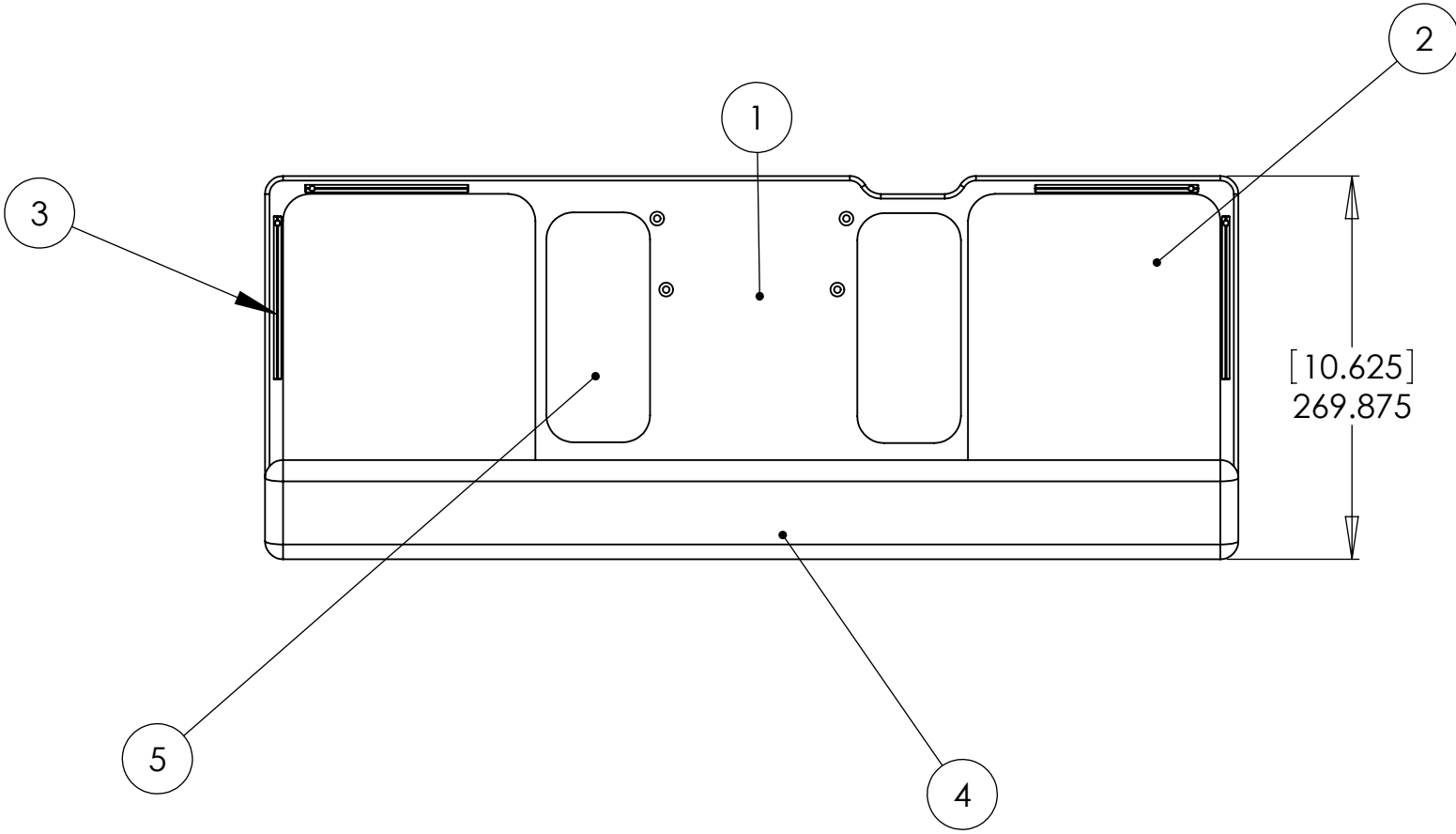
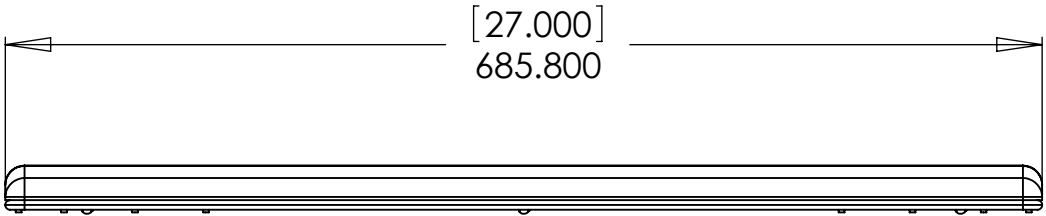
FIND OUT MORE

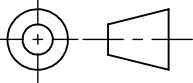
Humanscale.com

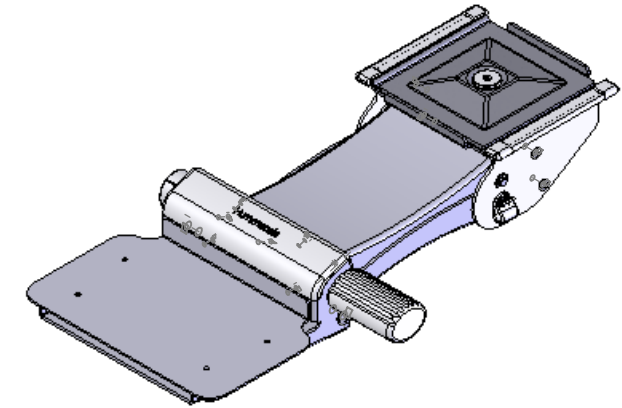
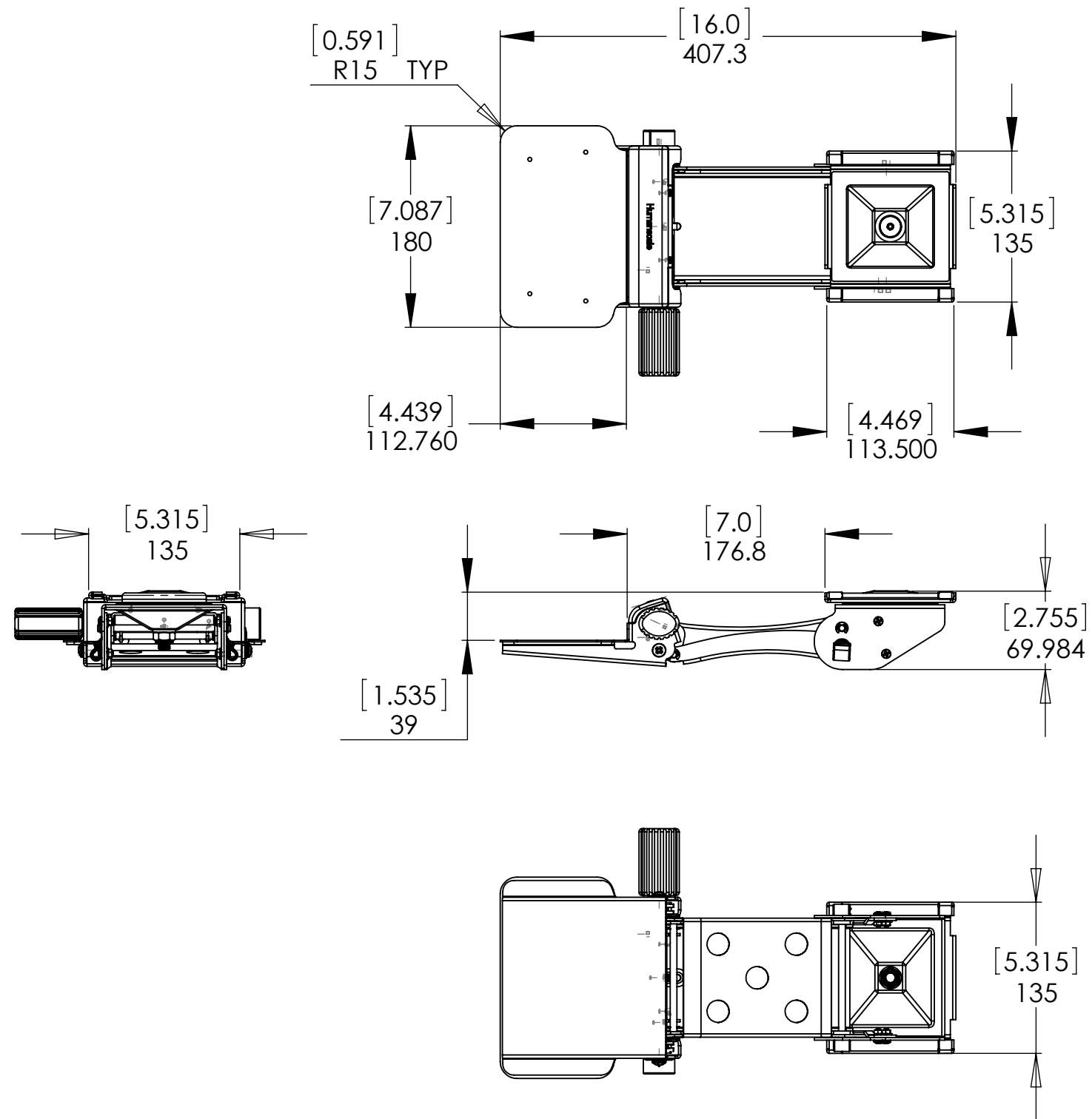
REV.	DESCRIPTION	ECN#	DATE	APPROVED
0	INITIAL RELEASE		10/5/2010	S.B.
1	ADD STAMP AT THE END OF THE TRACK		5/27/2011	A.E
2	CHANGE HOLE DIMENSION TO 2.62MM FROM 2.50MM, ADD DETAIL C		8/21/2012	A.E.
3	ADD GREASE SPECIFICATION	681-0005	9/23/2013	A.E.

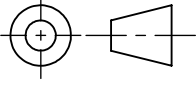


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0700180500BL01	500 STD PHENOLIC CUT	1
2	052004	VINYL MOUSE PAD	2
3	052064	Straight Mouse Guard	4
4	KB G27 PALM REST	27" GEL PALM REST	1
5	052020	Non-Skid Pads	2



INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5M-1994		TOLERANCES UNLESS NOTED			11 East 26th Street New York, NY 10010 Ph: 212-725-4579 Fax: 212-725-4745	
		[MM] .XX = ±.10 .X = ±.25	[INCHES] .XXX = ±.005 .XX = ±.010 ANGLES = ±1°			
		APPROVALS	NAME		DATE	PROJECT
MATERIAL: -		DRAWN BY:	AER	03/16/11	KEYBOARDS	
WEIGHT: g		CHECKED BY:	-	-	TITLE: 500 BOARD ASSEMBLY	
		ENG APPR. BY:	-	-		
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF HUMANSCALE. ANY REPRODUCTION OR DISTRIBUTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF HUMANSCALE IS PROHIBITED.					SIZE B	DWG. NO. 500G27
					SCALE: 1:5	REV -
					DWG. REQ. NO. -	SHEET 1 OF 1

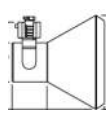
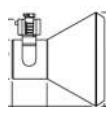
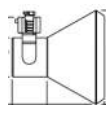
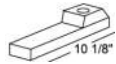


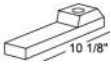
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5M-1994  THIRD ANGLE PROJECTION			TOLERANCES UNLESS NOTED [MM] .XX = ±.10 .XXX = ±.005 .X = ±.25 .XX = ±.010 ANGLES = ±1°			 11 East 26th Street New York, NY 10010 Ph: 212-725-4579 Fax: 212-725-4745		
APPROVALS DRAWN BY: AER CHECKED BY: - ENG APPR. BY: -			NAME DATE 03/16/11			PROJECT KEYBOARDS		
MATERIAL: - WEIGHT: 5.792g			TITLE: 6G MECH			SIZE B		
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF HUMANSCALE. ANY REPRODUCTION OR DISTRIBUTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF HUMANSCALE IS PROHIBITED.			DWG. NO. 6G			REV -		
SCALE: 1:5			DWG. REQ. NO. -			SHEET 1 OF 1		

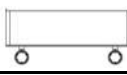
ORDER FORMS – FRANKLINE EMPIRE



ITEM	QUANTITY	PRODUCT DESCRIPTION		EXTENDED
A	68		24RTC 68 347 840 T-BAR CEILING STORES c/w Ext Warranty	
D	68		24RTC 68 347 840 + DF 24 WU - Frame Kit for Drywall	
			SSLED-LD5-12-W-UNC-L840-CD1-MP/SHK-U/MC15/LOOP30 FR22 REFLECTOR	
B			SLMPRO6 40K C WH 6" Integral Recessed	
Q			SLMPRO8 40K C WH 8" LED OPEN SHALLOW CEILING	
			RAB DL- LED24-A-4K-YLW-LH Dock Light	
N			SLMPRO6 40K BK 6" LED (Homesense Exterior Sofit)	
G1			LSS/S2/4FT/40W/40K/120-277/A1/STD Order#66170	
G2			LSS/S2/8FT/75W/40K/120-277/A1/STD Order# 66171	
J			22RTC 34 347 L840 U c/w Ext Warranty	
	120		LSR6B 20 MB 6LB / EC6B 1020 8040 / 6LBM O LI	
L	120		4452 INC200 120V AC60 RC BLK SA Eureka KOLOKOL c/w LED18D38OW3840/40 40 degree beam 93172	
			TMS: CUS34041	
T			XTOR3B-347V c/w Ext Warranty	
V			DVBKS-LED-14W GL100CL-RIB GD100CGS	
			LS4-132-347-IS-IOPA-QC - LED VALANCE LIGHTING 4' LED18ET8/4/840-1	

ITEM	QUANTITY		PRODUCT DESCRIPTION		EXTENDED
120			LS3-125-347-IS-IOPA-QC LED VALANCE LIGHTING 3'		
	0		LED12ET8/3/840		
			JZ-IN150W-120V-F16		
	0		LED11DA19/3K		
			QS26 100IN 120 WM F15		
	0		LED18D38OW3840/40 40 degree beam 93172		
			BGLG 52W LED WH PARPET MOUNT LIGHT		
ALL TRAC TO BE SUSPENDED 12' ABOVE FINISHED FLOOR					
K 120			JUNO R550WH WHITE		
	0		LED18D38OW3840/40 40 degree beam 93172		
C 120			JUNO R550BL BLACK TRAC HEAD		
	0		LED18D38OW3840/40 40 degree beam 93172		
L 120			JUNO R550 WH WHITE		
	0		LED18D38OW3840/40 40 degree beam 93172		
			JUNO T260L 40K 90CRI OFF (Wall Washer)		
			WHITE COMPONENTS		
			T90-24 T Bar Pendant Stem Kit		
			T93 Wireway cover		
			T92 STRUCTURAL BRIDGE		
			JUNO T38 Live End Feed		
			JUNO T23 Mini Joiner		
			T24F		
			T25		
			T20		
			JUNO T4 4' TRAC		
			JUNO T6 6' TRAC		
			JUNO T8 8' TRAC		
			JUNO T12 12' TRAC		
			BLACK COMPONENTS		
			T90-24 T Bar Pendant Stem Kit		

ITEM	QUANTITY	PRODUCT DESCRIPTION			EXTENDED
			T93 Wireway cover		
			T92 STRUCTURAL BRIDGE		
			JUNO T38 Live End Feed		
			JUNO T23 Mini Joiner		
			T24F		
			T25		
			T20		
			JUNO T4 4' TRAC		
			JUNO T6 6' TRAC		
			JUNO T8 8' TRAC		
			JUNO T12 12' TRAC		
ELECTRICAL COMPONENTS					
			CER# CP2 18' PAK POLES "ANNODIZED ALUMINUM" FT 18		
			CER# CP5 18' PAK POLES FT 18		
			CER#CP2 - 1 Duplex 15A 120V 18' PAK POLES FT 18		
			OVERSIZED SHIPPING CHARGE		
			B0753 750W HEATER		
	0		BRE153T - thermostat		
			B1003 1000W HEATER		
	0		BRE153T - thermostat		
			B1253 1250W HEATER		
	0		BRE153T - thermostat		
			BRE153T - Built In Thermostat		
			WF2003T- Recessed 2000W 347V		
			SHU1063C24 SPACE UNIT HEATER		
			DRII0763C24 HEATER		
			HONEYWELL T87K1015		
			Anti Vandal Guard F290143		
			160RF7-10 DESTRAIFICATION FANS		
			105RF CONTROLLER (1 PER 4 FANS)		
		DISTRIBUTION LOT - SEE SIEMENS BOM			
			OCCUPANCY SENSORS		
M1			OMC-DT-2000-R 347V		
M2			OMC-DT-0701-R 347V		

ITEM	QUANTITY		PRODUCT DESCRIPTION		EXTENDED
M3	0		SP15-347		
			OMC-DT-2000-R 120V		
			OMC-DT-0701-R 120V		
M4			OMC-P-0450-R 120V		
	0		SP20-MV		
			LMDW-102-W DUAL		
			LMRC-212-347		
			EXIT / EMERGENCY		
E 1			LS1WU - Universal Power Green Running 1 face		
E 2			LS2WU - Universal Power Green Running 2 face		
B			LSC1280W2LD9AT - COMBO running man-LED with Auto test		
			RG12S722LD7 72W LED		
			RG12S1002LD7 100W LED		
			MQM2LD7		
			MQ1-12VDC-LD7 LED		
A			RG12S72TB2MQ12W 72W		
			RG12S144TB2LD7 LED 144W		
SUB TOTAL					-
R.A					1
purchase order #					ACTIVE
					SUB TOTAL
					Freight
					H.S.T
					P.S.T
					G.S.T
TOTAL					\$ -
FIXTURE COUNTS MAY NOT BE THAT OF MOST CURRENT DRAWINGS AVAILABLE. FRANKLIN EMPIRE IS NOT RESPONSIBLE FOR ANY QUANTITY CHANGES OR MOUNTING ACCESSORIES NOT SHOWN ON SPREADSHEET PLEASE REVIEW BEFORE ISSUING PURCHASE ORDER.					

PLUMBING



American Standard

Style That Works Better



**MADERA™ FloWise® 16-1/2" HEIGHT
with EVERCLEAN®**

- Floor mount flushometer valve toilet
- Vitreous china
- Meets definition for HET (High Efficiency Toilet)
- High Efficiency (4.8 Lpf/1.28 gpf)
- Will also function at 1.1gpf and 1.6gpf with a properly set dual flush valve
- EverClean® surface inhibits the growth of stain- and odor-causing bacteria, mold, and mildew on the surface
- 10" or 12" roughing-in
- 16-1/2" rim height for accessible application
- Condensation channel
- Elongated bowl
- Powerful direct-fed siphon jet action
- Fully glazed 2-1/8" trapway
- 10" x 12" water surface area
- 1-1/2" top spud
- 2 bolt caps
- 100% factory flush tested

- ☐ **3461.128** Elongated bowl only, top spud
- ☐ **3461.001** Same as above, Universal Bowl
- ☐ **3462.128** Elongated bowl only, top spud with slotted rim for bedpan holding (White only)
- ☐ **3462.001** Same as above, Universal Bowl
- ☐ **3465.128** Elongated bowl only, top spud with 4 bolts
- ☐ **3465.001** Same as above, Universal Bowl
- ☐ **3466.128** Elongated bowl only, top spud with slotted rim for bedpan holding with 4 bolts (White only)
- ☐ **3466.001** Same as above, Universal Bowl
- ☐ **3463.128** Elongated bowl only, back spud
- ☐ **3463.001** Same as above, Universal Bowl
- ☐ **3464.128** Elongated bowl only, back spud with slotted rim for bedpan holding (White only)
- ☐ **3464.001** Same as above, Universal Bowl

Component Parts:

- ☐ **047007-0070A** Inlet spud (furnished with bowl)
- ☐ **481310-100** Bolt caps with retainers (furnished with bowl)

Nominal Dimensions:

718 x 356 x 419mm (28-1/4" x 14" x 16-1/2")

Recommended working pressure—between 25 psi at valve when flushing and 80 psi static

Fixture only, less seat and flushometer valve

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2-2008 / CSA B45.1-08 for Vitreous China Fixtures

**MADERA™ FloWise® 16-1/2" HEIGHT
1.28 GPF FLUSHOMETER TOILET
VITREOUS CHINA with EVERCLEAN®**



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:

- ☐ Color: ☐ White ☐ Bone ☐ Linen ☐ Black
- ☐ Seat:
 - ☐ American Standard #5901.100 Heavy duty open front less cover
 - ☐ American Standard #5905.100 Extra heavy duty open front less cover
- ☐ Flushometer Valve:
 - ☐ American Standard Selectronic™ #6065.121.002 DC Power (Top Spud)
 - ☐ American Standard Selectronic™ #6065.221.007 DC Power (Back Spud)
 - ☐ American Standard Selectronic™ #6067.221.007 AC Power (Back Spud)
 - ☐ American Standard Selectronic™ #6068.221.007 Multi AC Power (Back Spud)



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES
AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE
BUILDING FACILITIES - CHECK LOCAL CODES.

EVERCLEAN®
Surface



American Standard

Style That Works Better

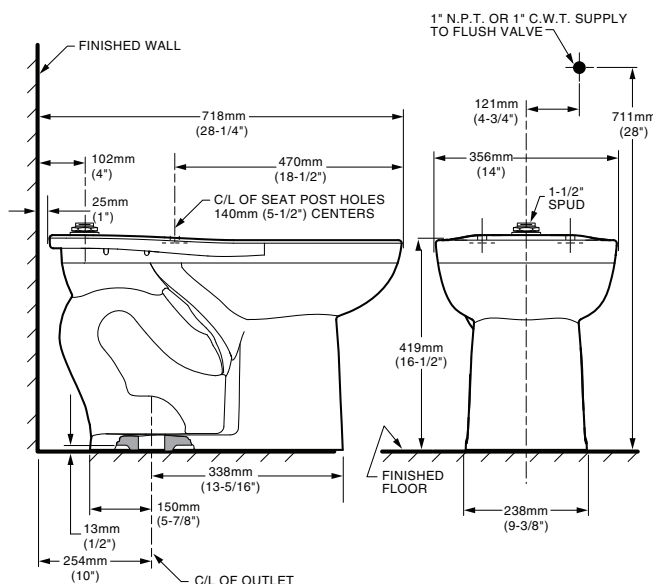


MADERA™ FloWise® 16-1/2" HEIGHT 1.28 GPF FLUSHOMETER TOILET

VITREOUS CHINA with EVERCLEAN®

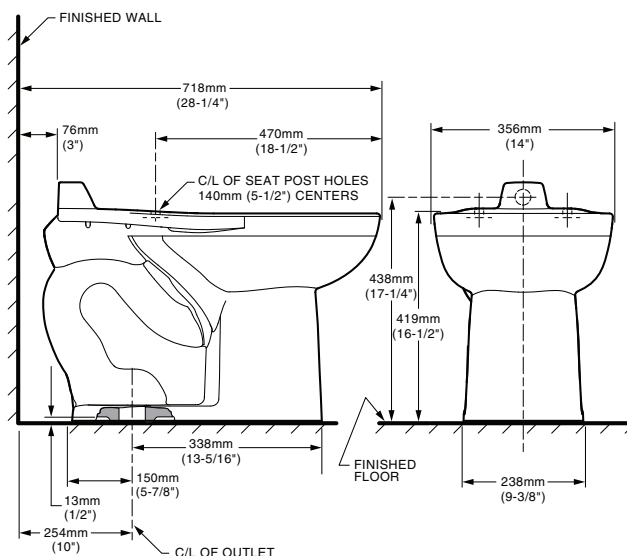
3461.128/3462.128/3465.128/3466.128

3461.001/3462.001/3465.001/3466.001



3463.128/3464.128

3463.001/3464.001

**NOTES:**

PRODUCT 3461 AND 3463 SHOWN, 3462 AND 3466 SAME AS EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.
TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.
THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 254MM (10") AND A MAXIMUM DIMENSION OF 305MM (12") FROM FINISHED WALL TO C/L OF OUTLET.
FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY. FLUSHOMETER VALVE REQUIREMENTS FOR 12" (305MM) ROUGH-IN: SWEAT EXTENSION NIPPLE IS REQUIRED. REFER TO VALVE MANUFACTURER AND LOCAL CODES.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

110/111 ES-S

► Description

Exposed, Sensor Activated Royal® Model Water Closet Flushometer, for floor mounted or wall hung top spud bowls.

► Flush Cycle

- ☐ Model 111-1.6 ES-S Low Consumption (1.6 gpf/6.0 Lpf)
- ☐ Model 110 ES-S Water Saver (3.5 gpf/13.2 Lpf)

► Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer with the following features:

- PERMEX™ Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- OPTIMA® EL-1500-L Self-Adaptive Infrared Sensor with Indicator Light
- User friendly three (3) second Flush Delay
- Courtesy Flush™ Override Button
- Non-Hold-Open Integral Solenoid Operator
- Die Cast Sensor Plate with no visible Fasteners (for 2-gang Electrical Box)
- Die Cast Solenoid Wall Cover Plate with no visible Fasteners (for 2-gang Electrical Box)
- 1. I.P.S. Screwdriver Bak-Chek® Angle Stop
- Free Spinning Vandal Resistant Stop Cap
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 1½" Top Spud
- Sweat Solder Adapter w/Cover Tube and Cast Wall Flange w/Set Screw
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Flush Accuracy Controlled by CID™ Technology
- Diaphragm, Stop Seat and Vacuum Breaker molded from PERMEX™ Rubber Compound for Chloramine Resistance

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037 and ANSI/ASME A112.19.2. Installation conforms to ADA requirements.

► Variations

- ☐ **TP** Trap Primer
- ☐ **YG** Extended Bumper on Angle Stop (for seat with cover)
- ☐ **YO** Bumper on Angle Stop (for open seat without cover)

► Accessories

- ☐ **EL-154** Transformer (120 VAC/24 VAC 50 VA)
- ☐ **EL-342** Transformer (240 VAC/24 VAC 50 VA)
- ☐ **EL-485-A** Flushometer Electrical Box Positioning and Support Kit

See Accessories Section and OPTIMA® Accessories Section of the Sloan catalog for details on these and other OPTIMA® Flushometer variations.

► Fixtures

Consult Sloan for Sloan brand matching fixture options.



► Automatic

Sloan OPTIMA® equipped Flushometers provide the ultimate in sanitary protection and automatic operation. There are no handles to trip or buttons to push. The Flushometer operates by means of an infrared sensor that adapts to its surrounding. Once the user enters the sensor's effective range and then steps away, the Flushometer Solenoid initiates the flushing cycle to flush the fixture.

► Hygienic

User makes no physical contact with the Flushometer surface except to initiate the Override Button when required. Helps control the spread of infectious diseases. 24-Hour Sentinel Flush keeps fixture fresh during periods of nonuse.

► Economical

Automatic operation provides water usage savings over other flushing devices. Reduces maintenance and operation costs.

► Practical

Solid state electronic circuitry assures years of dependable, trouble-free operation. The operational components of the Flushometer are identical to a handle activated Royal® Flushometer, proven by over 100 years of experience.

► Warranty

3 year (limited)

This space for Architect/Engineer approval

Job Name _____	Date _____
Model Specified _____	Quantity _____
Variations Specified _____	
Customer/Wholesaler _____	
Contractor _____	
Architect _____	

The information contained in this document is subject to change without notice.

Sloan Electronics are:



Description

Exposed, Sensor Activated Royal® Model Water Closet Flushometer, for floor mounted or wall hung top spud bowls.

Flush Cycle

- Model 111 ES-S Low Consumption (1.6 gpf/6.0 Lpf)
- Model 110 ES-S Water Saver (3.5 gpf/13.2 Lpf)

ELECTRICAL SPECIFICATIONS

Control Circuit

Solid State
24 VAC Input
24 VAC Output
8 Second Arming Delay
3 Second Flush Delay
24-Hour Sentinel Flush

OPTIMA® Sensor Range

Nominal 22" - 42" (559 mm - 1067 mm)
Self-adaptive Window: ± 10" (254 mm)

Solenoid Operator

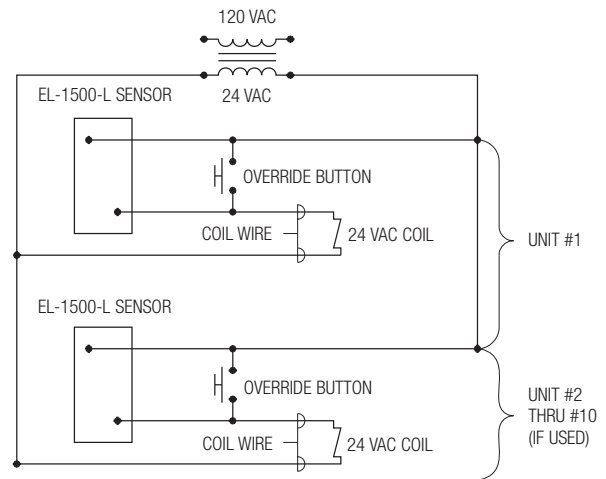
24 VAC, 50/60 Hz

Transformer

Sloan Part #EL-154
120 VAC, 50/60 Hz Primary
24 VAC, 50/60 Hz Secondary
Class II, UL Listed, 50 VA.

Sloan Part #EL-342

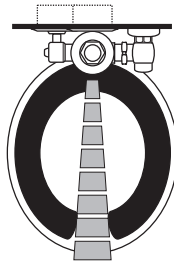
240 VAC, 50/60 Hz Primary
24 VAC, 50/60 Hz Secondary
Class II, UL Listed, 50 VA.



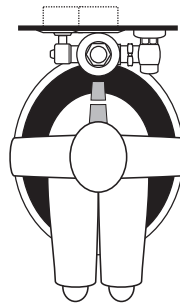
One Transformer serves up to ten (10) OPTIMA Closet/Urinal Flushometers. Specify number of transformers required accordingly.

OPERATION

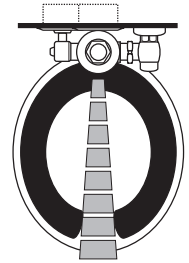
1. A continuous, invisible light beam is emitted from the OPTIMA® Sensor.



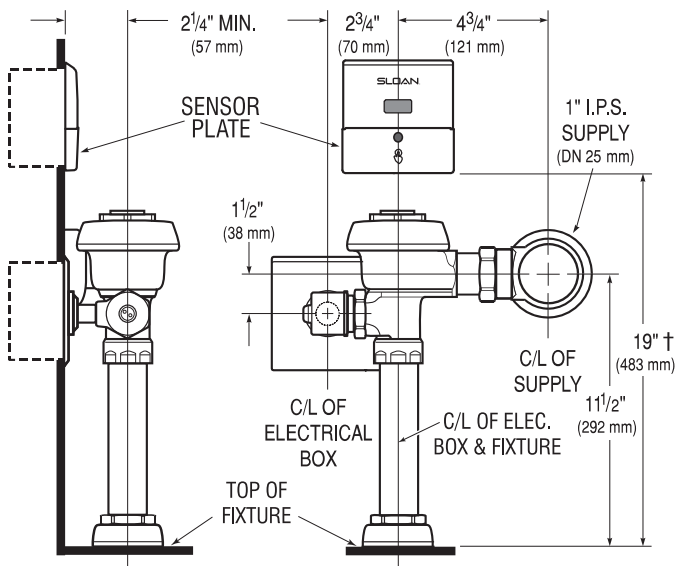
2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA® Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.



3. When the user steps away from the OPTIMA Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical "one-time" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.



ROUGH-IN

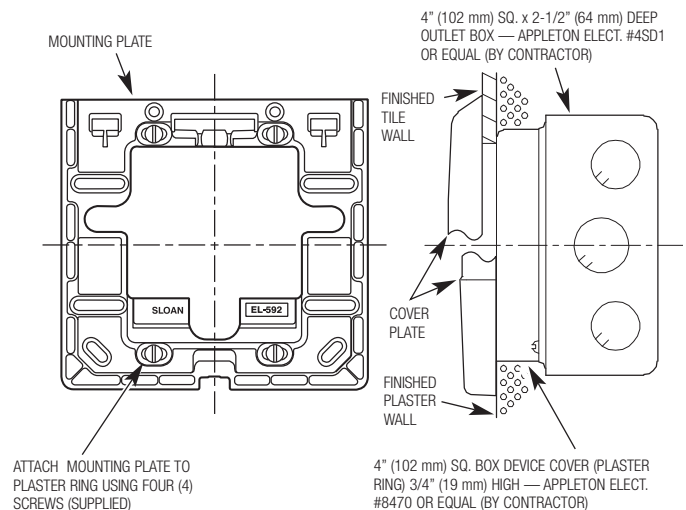


† Position of Sensor Box can be raised or lowered 1" (25 mm) if in conflict with Handicap Grab Bars.

ELECTRICAL BOX INSTALLATION

SENSOR LOCATION AND POSITIONING IS CRITICAL

Failure to properly position the electrical boxes to the plumbing rough-in will result in improper installation and impair product performance. All tradesmen (plumbers, electricians, tile setters, etc.) involved with the installation of this product must coordinate their work to assure proper product installation. Installation Template furnished with Flushometer.



To ensure a perfect rough-in, Sloan recommends the use of the EL-485-A Flushometer Electrical Box Positioning and Support Kit. Specify and order the EL-485-A Kit separately. When using the EL-485-A kit, the Solenoid Plate roughs in at the Urinal location. Consult factory for installation details.

SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131

Phone: 1-800-982-5839 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • www.sloanvalve.com

**AFWALL® FloWise® ELONGATED TOILET
with EVERCLEAN®**

- Wall-mounted flushometer valve toilet
- Vitreous china
- High Efficiency, Low Consumption. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.28 gpf or 1.6 / 1.1 gpf dual flush)
- Permanent EverClean® surface inhibits the growth of stain- and odor-causing bacteria, mold, and mildew on the surface
- Condensation channel
- Elongated bowl
- Powerful direct-fed siphon jet action
- 1-1/2" inlet spud
- Fully-glazed 2-1/8" trapway
- 10" x 12" water surface area
- 100% factory flush tested

3351.001 Elongated bowl only, top spud

3352.001 Elongated bowl only, top spud with slotted rim for bedpan holding (White only)

3353.001 Elongated bowl only, back spud

3354.001 Elongated bowl only, back spud with slotted rim for bedpan holding (White only)

System MaP* Score:

- 1,000 grams of miso @ 1.6 gpf or 1.28 gpf when used with an American Standard flush valve

* Maximum Performance (MaP) testing performed by IAPMO R&T Lab. MaP Report conducted by Veritec Consulting, Inc. and Koeller and Company.

Component Parts:

- ☐ **047007-0070A** Inlet Spud (furnished with bowl)

Nominal Dimensions:

660 x 356 x 381mm
(26" x 14" x 15")

Recommended working pressure—between
25 psi at valve when flushing and 80 psi static

Fixture only, less seat, bolt caps, and
flushometer valve

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2-2008/CSA B45.1-08 for Vitreous China Fixtures



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES
AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE
BUILDING FACILITIES - CHECK LOCAL CODES.

- When installed so top of seat is 432 to 483mm (17" to 19") from the finished floor.



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

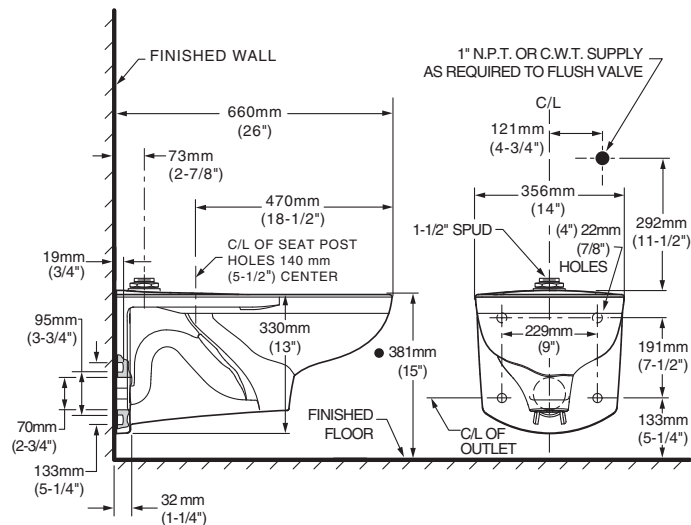
To Be Specified:

- ☐ Color: ☐ White ☐ Bone ☐ Linen
- ☐ Seat:
 - ☐ American Standard #5901.100 Heavy duty open front less cover
 - ☐ American Standard #5905.100 Extra heavy duty open front less cover
- ☐ Flushometer Valve:
 - ☐ 1.6 gpf:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.161.002 (Top Spud)
 - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.262.002 (Back Spud)
 - ☐ Manual: American Standard #6047.161.002 (Top Spud)
 - ☐ 1.28 gpf:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.121.002 (Top Spud)
 - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.222.002 (Back Spud)
 - ☐ Manual: American Standard #6047.121.002 (Top Spud)
 - ☐ 1.6 / 1/1 gpf Dual Flush:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.761.002 (Top Spud)

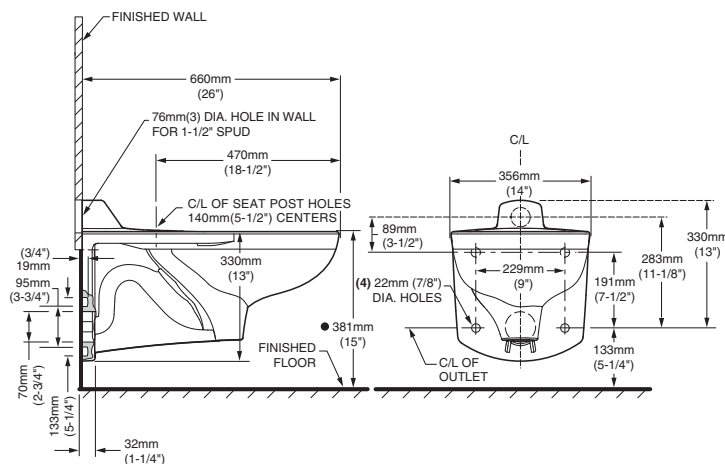
EVERCLEAN®
Surface



3351.001/3352.001



3353.001/3354.001



NOTES:

- Toilet designed to meet ADA accessibility standards when top of seat height set at 432 to 483mm (17" to 19") from finished floor.

PRODUCT 3351 AND 3353 SHOWN, 3352 AND 3354 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.

WASTE OUTLET SEAL RING MUST BE NEOPRENE OR GRAPHITE-FELT (WAX RING NOT RECOMMENDED).

SUGGESTED 2mm (1/16) CLEARANCE BETWEEN FACE OF WALL AND BACK OF BOWL.

TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.

DIMENSIONS SHOWN FOR SOFT LEAD SOLDERING.
FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE
ORDERED SEPARATELY.

CARRIER FITTING AS REQUIRED TO BE FURNISHED BY OTHERS.
PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORT.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages

OPTIONS

Flush Volume

- 1.6 gpf (6.0 Lpf) (1.6)
- 1.28 gpf (4.8 Lpf) (1.28)
- 3.5 gpf (13.2 Lpf) (3.5)

Water Efficiency

- Low Consumption
- High Efficiency
- Water Saver

Bypass

- Dual-Filtered Fixed Bypass Diaphragm (DFB)

L Dimension

- 2"-10 3/4" (51-273mm) (2-10-3/4-LDIM)
- 13"-14 3/4" (330-375mm) (13-14-3/4-LDIM)
- 11"-12 3/4" (279-324mm) (11-12-3/4-LDIM)

Override

- Electrical (OR)
- True Mechanical (TMO)

Wall Box

- Front Accessible
- Small (SWB)
- With (W/BOX)
- Standard (not included, order separately)

Control Stop

- Less (L/STOP)

Compliances & Certifications

- BAA Compliant
- UL Certified
- ADA Compliant
- cUPC Certified
- BREEAM Water Credit
- Green Globes Water Credit
- CalGreen Compliant
- LEED V4 Water Efficiency Credit
- WaterSense Listed
- cUPC Green Certified

NOTES

For product line drawings, [view model-specific spec sheets](#).

All information contained within this document subject to change without notice.



DESCRIPTION

Sloan® Concealed Sensor Hardwired Water Closet Flushometer

FEATURES

- Flush volumes start as low as 1.6 gpf/6.0 Lpf;
- Water conservation is aided by the ADA-compliant, non-hold-open handle;
- Flush accuracy is controlled by CID™ technology, also enhancing water efficiency;
- Durability is facilitated with high copper, low zinc brass castings for dezincification resistance;
- Adjustable tailpiece to accommodate different height requirements.
- High chloramine resistant PERMEX synthetic rubber diaphragm with Linear Filtered Bypass and Vortex Cleansing Action
- Valve body, Cover, Tailpiece and Control Stop shall be in compliance with ASTM Alloy Classification for Semi-Red Brass
- Valve shall be in compliance to the applicable sections of ASSE 1037.

DOWNLOADS

- [Sloan 152/195 ESS TMO Installation Instructions](#)
- [Sloan Concealed Installation Instructions](#)
- [Sloan Concealed Spanish Installation Instructions](#)
- [Sloan/Regal ESS Repair and Maintenance Guide](#)
- [Additional Downloads](#)

VIDEOS

-  [ESS Flushometer](#)

American Standard

Style That Works Better

 BARRIER FREE

**MADERA™ FloWise® 15" HEIGHT
with EVERCLEAN®**

- Floor mount flushometer valve toilet
- Vitreous china
- Meets definition for HET (High Efficiency Toilet)
- High Efficiency (4.8 Lpf/1.28 gpf)
- Will also function at 1.1gpf and 1.6gpf with a properly set dual flush valve
- EverClean® surface inhibits the growth of stain- and odor-causing bacteria, mold, and mildew on the surface
- Fully glazed 2-1/8" trapway
- Elongated bowl
- 10" or 12" roughing-in
- 15" rim height
- Condensation channel
- Powerful direct-fed siphon jet action
- 10" x 12" water surface area
- 1-1/2" inlet spud
- 2 bolt caps
- 100% factory flush tested

- ☐ **3451.128** Elongated bowl only, top spud
- ☐ **3451.001** Same as above, Universal Bowl
- ☐ **3452.128** Elongated bowl only, top spud with slotted rim for bedpan holding (White only)
- ☐ **3452.001** Same as above, Universal Bowl
- ☐ **3453.128** Elongated bowl only, back spud
- ☐ **3453.001** Same as above, Universal Bowl
- ☐ **3455.128** Elongated bowl only, back spud with slotted rim for bedpan holding (White only)
- ☐ **3455.001** Same as above, Universal Bowl

Component Parts:

- ☐ **047007-0070A** Inlet Spud (furnished with bowl)
- ☐ **481310-100** Bolt caps with retainers (furnished with bowl)

Nominal Dimensions:

718 x 356 x 381mm (28-1/4" x 14" x 15")

Recommended working pressure—between 25 psi at valve when flushing and 80 psi static

Fixture only, less flushometer valve and seat

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2-2008 / CSA B45.1-08 for Vitreous China Fixtures

**MADERA™ FloWise® 15" HEIGHT
1.28 GPF FLUSHOMETER TOILET**
VITREOUS CHINA with EVERCLEAN®



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:

- ☐ Color: ☐ White ☐ Bone ☐ Linen ☐ Black
- ☐ Seat:
 - ☐ American Standard #5901.100 Heavy duty open front less cover
 - ☐ American Standard #5905.100 Extra heavy duty open front less cover
- ☐ Flushometer Valve:
 - ☐ American Standard Selectronic™ #6065.121.002 DC Power (Top Spud)
 - ☐ American Standard Selectronic™ #6065.221.007 DC Power (Back Spud)
 - ☐ American Standard Selectronic™ #6067.221.007 AC Power (Back Spud)
 - ☐ American Standard Selectronic™ #6068.221.007 Multi AC Power (Back Spud)

EVERCLEAN®
Surface

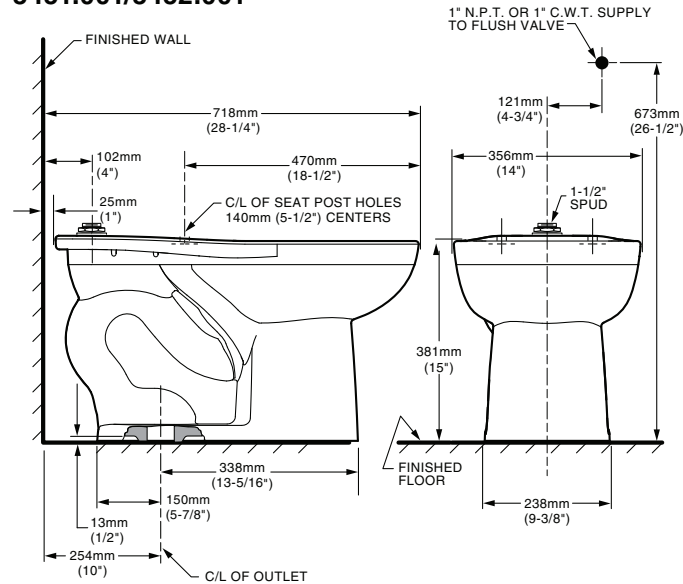


American Standard

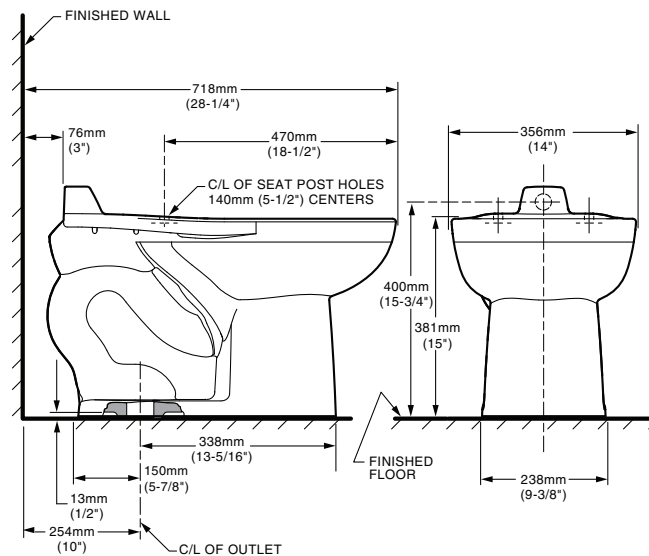
Style That Works Better

**MADERA™ FloWise® 15" HEIGHT
1.28 GPF FLUSHOMETER TOILET**
VITREOUS CHINA with EVERCLEAN®

**3451.128/3452.128
3451.001/3452.001**



**3453.128/3455.128
3453.001/3455.001**



NOTES:

PRODUCT 3451 AND 3453 SHOWN, 3452 AND 3455 SAME AS EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.

TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.

THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 254MM (10") AND A MAXIMUM DIMENSION OF 305MM (12") FROM FINISHED WALL TO C/L OF OUTLET.

FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY. FLUSHOMETER VALVE REQUIREMENTS FOR 12" (305MM) ROUGH-IN: SWEAT EXTENSION NIPPLE IS REQUIRED. REFER TO VALVE MANUFACTURER AND LOCAL CODES.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

110/111 ES-S

► Description

Exposed, Sensor Activated Royal[®] Model Water Closet Flushometer, for floor mounted or wall hung top spud bowls.

► Flush Cycle

- ☐ Model 111-1.6 ES-S Low Consumption (1.6 gpf/6.0 Lpf)
- ☐ Model 110 ES-S Water Saver (3.5 gpf/13.2 Lpf)

► Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer with the following features:

- PERMEX[™] Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- OPTIMA[®] EL-1500-L Self-Adaptive Infrared Sensor with Indicator Light
- User friendly three (3) second Flush Delay
- Courtesy Flush[™] Override Button
- Non-Hold-Open Integral Solenoid Operator
- Die Cast Sensor Plate with no visible Fasteners (for 2-gang Electrical Box)
- Die Cast Solenoid Wall Cover Plate with no visible Fasteners (for 2-gang Electrical Box)
- 1. I.P.S. Screwdriver Bak-Chek[®] Angle Stop
- Free Spinning Vandal Resistant Stop Cap
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 1½" Top Spud
- Sweat Solder Adapter w/Cover Tube and Cast Wall Flange w/Set Screw
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Flush Accuracy Controlled by CID[™] Technology
- Diaphragm, Stop Seat and Vacuum Breaker molded from PERMEX[™] Rubber Compound for Chloramine Resistance

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037 and ANSI/ASME A112.19.2. Installation conforms to ADA requirements.

► Variations

- ☐ **TP** Trap Primer
- ☐ **YG** Extended Bumper on Angle Stop (for seat with cover)
- ☐ **YO** Bumper on Angle Stop (for open seat without cover)

► Accessories

- ☐ **EL-154** Transformer (120 VAC/24 VAC 50 VA)
- ☐ **EL-342** Transformer (240 VAC/24 VAC 50 VA)
- ☐ **EL-485-A** Flushometer Electrical Box Positioning and Support Kit

See Accessories Section and OPTIMA[®] Accessories Section of the Sloan catalog for details on these and other OPTIMA[®] Flushometer variations.

► Fixtures

Consult Sloan for Sloan brand matching fixture options.



► Automatic

Sloan OPTIMA[®] equipped Flushometers provide the ultimate in sanitary protection and automatic operation. There are no handles to trip or buttons to push. The Flushometer operates by means of an infrared sensor that adapts to its surrounding. Once the user enters the sensor's effective range and then steps away, the Flushometer Solenoid initiates the flushing cycle to flush the fixture.

► Hygienic

User makes no physical contact with the Flushometer surface except to initiate the Override Button when required. Helps control the spread of infectious diseases. 24-Hour Sentinel Flush keeps fixture fresh during periods of nonuse.

► Economical

Automatic operation provides water usage savings over other flushing devices. Reduces maintenance and operation costs.

► Practical

Solid state electronic circuitry assures years of dependable, trouble-free operation. The operational components of the Flushometer are identical to a handle activated Royal[®] Flushometer, proven by over 100 years of experience.

► Warranty

3 year (limited)

This space for Architect/Engineer approval

Job Name _____	Date _____
Model Specified _____	Quantity _____
Variations Specified _____	
Customer/Wholesaler _____	
Contractor _____	
Architect _____	

The information contained in this document is subject to change without notice.

Sloan Electronics are:



Description

Exposed, Sensor Activated Royal® Model Water Closet Flushometer, for floor mounted or wall hung top spud bowls.

Flush Cycle

- Model 111 ES-S Low Consumption (1.6 gpf/6.0 Lpf)
- Model 110 ES-S Water Saver (3.5 gpf/13.2 Lpf)

ELECTRICAL SPECIFICATIONS

Control Circuit

Solid State
24 VAC Input
24 VAC Output
8 Second Arming Delay
3 Second Flush Delay
24-Hour Sentinel Flush

OPTIMA® Sensor Range

Nominal 22" - 42" (559 mm - 1067 mm)
Self-adaptive Window: ± 10" (254 mm)

Solenoid Operator

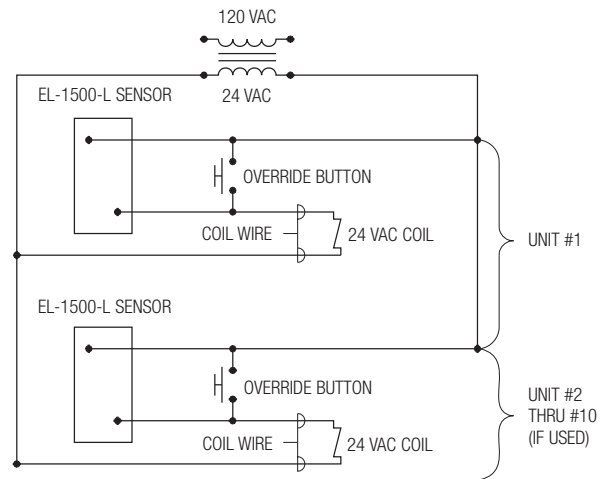
24 VAC, 50/60 Hz

Transformer

Sloan Part #EL-154
120 VAC, 50/60 Hz Primary
24 VAC, 50/60 Hz Secondary
Class II, UL Listed, 50 VA.

Sloan Part #EL-342

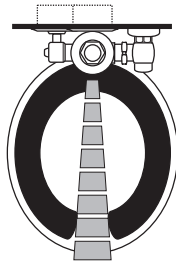
240 VAC, 50/60 Hz Primary
24 VAC, 50/60 Hz Secondary
Class II, UL Listed, 50 VA.



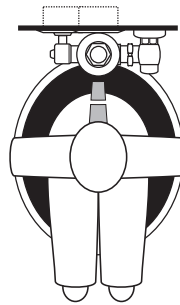
One Transformer serves up to ten (10) OPTIMA Closet/Urinal Flushometers. Specify number of transformers required accordingly.

OPERATION

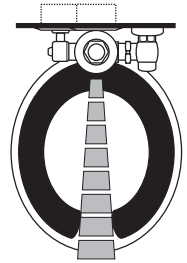
1. A continuous, invisible light beam is emitted from the OPTIMA® Sensor.



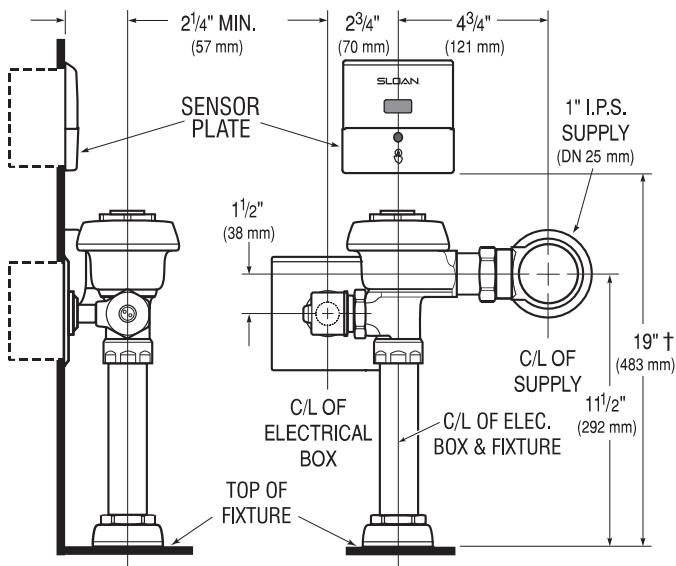
2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA® Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.



3. When the user steps away from the OPTIMA Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical "one-time" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.



ROUGH-IN

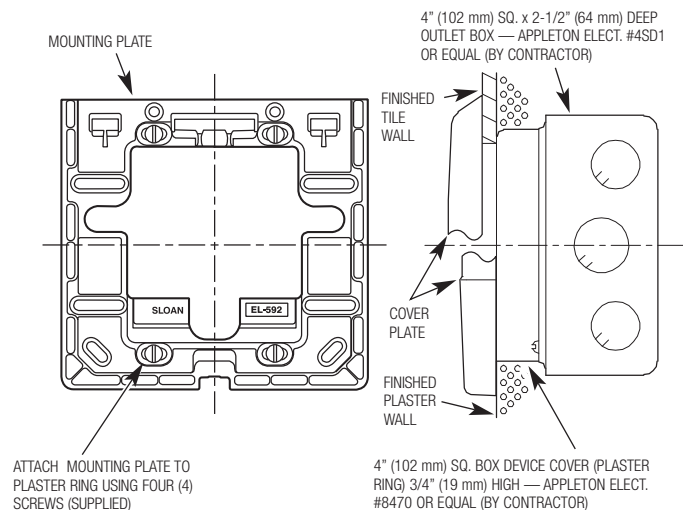


† Position of Sensor Box can be raised or lowered 1" (25 mm) if in conflict with Handicap Grab Bars.

ELECTRICAL BOX INSTALLATION

SENSOR LOCATION AND POSITIONING IS CRITICAL

Failure to properly position the electrical boxes to the plumbing rough-in will result in improper installation and impair product performance. All tradesmen (plumbers, electricians, tile setters, etc.) involved with the installation of this product must coordinate their work to assure proper product installation. Installation Template furnished with Flushometer.



To ensure a perfect rough-in, Sloan recommends the use of the EL-485-A Flushometer Electrical Box Positioning and Support Kit. Specify and order the EL-485-A Kit separately. When using the EL-485-A kit, the Solenoid Plate roughs in at the Urinal location. Consult factory for installation details.

SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131

Phone: 1-800-982-5839 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • www.sloanvalve.com

**AFWALL® FloWise® ELONGATED TOILET
with EVERCLEAN®**

- Wall-mounted flushometer valve toilet
- Vitreous china
- High Efficiency, Low Consumption. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.28 gpf or 1.6 / 1.1 gpf dual flush)
- Permanent EverClean® surface inhibits the growth of stain- and odor-causing bacteria, mold, and mildew on the surface
- Condensation channel
- Elongated bowl
- Powerful direct-fed siphon jet action
- 1-1/2" inlet spud
- Fully-glazed 2-1/8" trapway
- 10" x 12" water surface area
- 100% factory flush tested

3351.001 Elongated bowl only, top spud

3352.001 Elongated bowl only, top spud with slotted rim for bedpan holding (White only)

3353.001 Elongated bowl only, back spud

3354.001 Elongated bowl only, back spud with slotted rim for bedpan holding (White only)

System MaP* Score:

- 1,000 grams of miso @ 1.6 gpf or 1.28 gpf when used with an American Standard flush valve

* Maximum Performance (MaP) testing performed by IAPMO R&T Lab. MaP Report conducted by Veritec Consulting, Inc. and Koeller and Company.

Component Parts:

- ☐ **047007-0070A** Inlet Spud (furnished with bowl)

Nominal Dimensions:

660 x 356 x 381mm
(26" x 14" x 15")

Recommended working pressure—between
25 psi at valve when flushing and 80 psi static

Fixture only, less seat, bolt caps, and
flushometer valve

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2-2008/CSA B45.1-08 for Vitreous China Fixtures



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES
AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE
BUILDING FACILITIES - CHECK LOCAL CODES.

- When installed so top of seat is 432 to 483mm (17" to 19") from the finished floor.



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

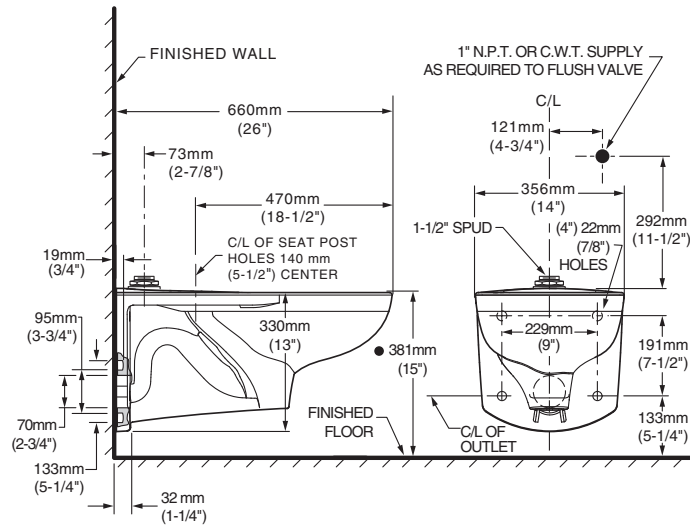
To Be Specified:

- ☐ Color: ☐ White ☐ Bone ☐ Linen
- ☐ Seat:
 - ☐ American Standard #5901.100 Heavy duty open front less cover
 - ☐ American Standard #5905.100 Extra heavy duty open front less cover
- ☐ Flushometer Valve:
 - ☐ 1.6 gpf:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.161.002 (Top Spud)
 - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.262.002 (Back Spud)
 - ☐ Manual: American Standard #6047.161.002 (Top Spud)
 - ☐ 1.28 gpf:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.121.002 (Top Spud)
 - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.222.002 (Back Spud)
 - ☐ Manual: American Standard #6047.121.002 (Top Spud)
 - ☐ 1.6 / 1/1 gpf Dual Flush:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.761.002 (Top Spud)

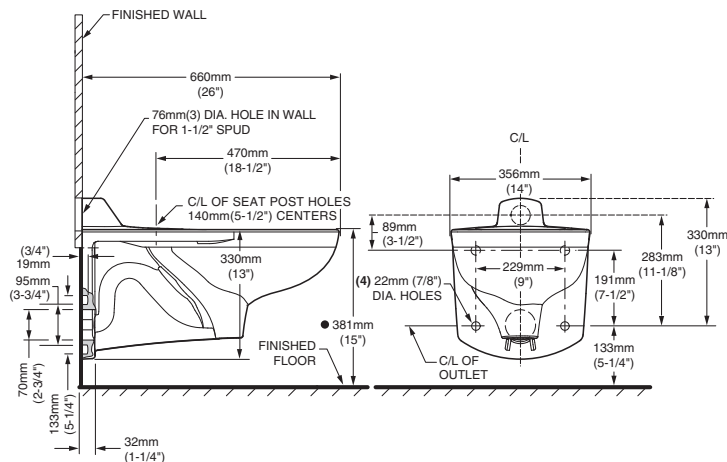
EVERCLEAN®
Surface



3351.001/3352.001



3353.001/3354.001



NOTES:

● Toilet designed to meet ADA accessibility standards when top of seat height set at 432 to 483mm (17" to 19") from finished floor.

PRODUCT 3351 AND 3353 SHOWN, 3352 AND 3354 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.

WASTE OUTLET SEAL RING MUST BE NEOPRENE OR GRAPHITE-FELT (WAX RING NOT RECOMMENDED).

SUGGESTED 2mm (1/16) CLEARANCE BETWEEN FACE OF WALL AND BACK OF BOWL.

TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.

FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY.

CARRIER FITTING AS REQUIRED TO BE FURNISHED BY OTHERS.

PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORT.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2.

These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages

OPTIONS

Flush Volume

- 1.6 gpf (6.0 Lpf) (1.6)
- 1.28 gpf (4.8 Lpf) (1.28)
- 3.5 gpf (13.2 Lpf) (3.5)

Water Efficiency

- Low Consumption
- High Efficiency
- Water Saver

Bypass

- Dual-Filtered Fixed Bypass Diaphragm (DFB)

L Dimension

- 2"-10 3/4" (51-273mm) (2-10-3/4-LDIM)
- 13"-14 3/4" (330-375mm) (13-14-3/4-LDIM)
- 11"-12 3/4" (279-324mm) (11-12-3/4-LDIM)

Override

- Electrical (OR)
- True Mechanical (TMO)

Wall Box

- Front Accessible
- Small (SWB)
- With (W/BOX)
- Standard (not included, order separately)

Control Stop

- Less (L/STOP)

Compliances & Certifications

- BAA Compliant
- UL Certified
- ADA Compliant
- cUPC Certified
- BREEAM Water Credit
- Green Globes Water Credit
- CalGreen Compliant
- LEED V4 Water Efficiency Credit
- WaterSense Listed
- cUPC Green Certified

NOTES

For product line drawings, [view model-specific spec sheets](#).

All information contained within this document subject to change without notice.



DESCRIPTION

Sloan® Concealed Sensor Hardwired Water Closet Flushometer

FEATURES

- Flush volumes start as low as 1.6 gpf/6.0 Lpf;
- Water conservation is aided by the ADA-compliant, non-hold-open handle;
- Flush accuracy is controlled by CID™ technology, also enhancing water efficiency;
- Durability is facilitated with high copper, low zinc brass castings for dezincification resistance;
- Adjustable tailpiece to accommodate different height requirements.
- High chloramine resistant PERMEX synthetic rubber diaphragm with Linear Filtered Bypass and Vortex Cleansing Action
- Valve body, Cover, Tailpiece and Control Stop shall be in compliance with ASTM Alloy Classification for Semi-Red Brass
- Valve shall be in compliance to the applicable sections of ASSE 1037.

DOWNLOADS

- [Sloan 152/195 ESS TMO Installation Instructions](#)
- [Sloan Concealed Installation Instructions](#)
- [Sloan Concealed Spanish Installation Instructions](#)
- [Sloan/Regal ESS Repair and Maintenance Guide](#)
- [Additional Downloads](#)

VIDEOS

-  [ESS Flushometer](#)

**Washbrook® FloWise®
Universal Urinal**

- Vitreous china
- Ultra High Efficiency, Low Consumption. Operates in the range of 0.125gpf to 1.0gpf (0.5 Lpf to 3.8 Lpf)
- Flushing rim
- Elongated 14" rim from finished wall
- Washout flush action
- Extended sides for privacy
- 3/4" inlet spud
- Outlet connection threaded 2" inside (NPTF)
- 2 wall hangers
- Fixture only
- Strainer included
- Meets ASME flush requirements at 0.125 to 1.0 gpf

- ☐ **6590.001** Universal Top spud
- ☐ **6515.001** Universal Back spud

Nominal Dimensions:

360 x 480 x 664mm
(14-1/8" x 18-7/8" x 26-1/8")

Recommended working pressure – between
20 psi at valve when flushing and 80 psi static

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2-2008/CSA B45.1-08 for Vitreous China Fixtures



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:

- ☐ Color: ☐ White
- ☐ Flush Valve:
 - 1.0 gpf Flush Valve: Sensor-Operated:
 - ☐ American Standard Selectronic® #6063.101.002 DC Power (Top Spud)
 - ☐ American Standard Selectronic® #6062.101.002 AC Power (Back Spud)
 - 1.0 gpf Flush Valve: Manual-Operated:
 - ☐ American Standard # 6045.101.002
 - 0.5 gpf Flush Valve: Sensor-Operated:
 - ☐ American Standard Selectronic® #6063.051.002 DC Power (Top Spud)
 - ☐ American Standard Selectronic® #6062.051.002 AC Power (Back Spud)
 - 0.5 gpf Flush Valve: Manual-Operated:
 - ☐ American Standard #6045.051.002
 - 0.125 gpf Flush Valve: Sensor-Operated:
 - ☐ American Standard Selectronic® #6063.013.002 DC Power (Top Spud)
 - ☐ American Standard Selectronic® #6062.013.002 AC Power (Back Spud)
 - 0.125 gpf Flush Valve: Manual-Operated:
 - ☐ American Standard #6045.013.002



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES
AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND
FACILITIES - CHECK LOCAL CODES.

- When installed so top of rim is 432mm (17") MAXIMUM from finished floor.



When used with
0.125 gpf
urinal flush valve

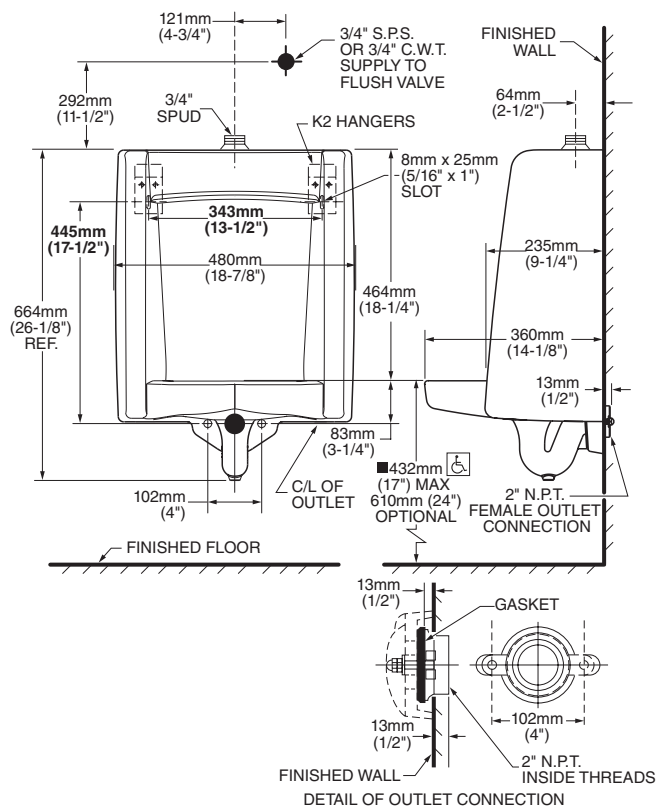


When used with
0.125 or 0.5 gpf
urinal flush valve

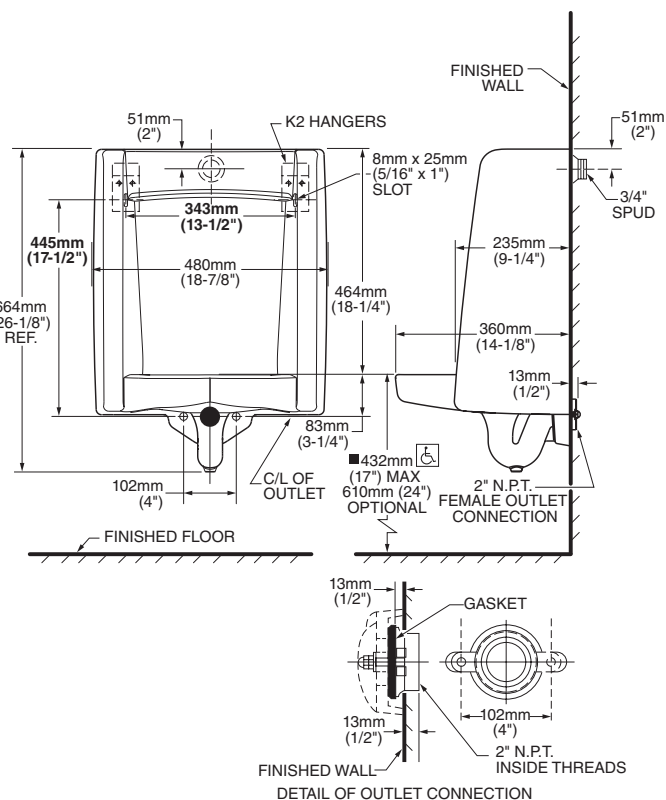


ADA
COMPLIANT

6590.001 TOP SPUD



6515.001 BACK SPUD



 MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES
AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND
FACILITIES - CHECK LOCAL CODES.

• When installed so top of rim is 432mm (17") MAXIMUM from finished floor.

NOTES:

FLUSH VALVE NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.

IMPORTANT: Dimensions of fixtures are nominal and may vary within
the range of tolerances established by ANSI Standard A112.19.2. These
measurements are subject to change or cancellation. No responsibility is
assumed for use of superseded or voided pages.

CODE NUMBER

3452674

DESCRIPTION

0.5 gpf, Polished Chrome Finish, Single Flush, Hardwired, Sensor-Operated, Royal® Exposed Sensor Hardwired Urinal Flushometer.

DETAILS

- Flush Volume: 0.5 gpf (1.9 Lpf)
- Finish: Polished Chrome (CP)
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Urinal
- Fixture Connection: Top spud
- Rough-In Dimension: 11 1/2" (292mm)
- Spud Coupling: 3/4" (19mm)
- Supply Pipe: 3/4" (19mm)

FEATURES

Quiet, Exposed, Dual Filtered Diaphragm Assembly, Chrome Plated Urinal

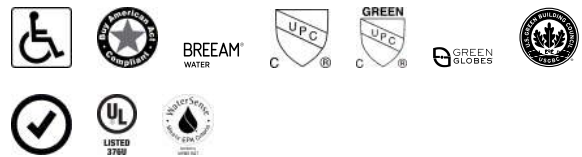
- Sweat Solder Adapter w/Cover Tube and Cast Wall Flange w/Set Screw
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- High Back Pressure Vacuum Breaker Flush Connection with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 3/4" Top Spud
- Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine Resistance
- 3/4" I.P.S. Screwdriver Bak-Chek® Angle Stop with Vandal Resistant Stop Cap
- Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection

VIDEOS

- ▶ ESS Flushometer
- ▶ PVD Special Finishes



COMPLIANCES & CERTIFICATIONS



(ADA Compliant, BAA Compliant, BREEAM Water Credit, cUPC Certified, cUPC Green Certified, Green Globes Water Credit, LEED V4 Water Efficiency Credit, Satisfies LEED Credits, UL Certified, WaterSense Listed)

RECOMMENDED SPECIFICATION

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi- Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037 and ANSI/ASME 112.19.2.

ELECTRICAL SPECIFICATIONS

- Arming Delay: 8 seconds
- Control Circuit: Solid State/24 VAC Input/24 VAC Output
- Self-Adaptive Window: ±8
- Sensor Range: 15" - 30" (381 - 762mm)
- Solenoid Operator: 24 VAC

VALVE OPERATING PRESSURE (FLOWING)

15-80 PSI (103-552 kPa). Specific fixtures may require greater minimum flowing pressure - consult manufacturer requirements.

DOWNLOADS

- [Royal ESS TMO Installation Instructions](#)
- [Royal ESS Concealed and Exposed Installation Instructions](#)
- [Control Stop Repair and Maintenance Guide](#)
- [Flush Connections Flanges Repair and Maintenance Guide](#)
- [Tail Piece Repair and Maintenance Guide](#)
- [Optima ESS Repair and Maintenance Guide](#)
- [Additional Downloads](#)

NOTES

All information contained within this document subject to

Sloan 10500 Seymour Ave, Franklin Park, IL 60131

Phone: 800.982.5839 • Fax: 800.447.8329 • sloan.com

change without notice.

Looking for other variations of the ROYAL 186 ESS product?

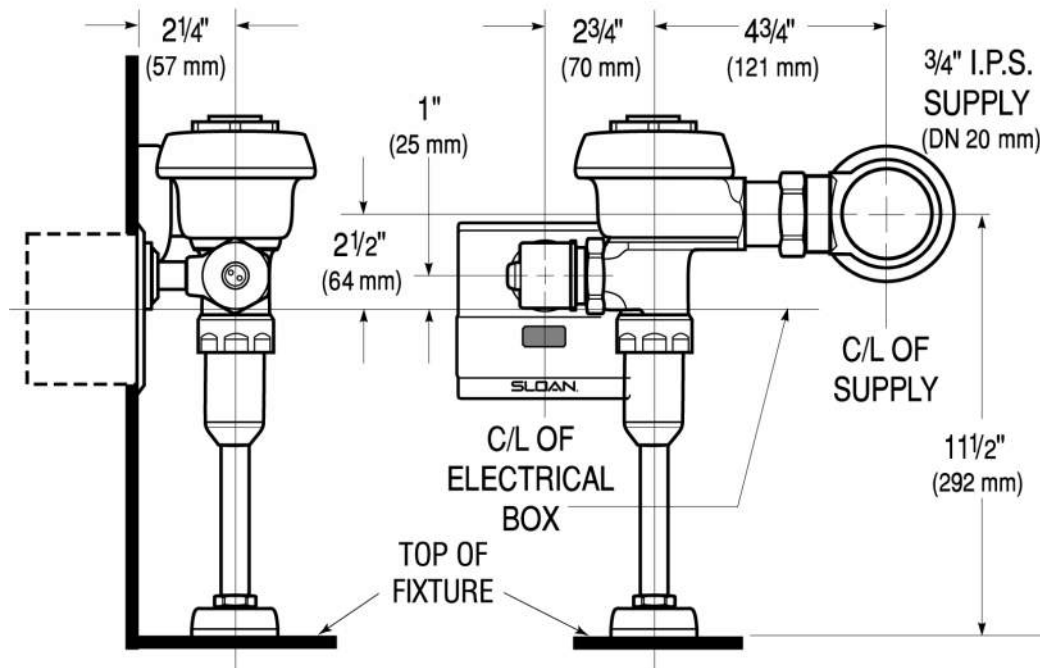
[View the general spec sheet with all options.](#)

[Find a compatible urinal](#) for this flushometer.

[Find a compatible water closet](#) for this flushometer.

ROUGH-IN

186



Sloan 10500 Seymour Ave, Franklin Park, IL 60131

Phone: 800.982.5839 • Fax: 800.447.8329 • sloan.com

OVALYN UNIVERSAL ACCESS™
UNDERCOUNTER SINK
VITREOUS CHINA

OVALYN UNIVERSAL ACCESS™ SINK

- Made from vitreous china
- Unglazed rim for under counter mount
- Rear overflow
- Supplied with mounting kit (047194-0070A) and template

 9482.000

Nominal Dimensions:

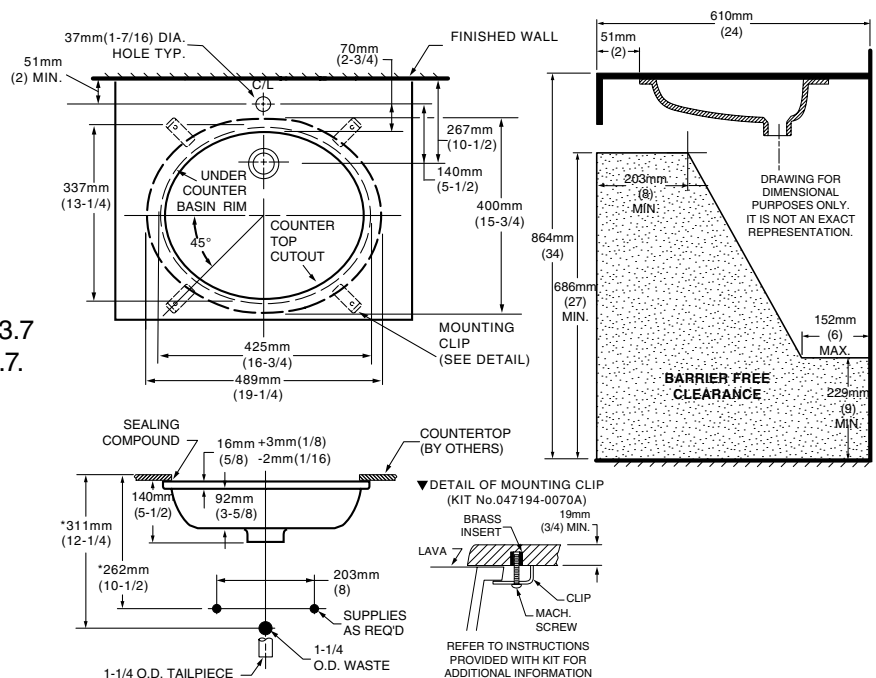
489 x 400mm
(19-1/4" x 15-3/4")

Bowl sizes:

425mm (16-3/4") wide
337mm (13-1/4") front to back
140mm (5-1/2") deep
102mm (4") bowl depth

**Compliance Certifications -
Meets or Exceeds the
Following Specifications:**

- ASME A112.19.2M for Vitreous China Fixtures
- CAN/CSA B45 series
- 1995 National Building Code, section 3.7 and CAN/CSA-B651-M90 and OBC 3.7.



To Be Specified:

- ☐ Color: ☐ White ☐ Bone
 - ☐ Linen ☐ Silver
 - ☐ Fawn Beige ☐ Black
- ☐ Faucet*:
- ☐ Faucet Finish:
- ☐ Supplies:
- ☐ 1-1/4" Trap:

* See faucet section for additional models available

For Universal Design Options, top of counter may be mounted at 813mm (32") minimum from finished floor to meet ADA and ANSI A117.1 requirements. A 838mm (33") minimum mounting height is required for Ontario. Check local codes for heights and faucet handles requirements.



**MEETS THE AMERICANS WITH DISABILITIES ACT
GUIDELINES AND ANSI A117.1 ACCESSIBLE AND
USABLE BUILDINGS AND FACILITIES -
CHECK LOCAL CODES.**

Countertop 864mm (34") from finished floor. Lavatory installed 51mm (2") MIN. from front edge of countertop. Countertop thickness to be 25mm (1") maximum.

NOTES:

* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIED AND "P" TRAP ARE SUGGESTED.

▼ UNDERCOUNTER MOUNTING KIT SUPPLIED WITH BASIN.
FITTINGS NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED
SEPARATELY.
USE ENCLOSED TEMPLATE FOR COUNTERTOP CUTOUT
SEALING COMPOUND SUPPLIED BY OTHERS.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

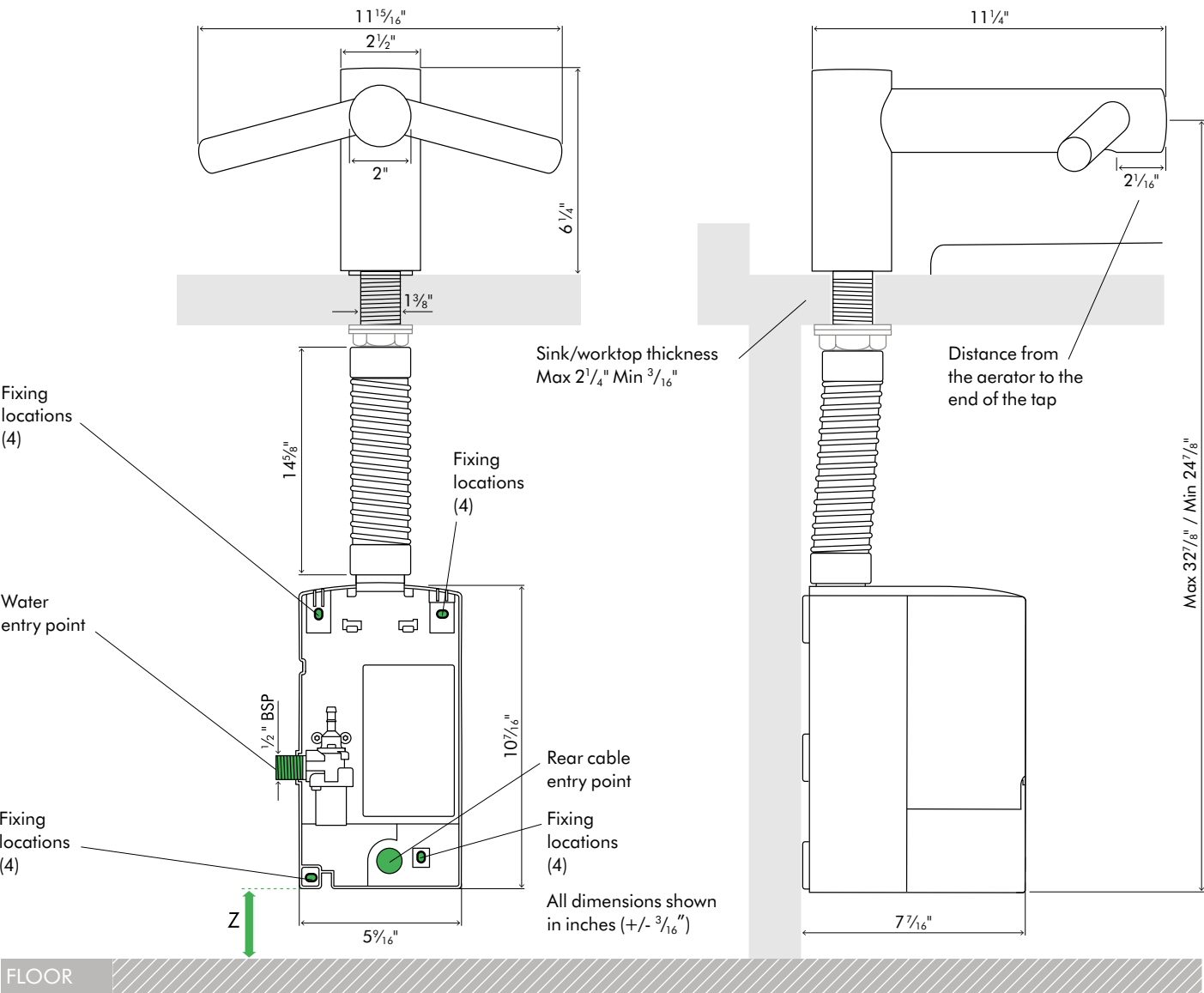
TECHNICAL SPECIFICATION

WD WD WD
04 05 06



FRONT ELEVATION

SIDE ELEVATION



Tap dimensions

WD04 Height 6 1/4" Width 11 15/16" Depth 11 1/4"

Motor bucket dimensions

WD04 Height 10 7/16" Width 5 9/16" Depth 7 7/16"

Minimum clearance

Z 4" clearance from floor. (ADA requires 9" toe clearance).

TECHNICAL SPECIFICATION

WD WD WD
04 05 06

Electrical

Input voltage/Frequency: 100-110V 50-60Hz; 120V 60Hz

Motor specification: 1000W digital brushless motor

Operating temperature range: 0°-40°C, 32°- 104°F

Heater type: None

Standby power consumption: Less than 0.5 W

Construction

Tap construction: Stainless steel (brushed)

Under counter motor assembly construction: Moulded ABS (main unit)

Exterior screw type: Torx T15

Water ingress protection to IP35

Filter

HEPA filter (glass fiber and fleece prelayer)

Capture 99.97% of particles the size of bacteria as small as 0.3 microns from the washroom air.

Operation

Touch-free infra-red activation

Hand dry time measurement: 14 seconds¹

Operation lock-out period: 30 seconds

Airspeed at apertures: 533 km/h/ 331 mph

Maximum altitude: 6,562 ft. / 2,000 meters

Water operation

Water flow rate: 1.9 lpm low flow fitted aerator.

3.8 lpm with aerator supplied with product.

Water temperature control: Thermostatic mixer recommended (not supplied)

Water pressure required: 1-8 bar

Equipped with automatic flush – every 24 hours for 60 seconds after the last use.

Logistics

Net weight: WD04 9.39 lb; WD05 10.01lb; WD06 20.97lb

Packaged weight: WD04 14.90lb; WD05 16.27lb; WD06 30.09lb

Packaged dimensions: WD04 H11⁷/₈" × W11¹/₈" × D11¹/₂"
WD05 H17" × W10⁷/₈" × D11⁵/₁₆"
WD06 H24" × W14³/₄" × D11⁷/₈"

Sink specification

The Dyson Airblade Wash+Dry hand dryer is compatible with most sink types. Ensure plugs are not installed in the sinks and avoid inserts with embedded plugs (e.g. ones that swivel or elevate).

Using a specially designed test method, Dyson engineers evaluated the user experience of a wide range of sink types when used with the Dyson Airblade Wash+Dry hand dryer. For further details on our recommended sinks, please see the guide on our website dyson.com/docs

We recommend avoiding sinks with the following geometric characteristics; Flat bases immediately surrounding the drain hole.

(nominally within a 2⁵/₁₆" radius).

Sloping back and front wall transitions in relation to the base of the sink. See our pre-installation guide for further details: www.dysoncanada.ca

Sink dimensions:

All sink measurements are internal unless stated otherwise.

Minimum width of sink: 15", Front to back – Minimum: 13"

Minimum depth of sink: 5"

Maximum depth of sink for WD05 only: 8"

(External measurement of vessel sink)

Sink materials: Sinks with highly polished surfaces should be avoided, e.g. reflective chrome. Porcelain or brushed metal is ideal. When multiple taps are installed side-by-side, tap centers should be a minimum of 22⁷/₈" apart.

Standard warranty

5 year parts and labour.

Product range

WD04 Short



WD05 Tall



WD06 Wall



Further documents are available online to download.

Pre-installation guide.

Installation guide.

Dyson Airblade Wash+Dry hand dryer brochure.

Cleaning guide.

CAD drawings.

Installation videos.

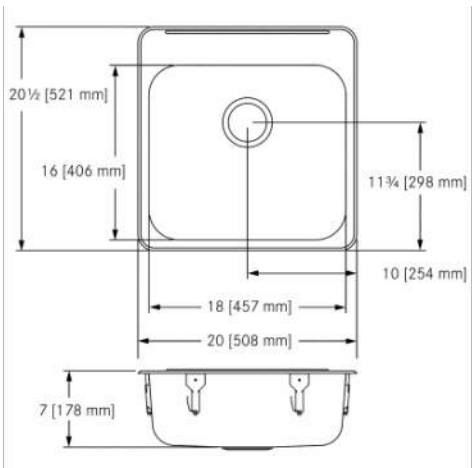


The Carbon label is a trademark of the Carbon Trust.
HACCP International non-food certification mark is the registered trademark of HACCP International.
HACCP International have certified Dyson products based on their recommended installation and operating conditions. Licensed by Dyson. Quiet Mark is a trade mark of the Noise Abatement Society.

For further information please contact Dyson.
1-866-236-3884 Commercial.Sales@dyson.com
www.dysoncanada.ca

DROP IN SINK: LBS6807-1

LBS6807-1 | 2000102134



Single compartment self rimming drop-in sink with faucet ledge. 20 gauge (0.9 mm), type 302 (CNS 18/8) stainless steel. Exposed surfaces are #4 satin finished. Undercoated to reduce condensation and resonance. Includes waste fitting, factory applied rim seal, cutout template, and factory installed EZ TORQUE™ fasteners. Certified to ASME A112.19.3-2008 / CSA B45.4-08. Center back waste location. Includes 3 1/2" (89 mm) crumb cup strainer with 1 1/2" (DN38) brass tailpiece.

Model Options:

LBS6807-1/1, 1 faucet hole, 1 1/2" diameter

LBS6807-1/3, 3 faucet holes, 1 1/2" diameter, 4" centers, 8" centerset

LBS6807-1, Custom (non-returnable)

TECHNICAL DATA	
type of basin	Single Compartment
bowl depth	7"
Bowl finish	SATIN-FINISHED
Bowl front to back	16"
Bowl left to right	18"
gross weight	4.12 kg
material	STAINLESS-STEEL
material code	1.4301 Chrome Nickel steel V2A
material thickness grade	20 gauge (.90 mm)
overall depth (front-back)	20 1/2"
overall width (left-right)	20"
overflow	no
Faucet ledge	yes
type of waste kit	3 1/2" crumb cup strainer
undercoated	yes
Waste hole position	centre back
net weight	2.98 kg

PROJECT INFORMATION

Item Location

Project Number

Quote Number

Notes

Engineer's Approval



CHICAGO FAUCETS

a Geberit company

2100 SOUTH CLEARWATER DRIVE
DES PLAINES, ILLINOIS 60018-5999

FITTING NO.

1100-GN2FC-XKCP

SUBMITTED MODEL NO.

JOB NAME

ITEM NO.

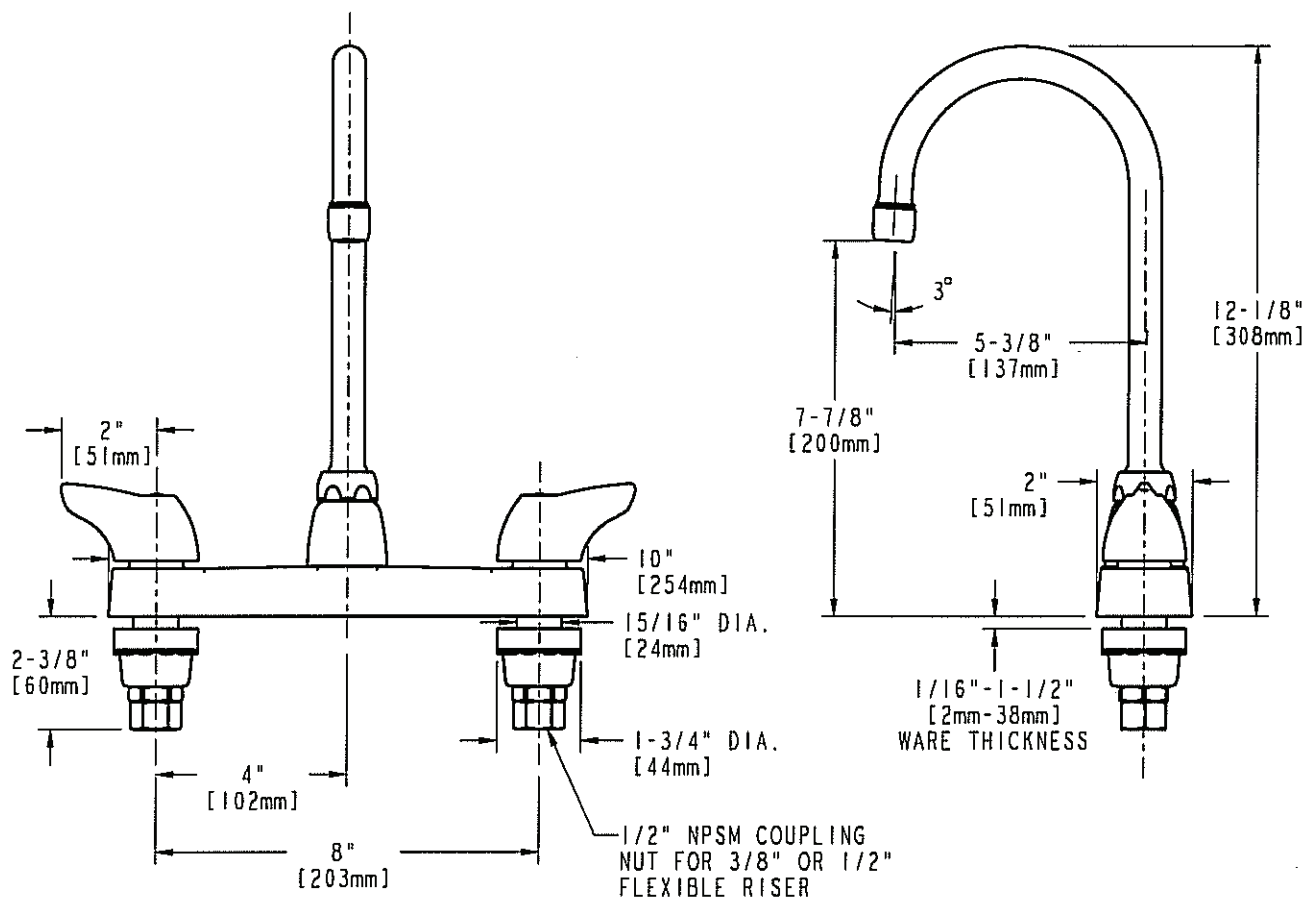
SUBMITTED AS SHOWN

SUBMITTED AS NOTED

SEE ATTACHED FOR
SUBMITTED MODIFICATION



ADA COMPLIANT



DIMENSIONS IN INCHES AND [MILLIMETERS].

TECHNICAL DATA

- DECK MOUNTED FITTING
- GN2A RIGID/SWING GOOSENECK SPOUT
- 1000 INDEXED SINGLE WING HANDLES
- CERAMIC DISC CARTRIDGES
- FINISH: CHROME PLATE

- FC - 1.6 GPM (6 L/min) FLOW RATE @ 60 PSI
LAMINAR FLOW CONTROL DEVICE IN SPOUT INLET
- ASME A112.18.1M COMPLIANT
 - CSA B125 COMPLIANT
 - NSF 61 COMPLIANT

DATE: 01-28-04

BY: SID

CHK'D:

APP'D: *AT*

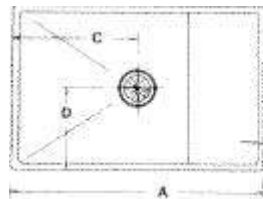
REV: A

FIAT

Mop Service Basins



- Weighs 80% less than Terrazzo
- Stronger than stone
- Easy to handle and install
- Stainproof, stays cleaner
- Crashproof, extra thick shoulders
- Can withstand boiling water
- Unaffected by normal cleaning chemicals
- Finished on all four sides



These rugged molded stone mop service basins are manufactured from the SMC process under the highest quality standards. The quality control molding is achieved in matched metal dies under intense heat and pressure with the result being a one-piece, dependable homogenous product. Color: White

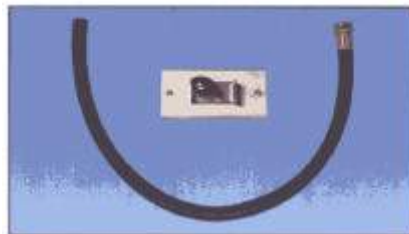
The unit shall be 10" (254) high walls with not less than 1" (25) wide shoulders and an integrally molded shelf 10⁹/₁₆" (268) wide (on the MSB-3624 only). The factory installed drain body shall be stainless steel and designed to provide for a lead caulk or QDC-3 joint connector for a 3" (76) drainpipe. A combination dome strainer and stainless steel lint basket is included.

MODEL	A	B	C	D	E
MSB-2424	24 610	24 610	12 305	12 305	10 254
MSB-3624	36 914	24 610	18 457	12 305	10 254



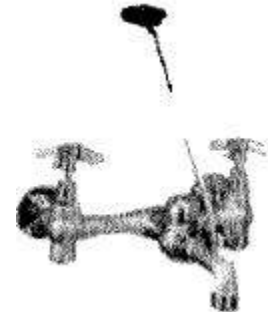
Wall Guard

For use with either Molded-Stone or Terrazzo Mop Basins, made of heavy gauge stainless steel. Designed and is used to protect walls adjacent to the receptor. Two panels are supplied for corner installations, a third panel is required for a recessed installation. The wall guard models are identified as follows: MSG-2424, MSG-3232, MSG-3624, and MSG-3636



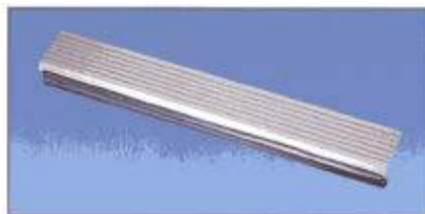
832-AA - Hose & Bracket

30" (762) long flexible heavy duty 5/8" (16) rubber hose, cloth reinforced with 3/4" (19) chrome coupling at one end. Bracket is 5" (127) long x 3" (76) wide stainless steel with rubber grip.



830 AA - Service Faucet

Wall mounted fitting. Chrome plated with vacuum breaker, integral stops, adjustable wall brace, pail hook and 3/4" (19) hose thread on spout. Body inlets 8" (203) center to center, four arm handles.



1239 BB - Aluminum Bumper Guard

For Terrazzo mop basins



1453-BB - Alternate Strainer

Flat type stainless.

*Custom order: Vandal-proof drains available; **must** specify when ordering base, **not** available separately.



889 CC - Mop Bracket

24" (610) long x 3" (76) wide, stainless steel with three (3) rubber tool grips



Quick Drain Connectors

For use with	QDC 3.2	QDC 3SN	QDC 3XH	QDC 4
Cast Iron Soil Pipe	•	•	•	•
P.V.C. Sched 40 D.W.V.	•		•	•
Steel Sched 40	•		•	•



The new degree of comfort.™



HWT
Point-of-Use

Point-of-Use commercial electric line is designed to provide hot water at the consumption point, eliminating costly temperature loss in long piping runs

Features & Benefits

Our family of point-of-use electric water heaters come in 2.5, 6, 10, 15, 19.9 and 30-gallon models. They are available in 1440 W through 6000 W and in 120, 208, 240, 277 and 480 voltages with a maximum temperature setting of 170° F. These units are suited for a wide variety of applications and small enough for installation in limited spaces where modest quantities of hot water are required.

Long Life Tank Design

Proprietary steel formulation with a unique coat of high temperature porcelain enamel maximizes corrosion resistance of the tank. Our R-Tech anode rod provides advanced technology and equalizes aggressive water action. This prolongs the effective life of the anode rod and in turn, the life of the tank.

Long Life Heating Elements

Our patented resistor elements are designed with a specially treated, double layer of magnesium oxide and copper to resist corrosion.

Efficient Design

Rigid polyurethane foam insulation provides superior insulating qualities resulting in reduced operating costs.

Optional Wall Mount Kit

The wall mounting kit provides an easy way to mount the unit off the floor, out of the way for more useable floor space in a small area. Each kit is designed to be used on walls with 16" stud centers. All necessary parts are included in this easy to install kit. (Note: The 2-1/2 gallon model comes standard with a wall mounting kit.)

Automatic Temperature Control

A surface mounted thermostat automatically cycles on and off to maintain the water temperature at a desired preset level.

Temperature Limiting Control

Automatically and safely cuts off the power in the unlikely event that the water temperature exceeds 190°F.

Temperature and Pressure Relief Valve

CSA/ASME rated and factory installed.

Warranty

3-Year limited tank warranty

See Commercial Warranty Certificate for complete information.

Efficiency | These models have been tested according to DOE test procedures, and exceed the minimum energy factor requirements of ASHRAE (Part of the Federally mandated Energy Policy Act (EPAct)).

Also exceeds energy efficiency codes of all states including California Energy Commission (CEC).

Safety and Construction | These products are design certified by Underwriters Laboratories (UL) to meet UL standard 174 as electric storage tank water heaters. All models are North Carolina and Massachusetts Code compliant. **Certified for 150 PSI maximum working pressure.**

Continued next page



Rheem Point-of-Use

2.5 to 30-Gallon Capacities
1.5 kW through 6 kW
120, 208, 240, 277 and
480 Voltages
Single Phase
Electric



INTEGRATED AIR & WATER



The new degree of comfort.™



Point-of-Use

HWT

DIMENSIONAL INFORMATION (All dimensions shown in inches)									
MODEL	MIN WATTS	MAX WATTS	TANK GALLONS	A	B	C	D	E	SHIPPING WEIGHT (LBS.)
EGSP2	1,440	1,500	2-1/2	14	9-3/4	—	—	—	18
EGSP6	1,500	6,000	6	15-1/8	15-3/4	12-5/8	11-5/8	4-1/4	41
EGSP10	1,500	6,000	10	22-7/8	15-3/4	20-3/8	19-3/8	4-1/4	53
EGSP15	1,500	6,000	15	24-1/4	17-3/4	21-7/8	19-3/8	4-5/8	65
EGSP20	1,500	6,000	19.9	25-1/8	19-3/4	22-5/8	19-5/8	5-1/8	76
EGSP30	1,500	6,000	30	30	21-3/4	23	23	2-3/4	115
Water Temp. Ratings:		Thermostat Type: Surface Mounted		Min. Delivered Temperature: 110° F		Max. Delivered Temperature: 170° F		High Temperature Limit: 190° F	

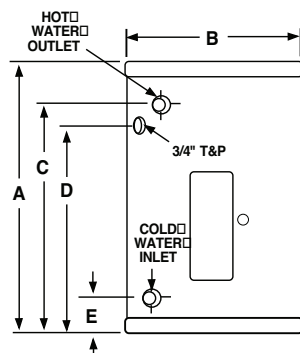
NOTE: Basic model numbers are listed. When ordering, specify electrical input and kW to determine specific model number.

Canadian models have different model numbers than the U.S. models. Add a "C" before the model number (e.g. CEGSP2) when ordering.

Models:

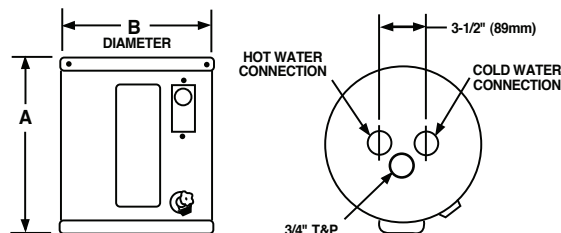
EGSP6
EGSP10
EGSP15
EGSP20
EGSP30

Water Connections
3/4" NPT



Model: EGSP2

Water Connections
1/2" NPT



ELEMENT AVAILABILITY					
WATTAGE	120 V	208 V	240 V	277 V	480 V
1,440	**Y	N/A	N/A	N/A	N/A
1,500	Y	Y	**Y	N/A	N/A
2,000	Y	Y	Y	Y	Y
2,500	Y	Y	Y	N/A	N/A
3,000	Y	Y	Y	Y	Y
4,500	N/A	Y	*Y	*Y	*Y
6,000	N/A	Y	Y	Y	Y

*Not available in EGSP6 & EGSP10

**EGSP2 available only in these configurations.

ELECTRICAL CHARACTERISTICS

ELEMENT WATTAGE	FULL LOAD CURRENT IN AMPERES				
	120 V	208 V	240 V	277 V	480 V
1,440	12.0	N/A	N/A	N/A	N/A
1,500	12.5	7.2	6.3	N/A	N/A
2,000	16.7	9.6	8.3	7.2	4.2
2,500	20.8	12.0	10.4	N/A	N/A
3,000	25.0	14.4	12.5	10.8	6.3
4,500	N/A	21.6	18.8	16.2	9.4
6,000	N/A	28.8	25.0	21.7	12.5

All models employ 1 heating element resulting in a 2-wire outlet (single phase) electrical configuration.

RECOVERY CAPACITIES

ELEMENT WATTAGE	TEMPERATURE RISE - DEGREES F - GALLONS PER HOUR					
	40°F	60°F	80°F	100°F	120°F	140°F
1,440	15	10	7	6	5	4
1,500	15	10	8	6	5	4
2,000	20	14	10	8	7	6
2,500	25	17	13	10	8	—
3,000	30	20	15	12	10	9
4,500	46	30	23	18	15	13
6,000	61	41	30	24	20	17

Recommended Specifications (for trade reference only)

Water heater(s) shall be model _____, manufactured by Rheem, having electrical input of _____ kW and a recovery rate of _____ GPH at a 100°F temperature rise. Water heater(s) shall have a storage capacity of _____ gallons. Water heater(s) shall have the UL/CSA seal of certification and be factory equipped with an CSA/ASME rated temperature and pressure relief valve. Tank(s) interior shall be coated with a high temperature

porcelain enamel and furnished with an R-Tech resistored magnesium anode rod rigidly supported. Water heater(s) shall meet or exceed the energy factor requirements of ASHRAE. Tanks shall have a working pressure rating of 150 psi, and shall be completely assembled. Water heater(s) shall be equipped with a copper, resistored, "screw-in" type element. Tank shall be insulated with rigid polyurethane foam insulation. Water heater(s) shall be equipped with a surface mounted thermostat with an integral, manual reset, high limit control. Water heater(s) shall be covered by a three year limited warranty against tank leaks.

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Rheem Water Heating • 101 Bell Road
Montgomery, Alabama 36117-4305 • www.rheem.com

Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1
Brampton, Ontario L6Y 0P5 • www.rheem.com



INTEGRATED AIR & WATER

PLUMBING

(RENOVATIONS ONLY)





**CADET UNIVERSAL ACCESS
COUNTERTOP BASIN**

- Vitreous china
- Self-rimming
- Two rear overflow holes
- Supplied with template and colour-matched sealant
- Faucet deck
(Faucet shown not included)

- ☐ **9498 001** Faucet holes on 203mm (8") centres
- ☐ **9494 001** Faucet holes on 102mm (4") centres
- ☐ **9495 001** Centre hole only (Illustrated)

Nominal Dimensions:
533 x 445mm (21" x 17-1/2")

Bowl sizes:

441mm (17-3/8") wide, 279mm (11") front to back, 133mm (5-1/4") deep

COMPLIANCE CERTIFICATIONS –

Meets or exceeds the following Specifications:

- ASME A112.19.2M for Vitreous China Fixtures.
- CAN/CSA B45 Series.
- 1995 National Building Code, section 3.7 and CAN/CSA-B651-M90 and OBC 3.7.

To Be Specified

- ☐ Colour:
- ☐ Faucet*:
- ☐ Faucet Finish:
- ☐ Supplies & Stops:
- ☐ Trap 1-1/4" (32 mm):

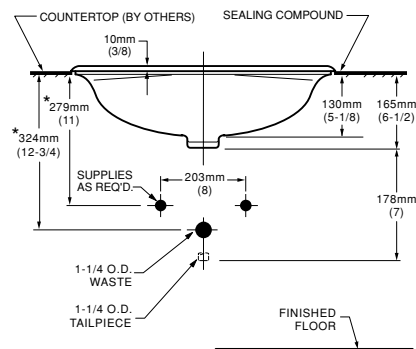
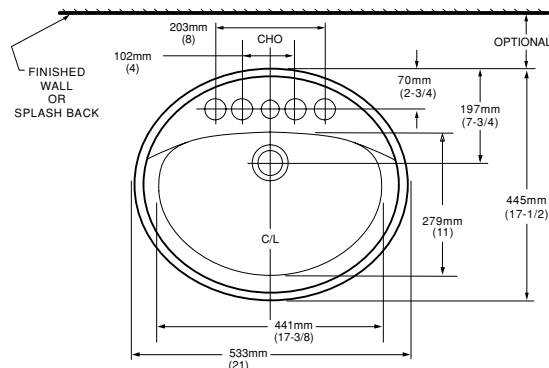
* See faucet section for additional models available



- Top of front rim mounted 864mm (34") maximum from finished floor.

**MEETS THE AMERICAN DISABILITIES ACT GUIDELINES
AND ANSI A117.1 REQUIREMENTS FOR PEOPLE WITH
DISABILITIES**

For Universal Design Options, top of counter may be mounted at 813mm (32") from finished floor to meet ADA and ANSI A117.1 requirements. A 864mm (34") mounting height is required for California Title 24 and other more stringent knee space requirements. A 838mm (33") mounting height is required for Ontario. Check local codes.



NOTES:

* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED. FOR COUNTERTOP CUTOUT AND INSTALLATION INSTRUCTIONS USE TEMPLATE SUPPLIED WITH BASIN.

FAUCETS NOT INCLUDED AND MUST BE ORDERED SEPARATELY.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2.

These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.



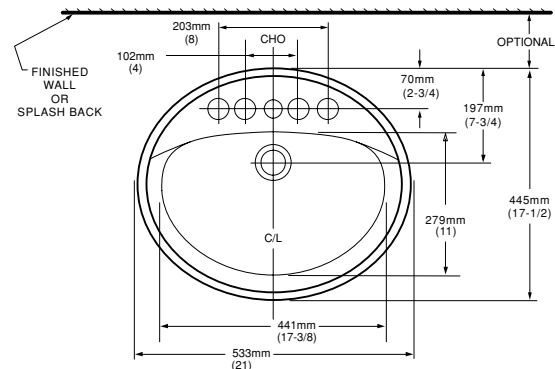
**CADET UNIVERSAL ACCESS
COUNTERTOP BASIN**

Product Modifications

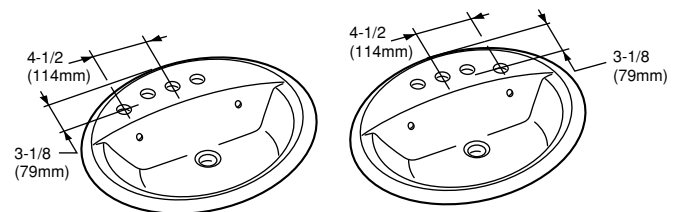
- Wall hung basin with extra hole for lotion dispenser
- Extra hole measures 35mm (1-3/8") diameter
- Short shank soap/lotion dispenser required
- Front overflow unless sealed
- Self-rimming with template and colour-matched sealant

Nominal Dimensions:

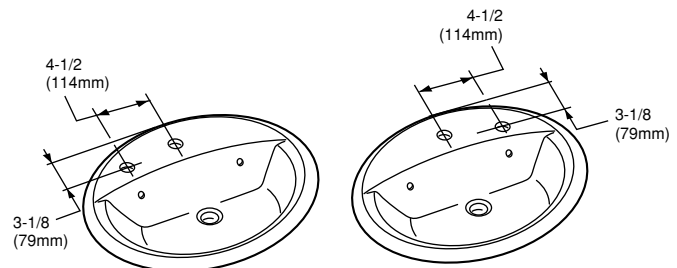
Round 483mm (19") diameter



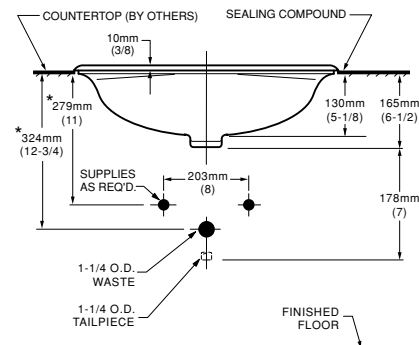
- ☐ **9494 M23** Faucet holes on 102mm (4") centres
- Extra right-hand hole
- ☐ **9494 M21** Faucet holes on 102mm (4") centres
- Extra left-hand hole



- ☐ **9495 M23** Centre hole only
- Extra right-hand hole
- ☐ **9495 M21** Centre hole only
- Extra left-hand hole



- ☐ **9494 M45** Sealed overflow
- Faucet holes on 102mm (4") centres
- ☐ **9498 M45** Sealed overflow
- Faucet holes on 203mm (8") centres
- ☐ **9494 M45** Sealed overflow
- Centre hole only



NOTES:

* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED. FOR COUNTERTOP CUTOUT AND INSTALLATION INSTRUCTIONS USE TEMPLATE SUPPLIED WITH BASIN.

FAUCETS NOT INCLUDED AND MUST BE ORDERED SEPARATELY.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2.

These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

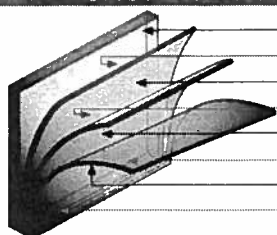
SECURITY FILM

(TEST RESULTS)



Physical & Thermal Test Results

Armorcoat 10 Mil Silver 80



- Inside Surface Of Glass
- UV Absorbing Mounting Adhesive
- 7 Mil Clear Polyester Film
- Special Laminating Adhesive
- 2 Mil Clear Polyester Film
- Special Laminating Adhesive
- 1 Mil Clear Polyester Film
- Protective Scratch Resistant Surface

Armorcoat works around the clock to protect occupants and property. To increase shatter-resistance, thicker optical grade polyester is used with special laminating adhesives, giving Armorcoat its exceptional strength.



Test Name	Film Thickness				
	4 Mil (100 micron)	7 Mil (175 micron)	8 Mil (200 micron)	10 Mil (250 micron)	14 Mil (350 micron)
Tensile Strength ASTM D 882 (lbs/in ²)	29,000	29,000	29,000	29,000	29,000
Elongation (%) ASTM D 882	>100	>100	>100	>100	>100
Yield Stress (5%) ASTM D 882 (lbs/in ²)	15,000	15,000	15,000	15,000	15,000
Break Strength (lbs/inch)	116	203	232	290	406
Yield Strength (5%) (lbs/inch)	60	105	120	150	210
Tear Strength Graves Tear Test, ASTM D 1004 (lbs force)	6.5	18.9	21.6	27.0	37.8
Tensile Modulus ASTM D 882 (lbs/in ²)	550,000	550,000	550,000	550,000	550,000
Puncture Strength ASTM D 4830 (lbs)	66	115	140	175	230
Peel Strength (g/inch of width)	>2,500	>2,500	>2,500	>2,500	>2,500
Poisson's Ratio ASTM D 882	.38	.38	.38	.38	.38
Abrasion Resistance (%) ASTM D 1003-92, ASTM D 1044 8 100 Cycles	<5	<5	<5	<5	<5
ANSI Z 97.1	Pass	Pass	Pass	Pass	Pass
CPSC CFR 1201, Category II	No	Pass	Pass	Pass	Pass
GSA Security Criteria Performance Condition, Daylight Application ¹ Performance Condition, Wet Glaze ¹ Performance Condition, Mechanical ² 1=4PSI/28PSI/ms, 2=10PSI/69PSI/ms 3b	3b NA NA	3b NA NA	3b 3a 3a	3b NA NA	3b NA 3a
Smoke Development Index ASTM E 84	28	28	28	28	142
Flash Temperature (°F) ASTM D 1929	730	730	730	730	730
Self Ignition (°F) ASTM D 1929	750	750	750	750	750
Flame Spread Index ASTME 84	2	2	2	2	5

Notes: This test data contains results arrived at only after employing specific test procedures and standards. The included data does not constitute a recommendation for, endorsement of, or certification of the product or material tested. This data is provided for informational purposes only and are not to be considered part of the basis of any bargain or transaction involving Bekaert Specialty Films, LLC (BSF) products. BSF makes no representation or warranty, expressed or implied, including the implied warranties of merchantability or fitness for a particular purpose, that its products will conform to these test data.

Extrapolation of data from the sample or samples relating to the batch or lot from which data were obtained may not correlate and should be interpreted accordingly with caution. BSF shall not be responsible for variations in quality, composition, appearance, performance, or other feature of similar subject matter produced by persons or under conditions over which BSF has no control.





HanitaTek Film Specifications

Safety ~ Security ~ Solar



SafetyZone™ Clear Safety & Security Film

4 Mil
Clear
Anti-
Graffiti

6 Mil
Anti-
Graffiti

4 Mil
Clear
Exterior
SR

15 Mil
Clear

12 Mil
Clear

8 Mil
Clear

7 Mil
Clear

4 Mil
Clear

Mechanical Properties

Thickness - ASTM D882	4 Mil	7 Mil	8 Mil	12 Mil	15 Mil	4 Mil	6 Mil	4 Mil
Tensile Strength at Break (PSI) - ASTM D882	28,500	26,000	28,500	28,500	28,500	28,500	28,500	28,500
Break Strength (lbs/inch)	112	180	224	336	420	112	125	112
Elongation at Break	125%	140%	125%	125%	140%	125%	150%	125%
Peel Strength (lbs/inch)	7	7	7	7	7	5	5	7

Optical & Solar Properties

Visible Light Transmitted	85%	85%	84%	83%	83%	85%	85%	86%
Visible Light Reflected	11%	11%	10%	10%	10%	11%	11%	9%
UV Radiation Rejected	90%	90%	93%	96%	96%	90%	93%	99%
Total Solar Energy Reflected	9%	10%	10%	11%	11%	9%	10%	9%
Total Solar Energy Transmitted	77%	76%	76%	74%	74%	77%	75%	78%
Total Solar Energy Absorbed	14%	14%	14%	15%	15%	14%	15%	13%
Shading Coefficient	0.93	0.91	0.92	0.9	0.9	0.93	0.92	0.96
Total Solar Energy Rejected	19%	20%	20%	22%	22%	19%	19%	19%

71 Strada Drive, Unit 13 Woodbridge, ON ~ L4L 5V8

Tel: 416.548.4737 ~ 1-866-9GLASS1 ~ (1-866-945-2771) ~ Fax: 905.856-5351

Website: www.protectmyglass.com ~ Email: info@protectmyglass.com



SIGN DETAILS





ÉLÉVATION GRAPHIQUE

ÉCHELLE: 1/2" = 1'-0"

SN-1115709

TWO (2) FACES REPLACEMENT

NEW WHITE PIGMENTED LEXAN FACES,
WITH VINYL APPLICATION FOR ONE (1) EXISTING
PYLON SIGN



EXISTING



LOCATION

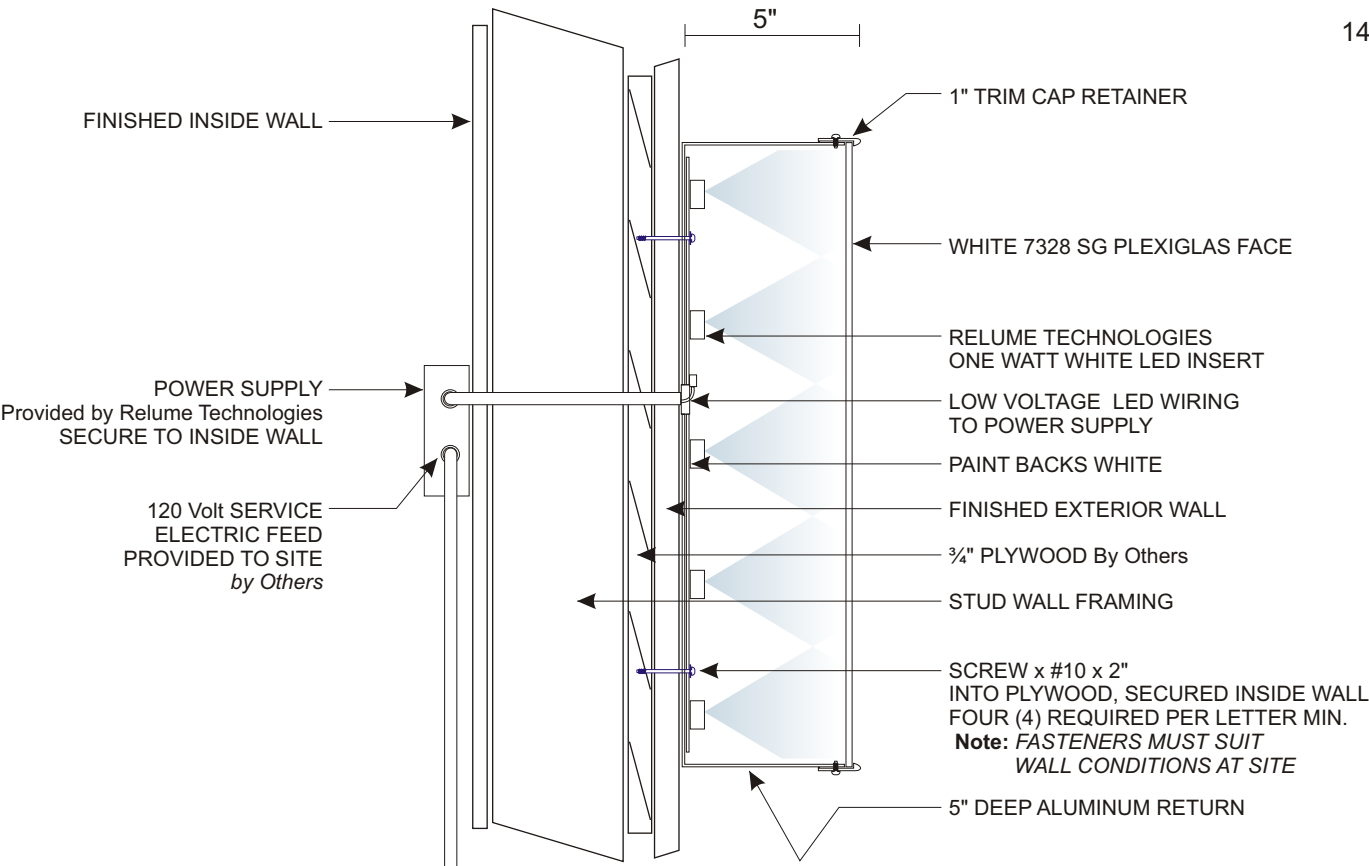
COLOURS	
	FACE
	3M VINYL BLACK 3630-22
COLOURS PRINTED ON THIS DRAWING COULD BE DIFFERENT FROM THE REAL COLOURS	

REVISIONS				
No.	DESCRIPTION	Init.	Ver.	DATE yy-mm-dd
00	PRESENTATION	MG		11-10-31

	montreal neon signs inc.	
	1780, Place Martenot Laval (Québec) H7L 5B5 Phone : 450.668.4888 Phone : 514.955.3333 Fax : 450.668.8822	
REPRODUCTION, COPYING ARE NOT PERMITTED WITHOUT AUTHORISATION OF MONTREAL NEON		
ACCOUNT EXEC.: CARLO PAOLUCCI		
CLIENT: WINNERS CANADA 6715 AIRPORT ROAD TORONTO, ON.		
SITE/PROJECT: WINNERS #283 777 MEMORIAL AVENUE THUNDERBAY, ON.		
TITLE: GRAPHIC ELEVATION		
FILE: 5773_1115709_R00		01 01

ILLUMINATED LETTERS

SECTION VIEW DETAILS



LETTER WITH REMOTE POWER PACK
WITH A COMMON POWER SUPPLY MOUNTED INSIDE WALL
A SINGLE ELECTRIC FEED REQUIRED BEHIND WALL
AT 120 Volt SERVICE
LOW VOLTAGE WIRING FEEDS TO EACH LETTER
FROM POWER SUPPLY



PROVIDE ONE (1) NEW SET OF ILLUMINATED LETTERS

WHITE 7328 SG PLEXIGLAS FACES
1" **BLACK** TRIM CAP RETAINER
5" DEEP ALUMINUM RETURNS, PAINTED **BLACK**
PAINT BACKS WHITE
ILLUMINATED BY RELUME WHITE 1 WATT LED'S
POWER SUPPLY & LOW VOLTAGE WIRING by RELUME

LETTER WITH REMOTE POWER PACK
WITH A COMMON POWER SUPPLY MOUNTED INSIDE WALL
LOW VOLTAGE WIRING ONLY WILL FEED THROUGH WALL
A SINGLE ELECTRIC FEED REQUIRED
AT 120 Volt SERVICE

*Provide RACEWAY INSIDE TO CONCEAL WIRING
only if required.*

Customer:	Winners/ HomeSense
Address:	N/A
Designer:	SV
Page:	2

Sales:	Dan Bovair
Date:	June 14 /07
Revision:	
Scale:	1/8"=1'-0"
File Name:	



1140 Blair Road
Burlington, ON
L7M 1K9
Phone: (905) 335-6664
Fax: (905) 335-2712
E-mail: info@jonesneonsigns.com
Website: www.jonesneonsigns.com

FLOOR LOADING REQUIREMENTS





- **TJX Design Load Standards
for Slab on Grade &
Structural Slab**

Structural Slab Design Load Letter

Project Number: 2015-037

Prepared For:

Bogdan Strama
K PAUL ARCHITECT INC.
2660 Sherwood Heights Drive, Suite 200
Oakville, Ontario L6J7Y8

Prepared By:

exp Services Inc.
220 Commerce Valley Drive West, Suite 500
Markham, ON L3T 0A8

Date Submitted
June 2015



TJX PROTOTYPE STRUCTURAL SLAB DESIGN LOADS

Introduction

We are pleased to submit the following report as **exp**'s response to K Paul Architect Inc.'s request regarding the review of TJX prototype layout drawings to determine floor design load standards for stockrooms. Prototype Stockroom layout drawings and racking unit weights and point loads were forwarded to exp by Mr. Bogdan Strama of the K Paul Architect Inc.

It is our understanding the future TJX retail stores may be located on slab on grades and/or structural suspended slabs such as precast slabs, composite slabs, flat slabs, etc. As requested, we have reviewed the Stockroom prototype layout plans for both slab on grade and suspended structural slab in conjunction with the racking loads listed on the following:

1. North American Steel drawing titled "Elevation and Loading Details" dated 2012-07-27.
2. Mitchell & Associates consulting Engineers Inc., Electric Rug Gallery weight Data

All documents are attached to this report.

Additionally, it is our understanding that TJX has confirmed that the stockroom racks are only loaded to about 143 lbs/shelf (64 kg/shelf) or approximately 50% of the rack design capacity as indicated in the North American Steel drawings.

Review Criteria

- Co-ordination with TJX and the racking supplier in order to develop a standard floor loading requirement for either a slab on grade or suspended slab condition in which the base building design would need to satisfy for stockrooms for a typical Winners/Marshalls/Home Sense store.
- It is our understanding that the anchorage of typical stockroom racking and the racking design will be completed by the racking supplier and a minimum base plate of 3" x 2-1/2" x 10Ga (76mm x 64mm x 3.175mm) welded on both side of the posts is to be provided.
- It is our understanding that the anchorage of typical Rug Gallery racking and the Rug Gallery Racks design will be completed by the racking supplier and that a minimum of four (4) base

plates consisting of a minimum contact area of four (4) square inch are used at each rack location.

Findings & Comments

Based on our review of the racking types, it appears that the largest racking area load is 323 psf (15.5 kPa) and corresponds to the rack type numbered 17/F-2. The racking area load is determined as the total rack loading distributed over the plan dimension of the rack. The largest point load associated with any one specific post load is understood to be 4.1 kips and corresponds to the rack type numbered 3/F-2.

Additionally based on the prototype racking layout plans for both slab on grade and suspended slab, it appears that the typical layout in a stockroom situated on a suspended slab will have a less dense racking layout than that of the racking layout intended for a slab on grade application. As such, it is expected that the design loading for a slab on grade will be larger than that for a suspended slab application. In determining the recommended loads to be considered for design of the specific slabs in each case, the racking layout in which allows for a minimum distance for aisles between groups of racking is considered. As such, the unloaded portions of the slab within the aisles adjacent to the racks are considered when determining the total area load recommended for the slab design.

Rug Gallery Loading:

Based on our review of the rug gallery racking design information for the Galt Display Free standing racks, it appears that each rack will project four (4) point loads to the supporting floor slab and will not exceed an approximate load of 3.84 kip at each contact point. The point load spacing for the largest loading condition is based on the 40 arm electric rack outrigger model for a 10' x 14' rack size. It can be assumed that the rug gallery racking will be located at a minimum distance of 5'-0" from any other racking or concentrated slab loads. As such, the recommendations provided within this report for the stockroom racking (neglecting any applicable reductions) shall govern the design criteria for the supporting floor structures at the Rug Gallery racking location.

The recommended slab loading design loads have been summarised in the table below:



Slab Type	Floor Design Load	Factored Point Load per Racking Post
Slab on Grade	200 psf (9.6 kPa)	4.1 kips (18.5 kN)
Suspended Slab	150 psf (7.2 kPa)	4.1 kips (18.5 kN)

Table 1.0 – Recommended Slab Loads

Our understanding of the client's needs and usage is that the racks are loaded approximately 50% of the maximum rack capacity. Based on this information, the slab loading can be designed for 50% of the factored point loads stated in the table above for the stockroom racking however the racks should be labeled accordingly when installed.

In conjunction with a design that is based on an area load, the slab design should consider a punching shear load of 4.1 kips (18.5 kN) or 2.05 kips (9.2 kN) (based on the load reductions described within this report) supported on a contact area of a minimum 3" x 2-1/2" (76mm x 64mm) baseplate consisting of at least 1/8" (3.175mm) in thickness. This is the value for a single rack post load. The slab designer is required to consider all conditions in which racking is intended to be placed adjacent to one another. (i.e. four racks adjacent to one another as well as back to back; the total point load would be the sum of 4 posts or 16.4 kips (74 kN) supported on a minimum contact area of 30in² (19,456 mm²)).

It is recommended that in a slab on grade application, the slab design should be based on a minimum 25 MPa concrete compressive strength at 28 days, a minimum thickness of 4" (100mm) and a minimum modulus of subgrade reaction of 20MPa/m. A qualified soils consultant should be retained to provide recommendations for the subgrade properties and preparations.

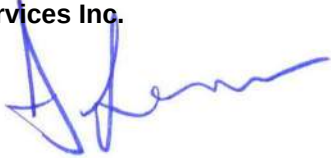
All loading recommendations discussed in this report have been based on the provided racking drawings and is understood to be factored loading.

The information for racking numbers 7/F-2, 8/F-2, 9/F-2, 10/F-2 shown on the layout plans do not appear to have been provided on the North American Steel drawing and have been assumed to not govern the design criteria.

Closing

We trust that this report is to your satisfaction. If you have any questions and/or concerns please contact the undersigned.

Yours very truly,
exp Services Inc.

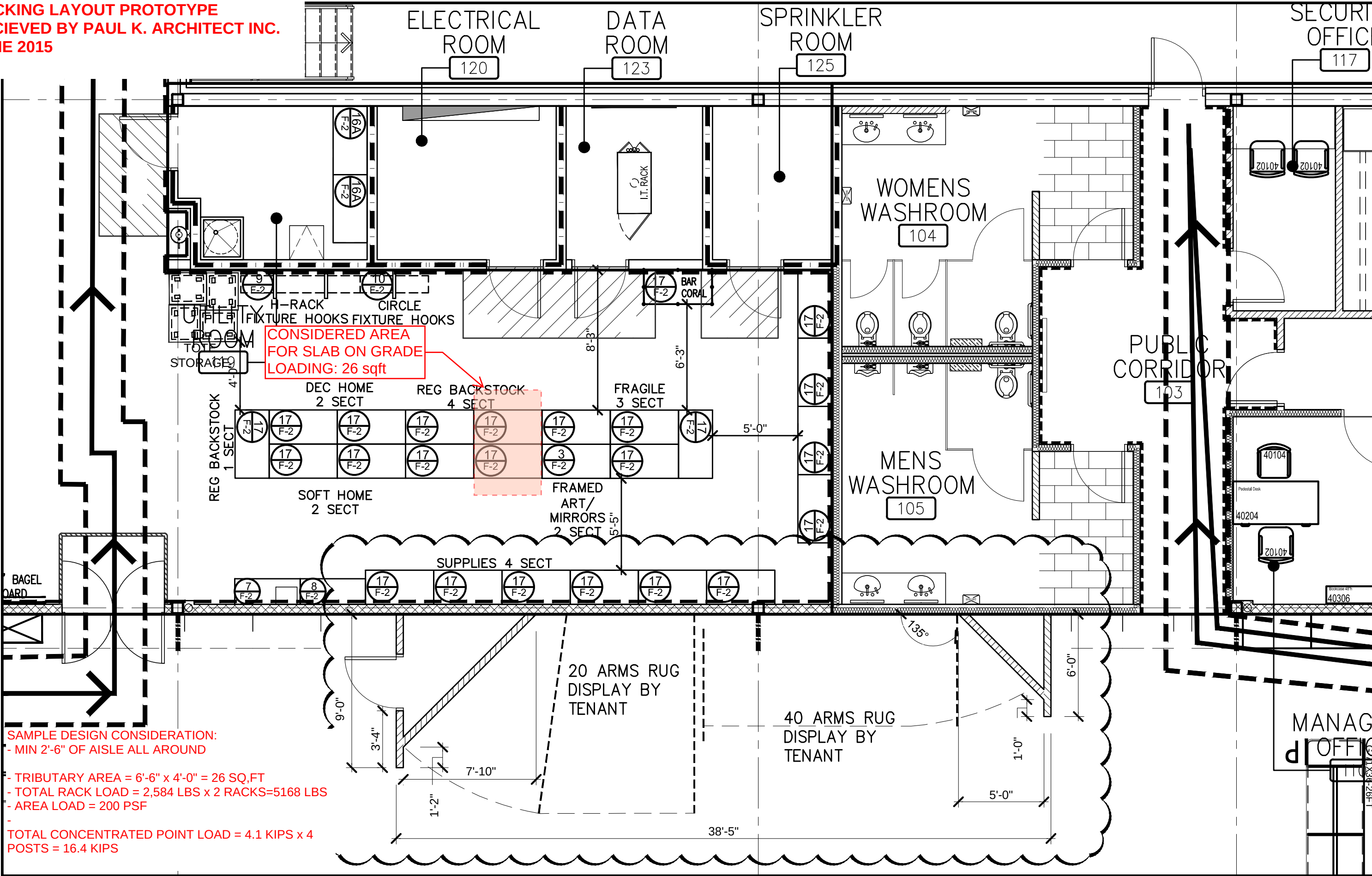


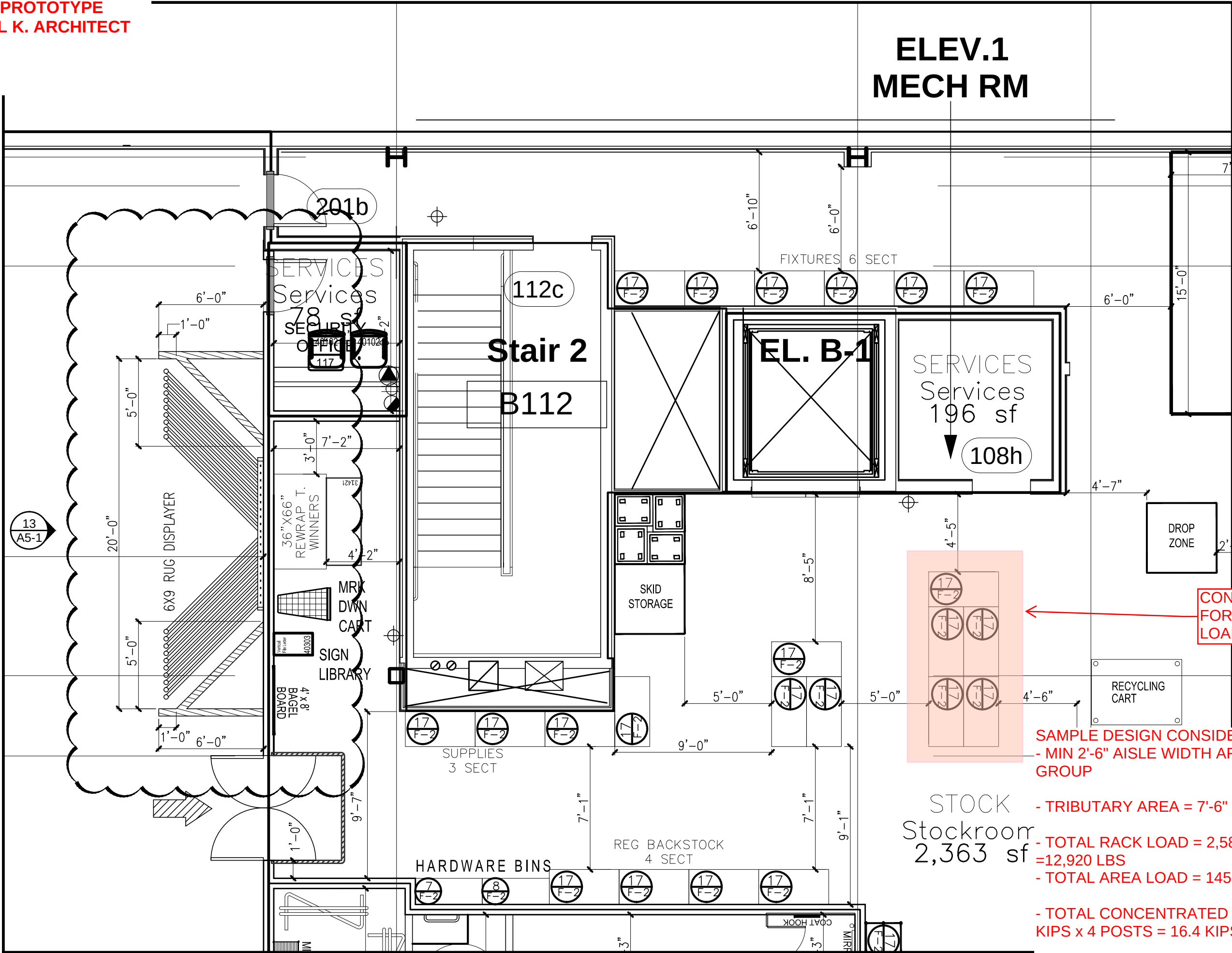
David Laserson, P.Eng., PMP
Project Manager, Structural Division

APPENDIX A

PROVIDED INFORMATION

TJX SLAB ON GRADE STOCKROOM
RACKING LAYOUT PROTOTYPE
RECIEVED BY PAUL K. ARCHITECT INC.
JUNE 2015







ELECTRIC RUG GALLERY

RACK FRAME WEIGHT

RACK SIZE	20 ARM		40 ARM	
	Lbs	Kg	Lbs	Kg
6 x 9 [ELEC]	542	247	768	349
8 x 10 [ELEC]	578	263	808	368
9 x 12 [ELEC]	676	308	880	400
10 x 14 [ELEC]	835	380	1,086	492

ELECTRIC ARM WEIGHT

RACK SIZE	EMPTY WEIGHT PER ARM		ARM LOAD CAPACITY	
	Lbs	Kg	Lbs	Kg
6 x 9 [ELEC]	46	21	150	69
8 x 10 [ELEC]	57	26	250	114
9 x 12 [ELEC]	63	29	250	114
10 x 14 [ELEC]	70	32	250	114

WEIGHT OF COMPLETE ELECTRIC RUG GALLERY [RACK + ARMS] -EMPTY

RACK SIZE	20 ARM		40 ARM	
	Lbs	Kg	Lbs	Kg
6 x 9 [ELEC]	1,702	423	1,406	640
8 x 10 [ELEC]	1,718	494	1,963	893
9 x 12 [ELEC]	1,936	620	2,607	1,185
10 x 14 [ELEC]	2,235	778	3,380	1,537

WEIGHT OF COMPLETE ELECTRIC RUG GALLERY [RACK + ARMS] – LOADED

RACK SIZE	20 ARM		40 ARM	
	Lbs	Kg	Lbs	Kg
6 x 9 [ELEC]	4,702	2,137.3	7,406	3,367
8 x 10 [ELEC]	6,718	3,053.6	11,963	5,438
9 x 12 [ELEC]	6,936	6,206.4	12,607	5,731
10 x 14 [ELEC]	7,235	3,288.6	13,380	6,082

OUTRIGGER POINT LOAD CALCULATION FOR ELECTRIC FREE STANDING RACK

Attached is a Table of Projected Point Loads on the Outriggers for the Galt Display Free Standing Rack. The calculations are based on the load of the arms and the carpets that hang out from the free standing frame. The carpet weight is based on a density of 1.1lbs per square foot, which is a conservative weight within the industry. I.e. Each Arm of the 9 X 12 Rack is capable of supporting two [2] only -125 lb carpets for a total load of 250 lbs per arm.

Rack Size	Carpet Weight Allowance [lbs]		Electric Rack Arm Weight [lbs]		Total Load per Arm [lbs]	
	Lbs	Kg	Lbs	Kg	Lbs	Kg
6 X 9	150	69	46	21	197	90
8 X 10	250	114	57	26	307	140
9 X 12	250	114	63	29	313	143
8 X 10	250	114	70	32	320	145

The two [2] forward-reaching outriggers will stabilize the rack structure against overturning. From our calculation approx. 60% of the Total Load [product weight + rack arm weight] will project to the floor as point loads. The following table summarizes the projected point load for the Racks based on Carpet Size and 20 to 40 arm configuration.

Rack Size	ELECTRIC RACK OUTRIGGER POINT LOAD									
	20 Arm		25 Arm		30 Arm		35 Arm		40 Arm	
	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs	Kg
6 X 9	1176	535	1470	668	1764	802	2058	935	2352	1069
8 X 10	1842	837	2303	1047	2763	1256	3224	1465	3684	1675
9 X 12	1878	854	2348	1067	2617	1280	3287	1494	3756	1707
10 X 14	1920	873	2400	1091	2880	1309	3360	1527	3840	1745

The capacity of a 4" thick floor slab reinforced with No 6 WWM for point loads depends on a number of site-specific variables. In order to arrive at an answer we have made the following assumptions, which would be valid or conservative for most commercial floors recently constructed in Ontario:

- * Sub grade modulus of 100
- * Radius of relative stiffness 20"
- * Concrete strength 25MPa (3,625psi)
- Base plate at least 4" square or 4" diameter
- Distance to control joint: at least 30"
- **Safety factor 1.7**

Assumptions marked * are not readily determined without access to detailed construction records. With the above assumptions, the point load capacity (safe working) is estimated as **3,675 lbs.**

SLATWALL DETAILS

(OFFICE AND STOCKROOM ONLY)



INSTALLATION INSTRUCTIONS
CSC WORLDWIDE WALL SYSTEM
3/4" PANEL SYSTEM
FOR

WINNERS

with
Wall System @ 95" High

Revision: 10-30-19



6311 Busch Boulevard

Columbus, OH 43229

Ph: (614) 409-9720

Fax: (614) 343-2215



Custom Retail Group
6311 Busch Boulevard
Columbus, OH 43229
Phone: 614-409-9720

Distribution and use of this
drawing must have prior approval
of CRG Worldwide

SCALE

SPECIAL INSTRUCTIONS
SEE BOM FOR COLOR
AND FINISH DETAILS

PAGE

1 OF 13

ENGINEER

JFL

DATE

10/30/19

CLASS

WS

DRAWING NUMBER

R01360-01

REVISION LEVEL

07

TOLERANCES (unless otherwise specified)
Standard Aluminum Association tolerances
apply unless otherwise noted

MATERIAL

A0106 / CSDK

DESCRIPTION

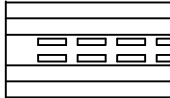
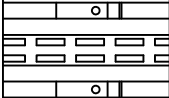
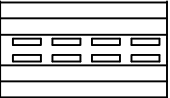
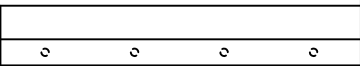
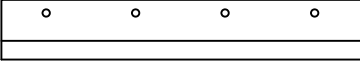
WALL SYSTEM INSTALL INSTRUCTIONS

	G	F	E	D	C	B	A
1	<u>CONTENTS:</u>						
2	PAGE	1	.....	COVER			
	PAGE	2	.....	INDEX / CONTENT LISTING			
	PAGE	3	.....	PARTS LIST: METAL + PANELS + TOOLS			
	PAGE	4	.....	LEVELING THE WALLSYSTEM			
3	PAGE	5	.....	FURRING STRIP INSTALLATION			
	PAGE	6	.....	RETAINER INSTALLATION			
	PAGE	7	.....	PILASTER INSTALLATION - DETAIL			
4	PAGE	8	.....	PANEL INSTALLATION - DETAIL			
	PAGE	9	.....	ALUMINUM INSERT - DETAIL			
	PAGE	10	.....	END OF RUN DETAILS			
	PAGE	11	.....	DETAIL AT DOORWAY			
5	PAGE	12	.....	DOOR (PANEL) DETAILS			
	PAGE	13	.....	CORNICE BRACKET PLACEMENT			

 Custom Retail Group 6311 Busch Boulevard Columbus, OH 43229 Phone: 614-409-9720	SCALE	SPECIAL INSTRUCTIONS SEE BOM FOR COLOR AND FINISH DETAILS	PAGE 2 OF 13	ENGINEER JFL	DATE 10/30/2019	CLASS WS	DRAWING NUMBER R01360-01	REVISION LEVEL 07
	TOLERANCES (unless otherwise specified) Standard Aluminum Association tolerances apply unless otherwise noted		MATERIAL A0106 / CSDK			DESCRIPTION INDEX / CONTENT LISTING		

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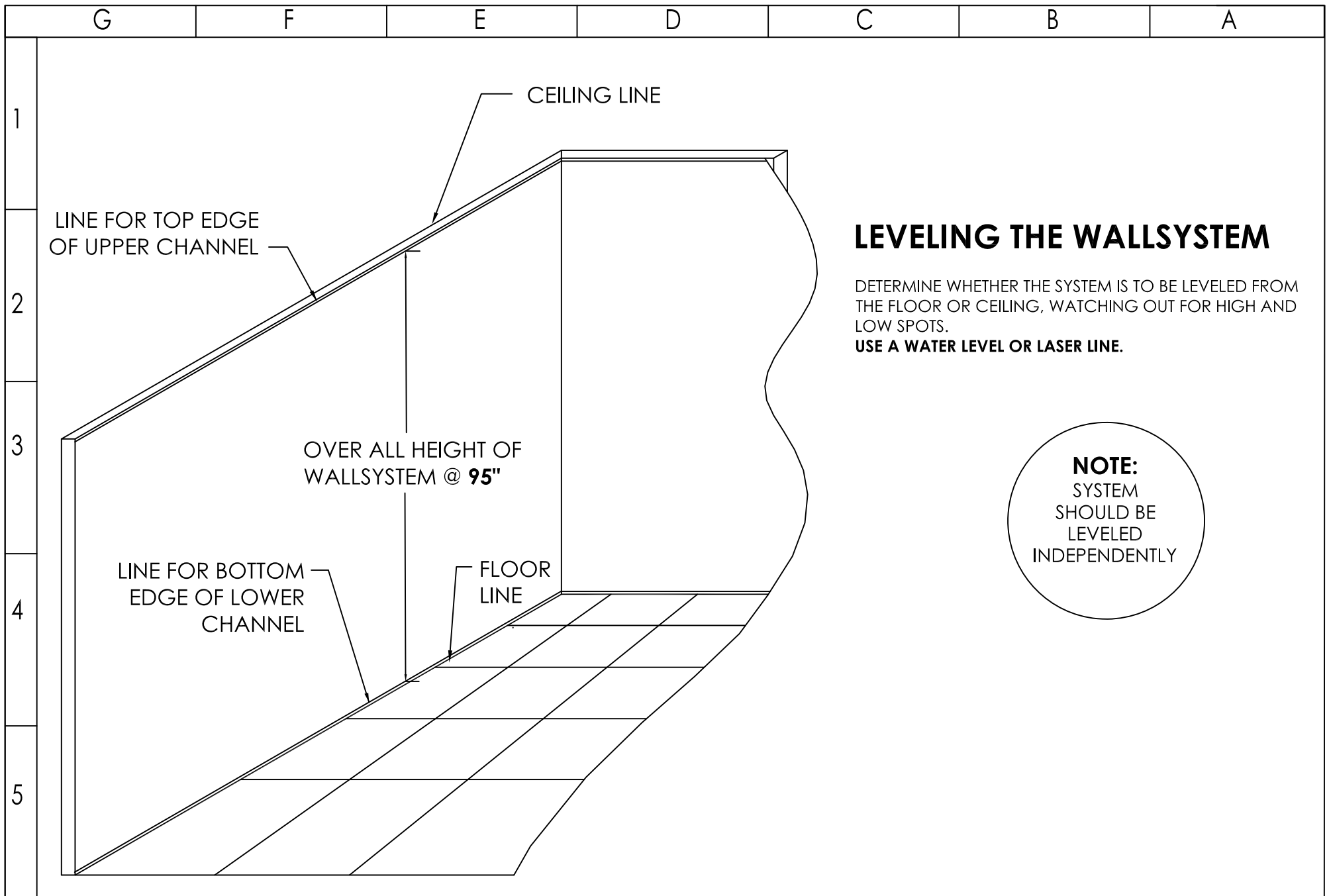
	G	F	E	D	C	B	A
1	WINNERS PARTS LIST METAL + PANELS + TOOLS						
		<u>METAL</u> DBL SLOTTED FLAT PILASTER 7/8" SLOTS ON 1-1/4" CENTERS #1851 - 94 1/4" MILL	   		<u>PANELS</u> PANEL 47-1/8" x 94-1/4" R01260.01.00.GW SOLID MELAMINE GOSHEN WHITE - MAIN PANEL USED AROUND PERIMETER OF STORE, AROUND DOORS & CORNER BOXES		
2		UPPER RETAINER - 96" LONG #2185 - ALUMINUM MILL LOWER RETAINER - 96" LONG #2285 - ALUMINUM MILL	   		PANEL 35-1/8" x 94-1/4" R01260.02.00.GW SOLID MELAMINE GOSHEN WHITE - 3' PANEL USED AROUND PERIMETER OF STORE AS SHOWN IN FLOOR PLAN		
3		END TRIM #4180A - 95" MILL END TRIM w/ FLANGE #4620B - 95" MILL	 		PANEL 47-1/8" x 94-1/4" #76089GW SLAT WALL GOSHEN WHITE - USED IN OFFICE AREAS AND NOTED AREAS		
4		DOOR ANGLE #9178 - 96" MILL INSIDE 90 #4280A - 95" MILL OUTSIDE 90 #4380A - 95" MILL	  		<u>TOOLS</u> BAG OF SCREWS (120 COUNT) #4999 VACUUM SUCTION CUP TOOL FOR INSTALLATION OF SOLID PANELS #4980		
5		PANEL WALL CLIP #4910			SLAT WALL PANEL INSTALLATION TOOL #4920 (FOR LIFTING SLATWALL PANELS)		
			NOTE: TO ALLOW FOR FLEXIBILITY IN THE FIELD, LOOSE WALL CLIPS ARE PROVIDED FOR INSTALLATION ON END TRIMS AS REQUIRED. US HOLE PLACEMENT ON PILASTER AS TEMPLATE.				

NOTE:
**ALL PARTS
MAY OR MAY NOT
BE SPECIFIED FOR
YOUR JOB.**

**PLEASE
CHECK PACKSLIPS
FOR EXACT
QUANTITIES.**

 Custom Retail Group 6311 Busch Boulevard Columbus, OH 43229 Phone: 614-409-9720	SCALE	SPECIAL INSTRUCTIONS SEE BOM FOR COLOR AND FINISH DETAILS	PAGE 3 OF 13	ENGINEER JFL	DATE 10/30/2019	CLASS WS	DRAWING NUMBER R01360-01	REVISION LEVEL 07
	TOLERANCES (unless otherwise specified) Standard Aluminum Association tolerances apply unless otherwise noted	MATERIAL A0106 / CSDK				DESCRIPTION PARTS LIST: METAL + PANELS + TOOLS		

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LEVELING THE WALLSYSTEM

DETERMINE WHETHER THE SYSTEM IS TO BE LEVELED FROM THE FLOOR OR CEILING, WATCHING OUT FOR HIGH AND LOW SPOTS.

USE A WATER LEVEL OR LASER LINE.

NOTE:
SYSTEM
SHOULD BE
LEVELED
INDEPENDENTLY



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SCALE

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AND FINISH DETAILS

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ENGINEER

JFL

DATE

10/30/2019

CLASS

WS

DRAWING NUMBER

018432-01

REVISION LEVEL

07

TOLERANCES (unless otherwise specified)

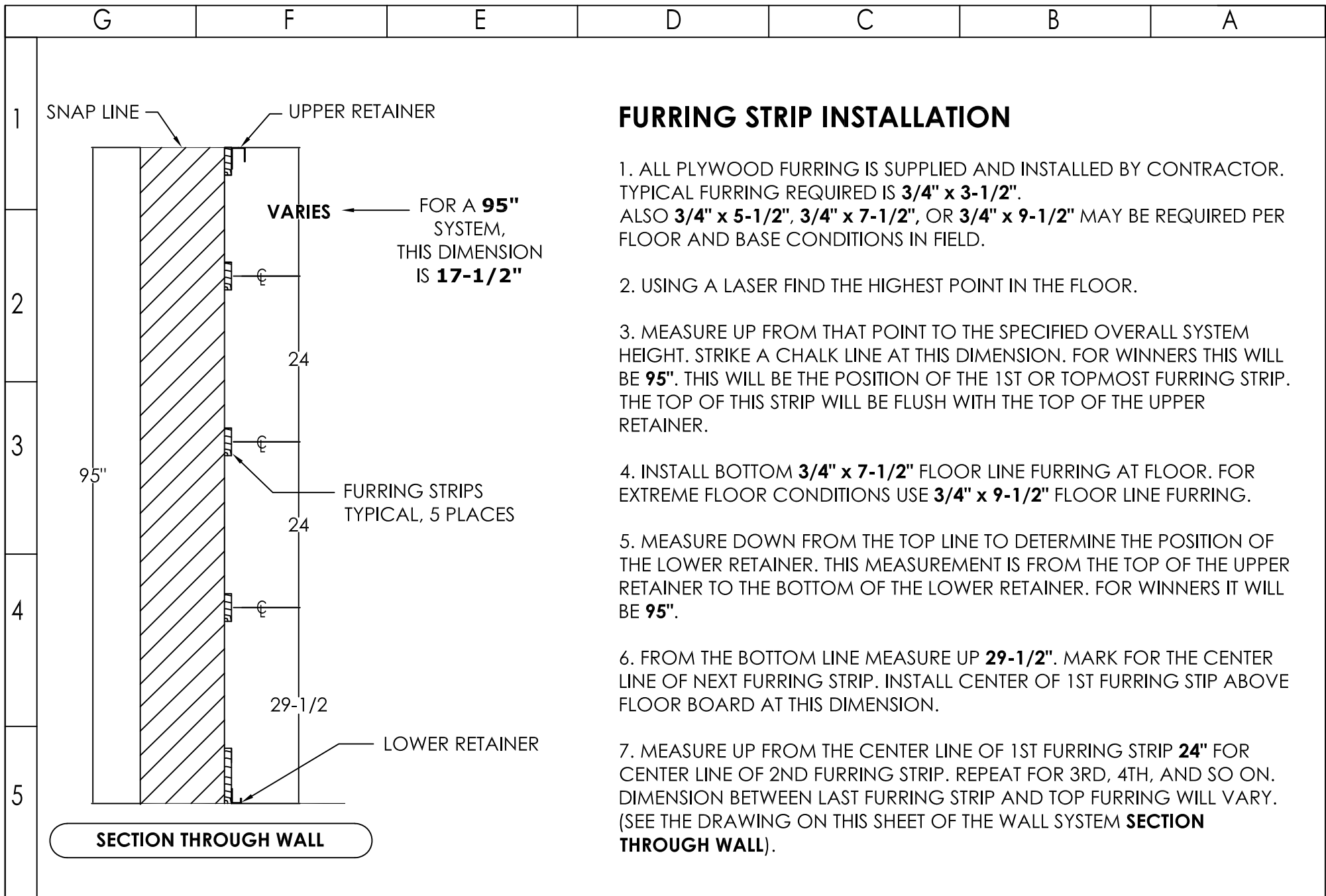
Standard Aluminum Association tolerances
apply unless otherwise noted

MATERIAL

A0106 / CSDK

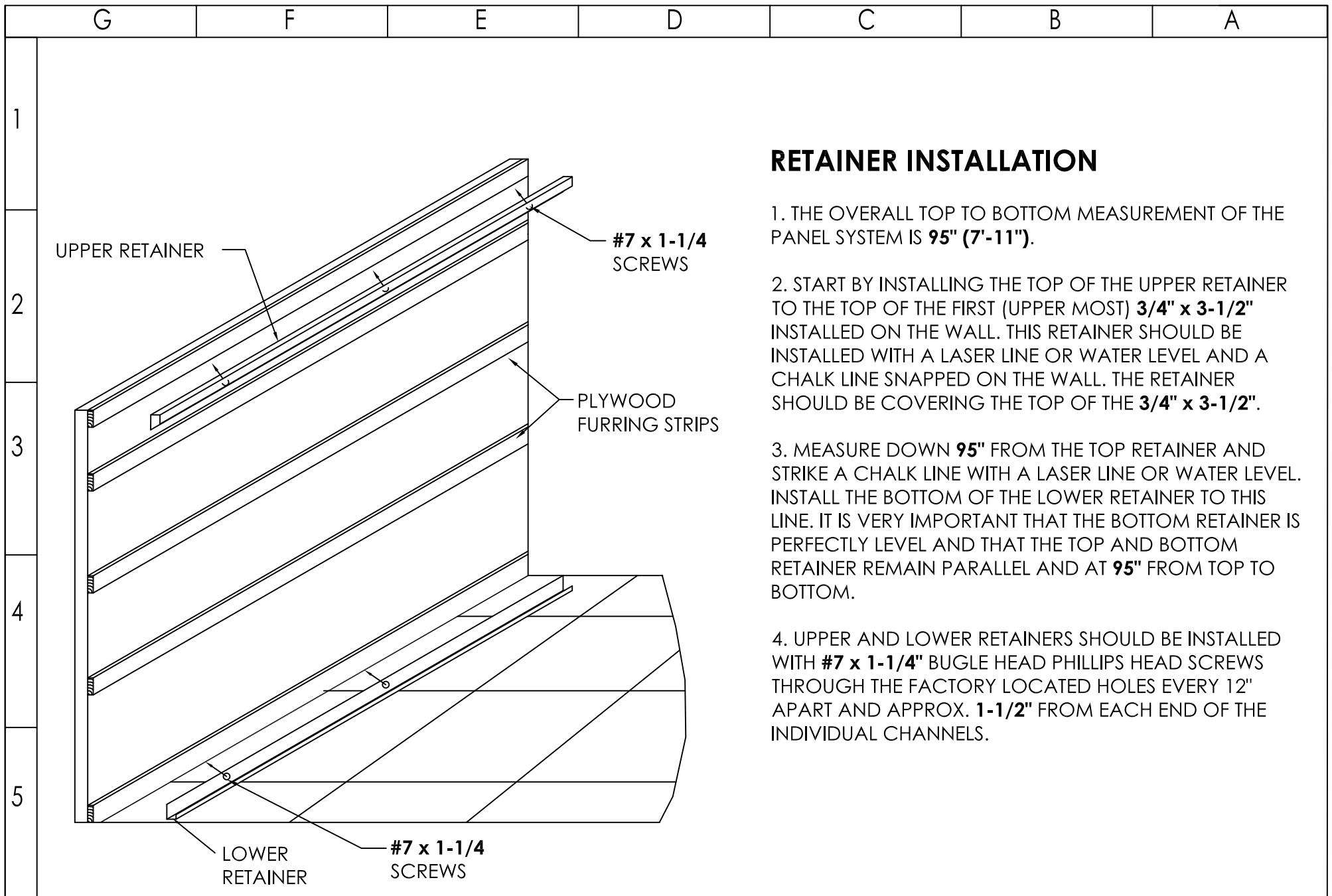
DESCRIPTION

LEVELING THE WALLSYSTEM



 Custom Retail Group 6311 Busch Boulevard Columbus, OH 43229 Phone: 614-409-9720	SCALE	SPECIAL INSTRUCTIONS SEE BOM FOR COLOR AND FINISH DETAILS	PAGE 5 OF 13	ENGINEER JFL	DATE 10/30/2019	CLASS WS	DRAWING NUMBER R01360-01	REVISION LEVEL 07
	TOLERANCES (unless otherwise specified) Standard Aluminum Association tolerances apply unless otherwise noted		MATERIAL A0106 / CSDK			DESCRIPTION FURRING STRIP INSTALLATION		

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RETAINER INSTALLATION

1. THE OVERALL TOP TO BOTTOM MEASUREMENT OF THE PANEL SYSTEM IS **95" (7'-11")**.
2. START BY INSTALLING THE TOP OF THE UPPER RETAINER TO THE TOP OF THE FIRST (UPPER MOST) **3/4" x 3-1/2"** INSTALLED ON THE WALL. THIS RETAINER SHOULD BE INSTALLED WITH A LASER LINE OR WATER LEVEL AND A CHALK LINE SNAPPED ON THE WALL. THE RETAINER SHOULD BE COVERING THE TOP OF THE **3/4" x 3-1/2"**.
3. MEASURE DOWN **95"** FROM THE TOP RETAINER AND STRIKE A CHALK LINE WITH A LASER LINE OR WATER LEVEL. INSTALL THE BOTTOM OF THE LOWER RETAINER TO THIS LINE. IT IS VERY IMPORTANT THAT THE BOTTOM RETAINER IS PERFECTLY LEVEL AND THAT THE TOP AND BOTTOM RETAINER REMAIN PARALLEL AND AT **95"** FROM TOP TO BOTTOM.
4. UPPER AND LOWER RETAINERS SHOULD BE INSTALLED WITH **#7 x 1-1/4"** BUGLE HEAD PHILLIPS HEAD SCREWS THROUGH THE FACTORY LOCATED HOLES EVERY 12" APART AND APPROX. **1-1/2"** FROM EACH END OF THE INDIVIDUAL CHANNELS.



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DATE

10/30/2019

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WS

DRAWING NUMBER

R01360-01

REVISION LEVEL

07

TOLERANCES (unless otherwise specified)

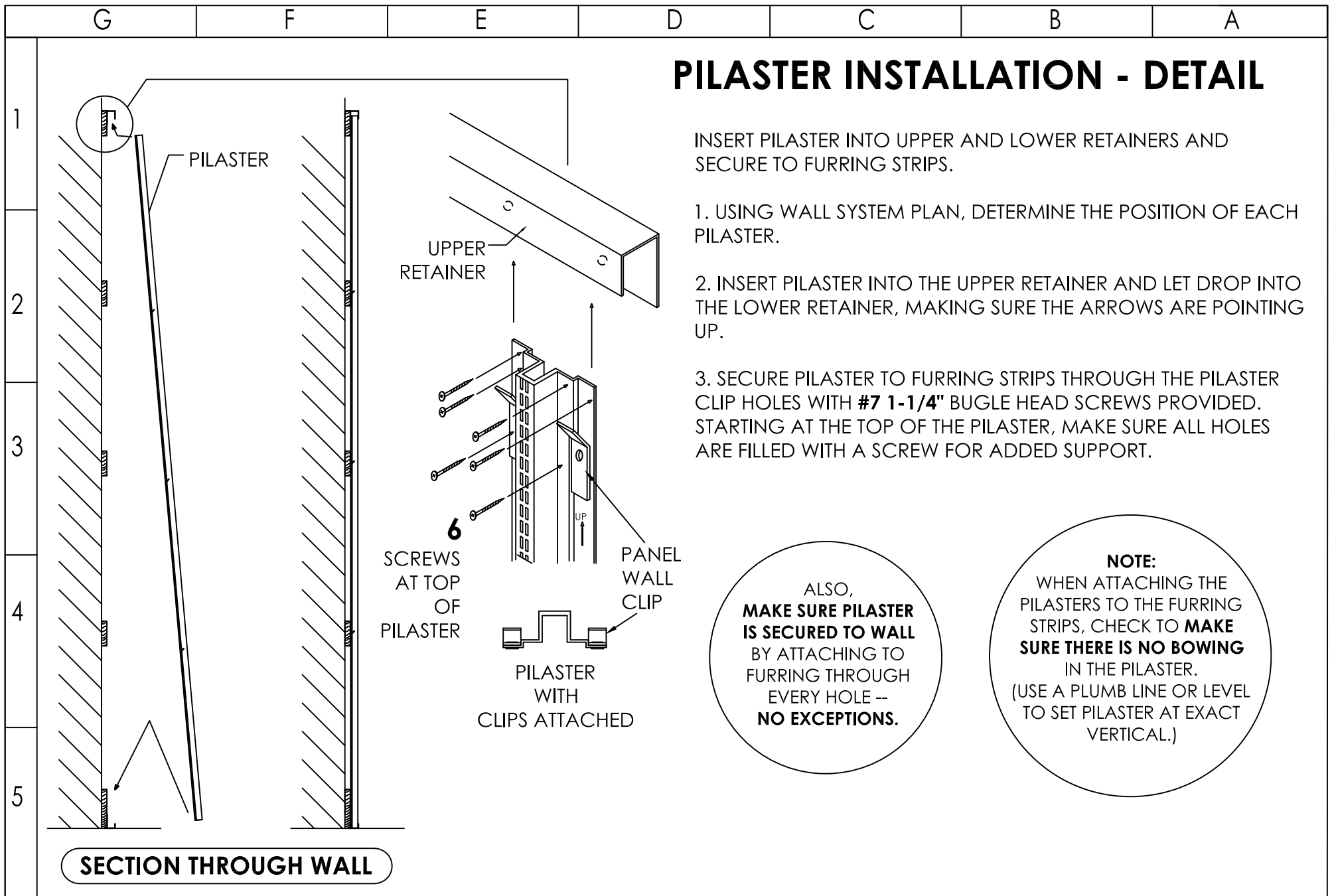
Standard Aluminum Association tolerances
apply unless otherwise noted

MATERIAL

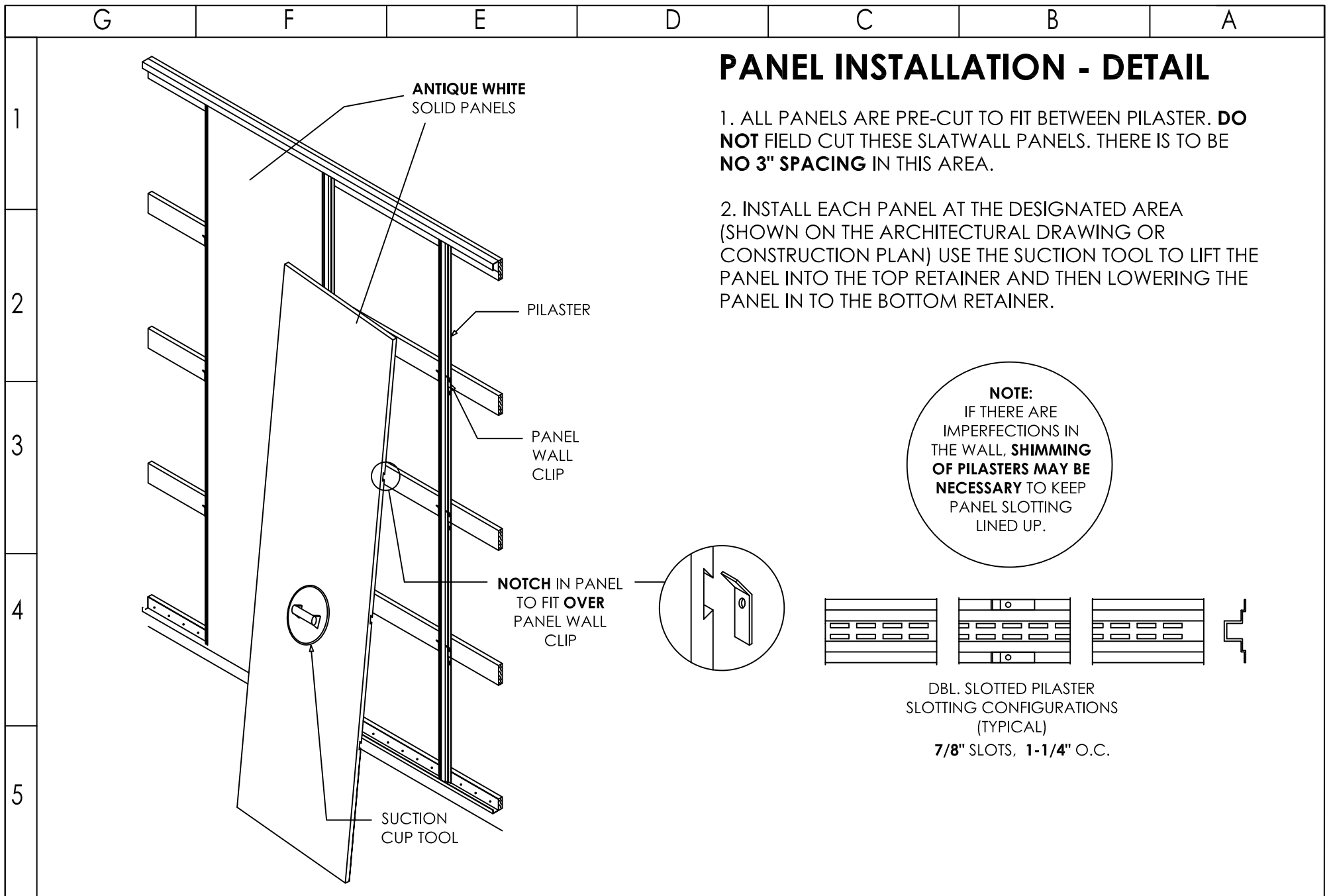
A0106 / CSDK

DESCRIPTION

RETAINER INSTALLATION



 Custom Retail Group 6311 Busch Boulevard Columbus, OH 43229 Phone: 614-409-9720	SCALE TOLERANCES (unless otherwise specified) Standard Aluminum Association tolerances apply unless otherwise noted	SPECIAL INSTRUCTIONS SEE BOM FOR COLOR AND FINISH DETAILS	PAGE 7 OF 13	ENGINEER JFL	DATE 10/30/2019	CLASS WS	DRAWING NUMBER R01360-01	REVISION LEVEL 07
Distribution and use of this drawing must have prior approval of CRG Worldwide	MATERIAL A0106 / CSDK			DESCRIPTION PILASTER INSTALLATION - DETAIL				



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07

TOLERANCES (unless otherwise specified)

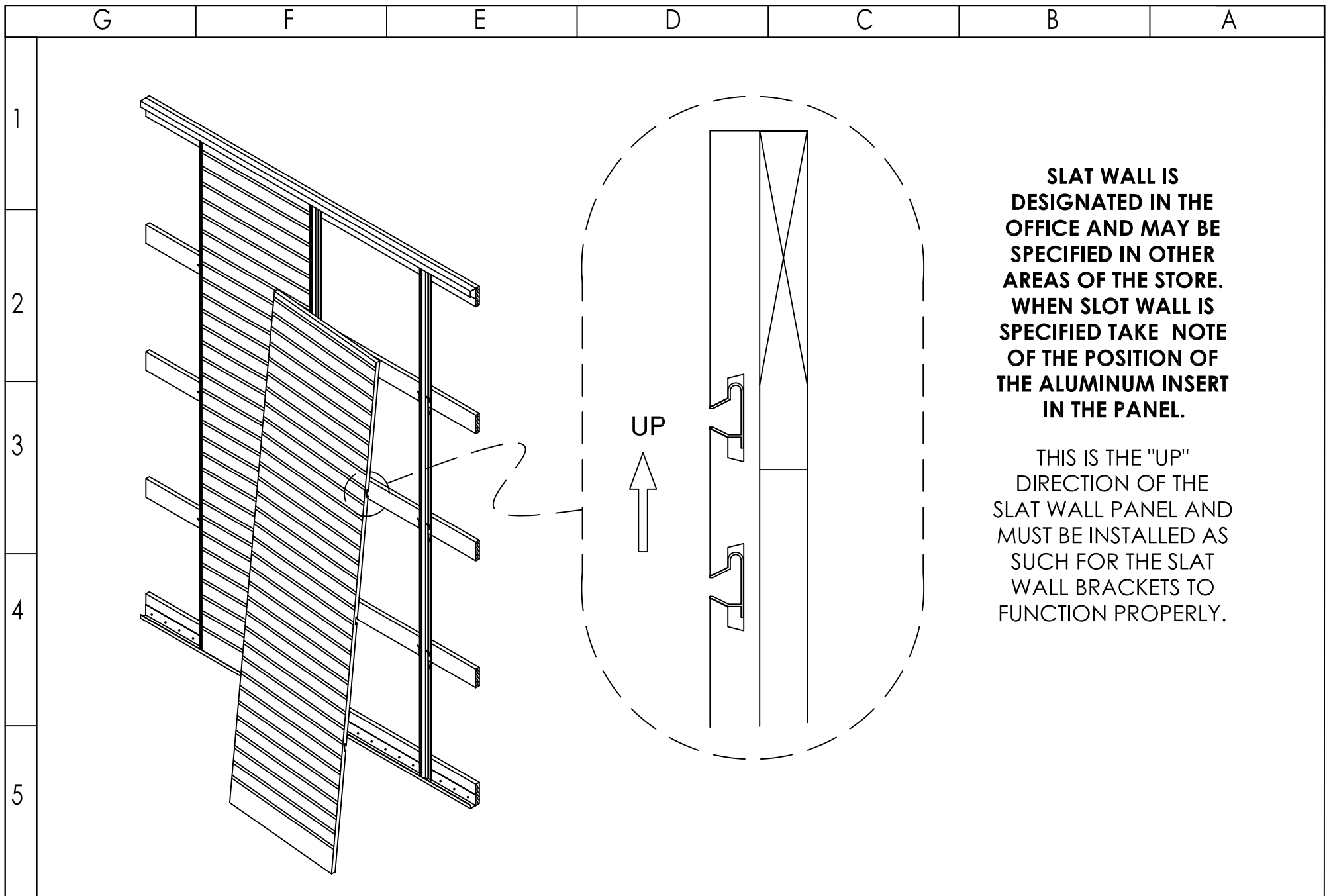
Standard Aluminum Association tolerances
apply unless otherwise noted

MATERIAL

A0106 / CSDK

DESCRIPTION

PANEL INSTALLATION - DETAIL



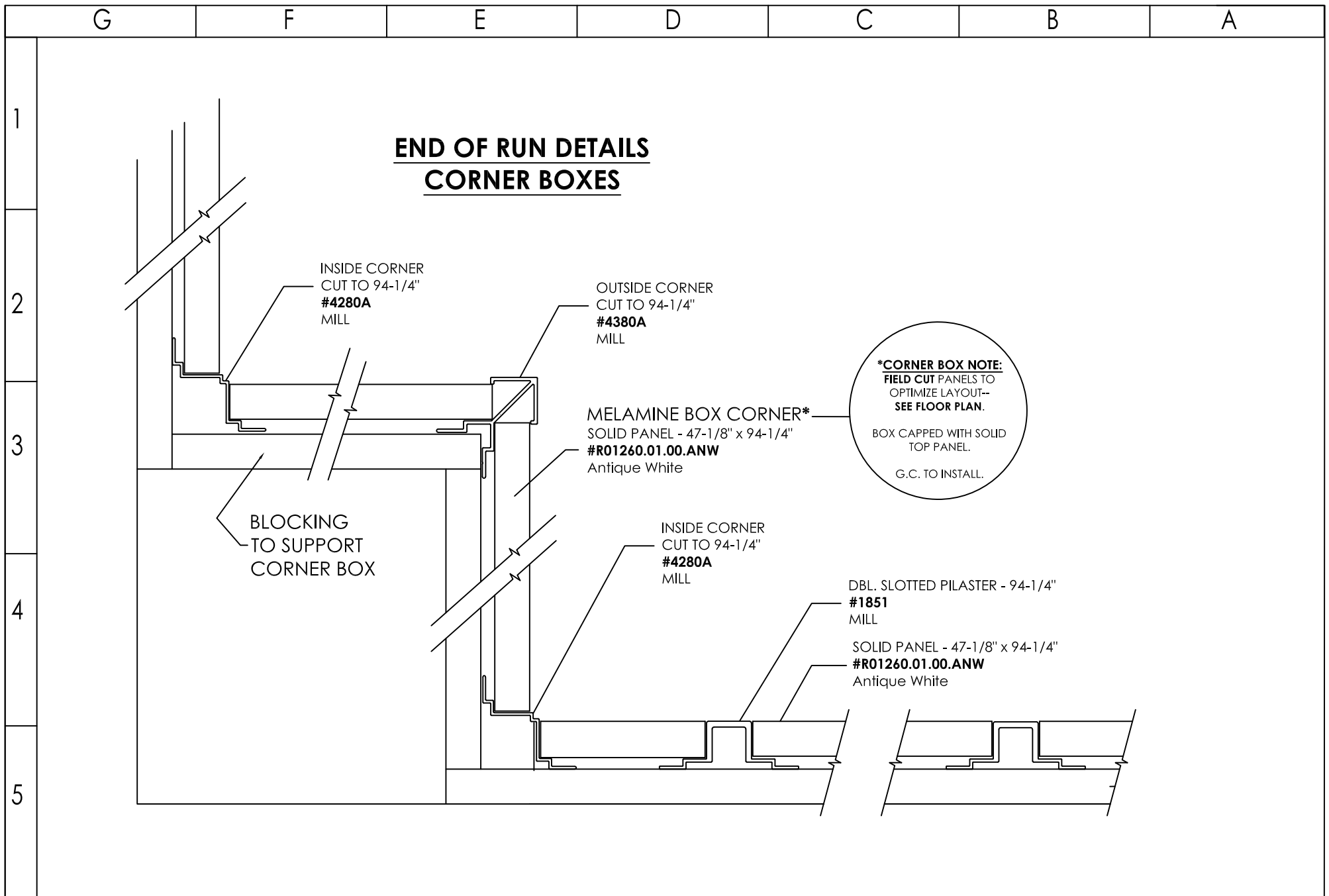
SLAT WALL IS DESIGNATED IN THE OFFICE AND MAY BE SPECIFIED IN OTHER AREAS OF THE STORE. WHEN SLOT WALL IS SPECIFIED TAKE NOTE OF THE POSITION OF THE ALUMINUM INSERT IN THE PANEL.

THIS IS THE "UP" DIRECTION OF THE SLAT WALL PANEL AND MUST BE INSTALLED AS SUCH FOR THE SLAT WALL BRACKETS TO FUNCTION PROPERLY.

 Custom Retail Group 6311 Busch Boulevard Columbus, OH 43229 Phone: 614-409-9720	SCALE	SPECIAL INSTRUCTIONS SEE BOM FOR COLOR AND FINISH DETAILS	PAGE 9 OF 13	ENGINEER JFL	DATE 10/30/2019	CLASS WS	DRAWING NUMBER R01360-01	REVISION LEVEL 07
	TOLERANCES (unless otherwise specified) Standard Aluminum Association tolerances apply unless otherwise noted		MATERIAL A0106 / CSDK			DESCRIPTION ALUMINUM INSERT - DETAIL		

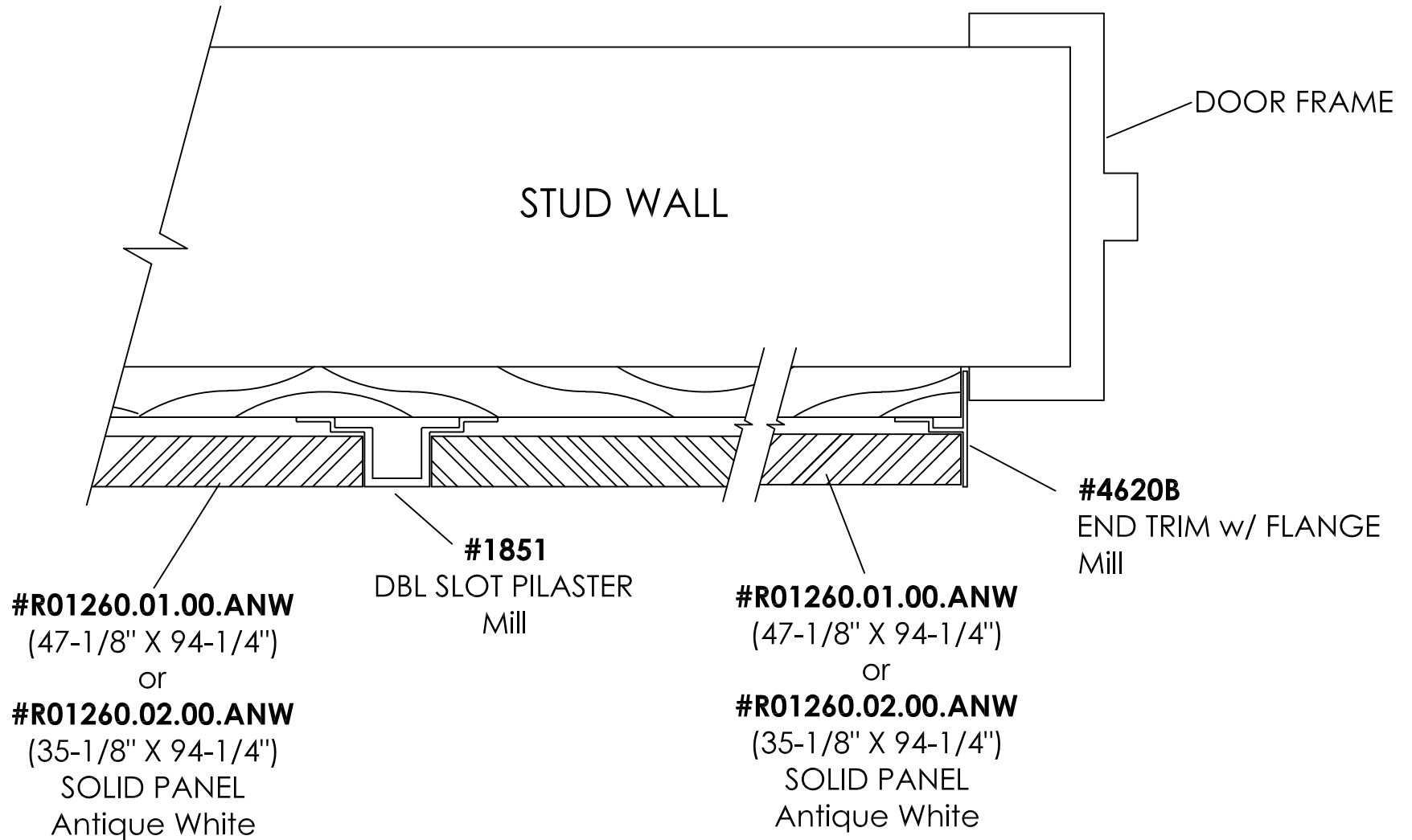
Distribution and use of this drawing must have prior approval

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 Custom Retail Group 6311 Busch Boulevard Columbus, OH 43229 Phone: 614-409-9720	SCALE 	SPECIAL INSTRUCTIONS SEE BOM FOR COLOR AND FINISH DETAILS	PAGE 10 OF 13	ENGINEER JFL	DATE 10/30/2019	CLASS WS	DRAWING NUMBER R01360-01	REVISION LEVEL 07
Distribution and use of this drawing must have prior approval of CRG Worldwide	TOLERANCES (unless otherwise specified) Standard Aluminum Association tolerances apply unless otherwise noted		MATERIAL A0106 / CSDK			DESCRIPTION END OF RUN DETAILS		

DETAIL AT DOORWAY



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DRAWING NUMBER

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TOLERANCES (unless otherwise specified)

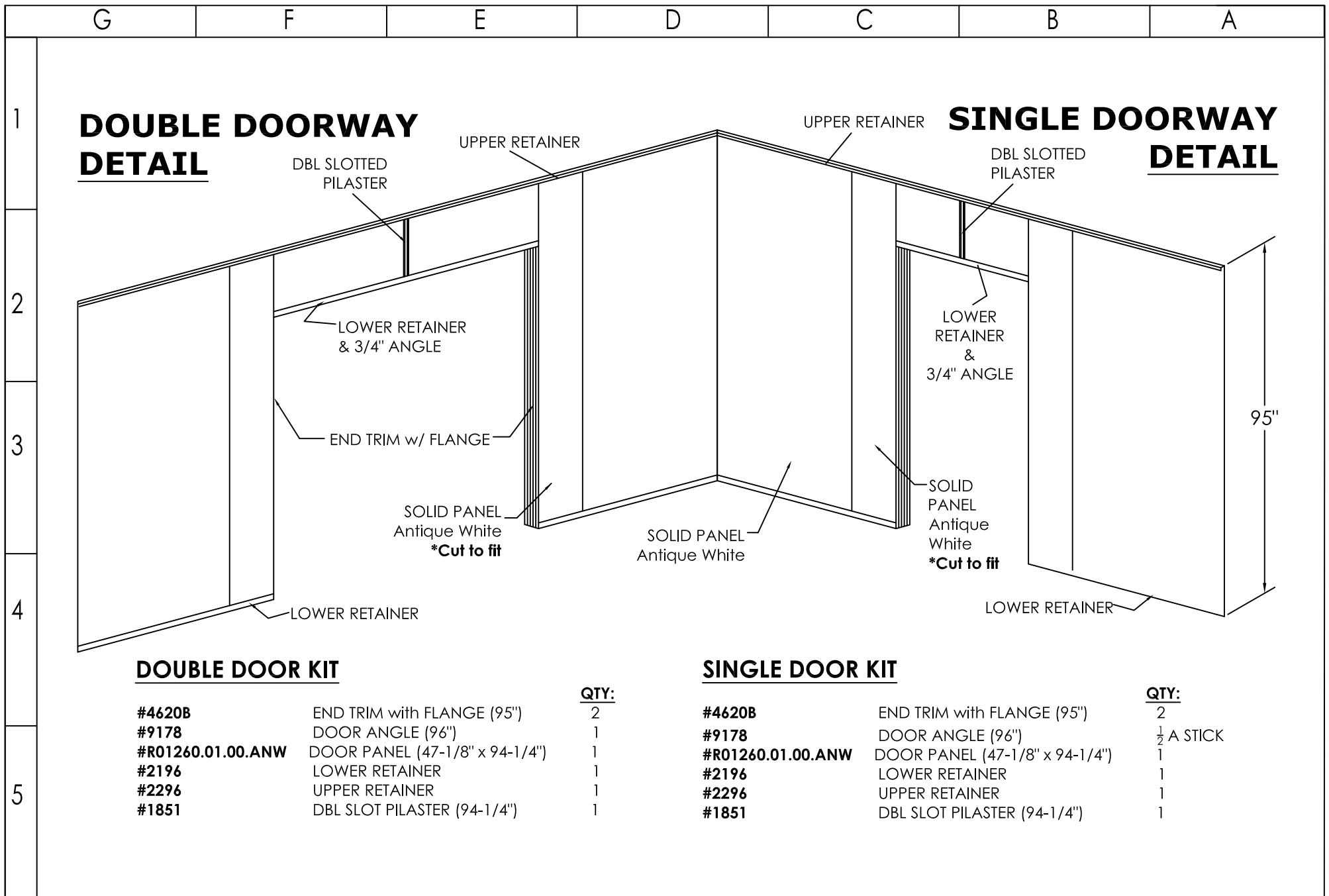
Standard Aluminum Association tolerances
apply unless otherwise noted

MATERIAL

A0106 / CSDK

DESCRIPTION

DETAIL AT DOORWAY



Custom Retail Group
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RO1360-01

REVISION LEVEL

07

TOLERANCES (unless otherwise specified)

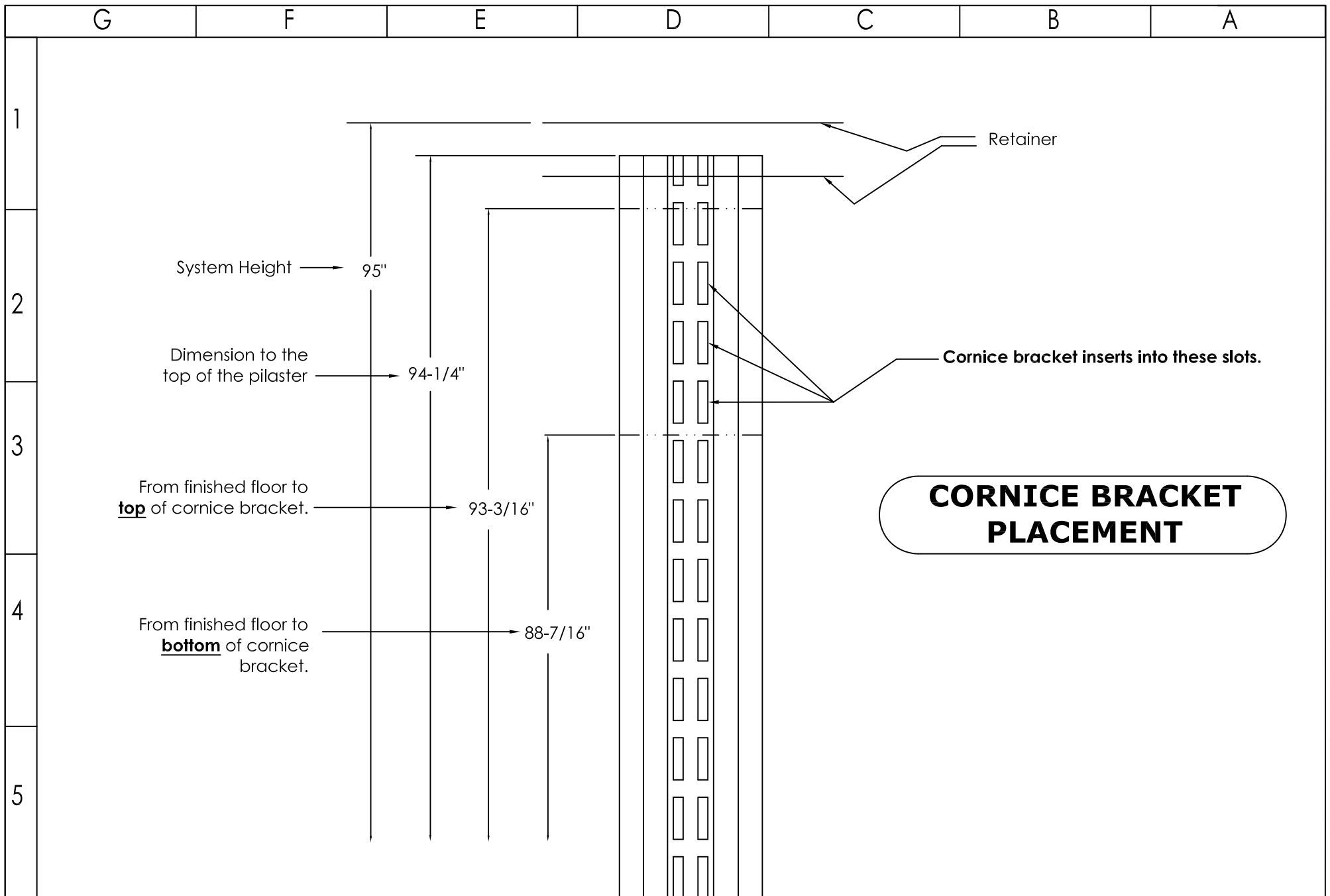
Standard Aluminum Association tolerances
apply unless otherwise noted

MATERIAL

A0106 / CSDK

DESCRIPTION

DOOR (PANEL) DETAILS



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R01360-01

REVISION LEVEL

07

TOLERANCES (unless otherwise specified)

Standard Aluminum Association tolerances
apply unless otherwise noted

MATERIAL

A0106 / CSDK

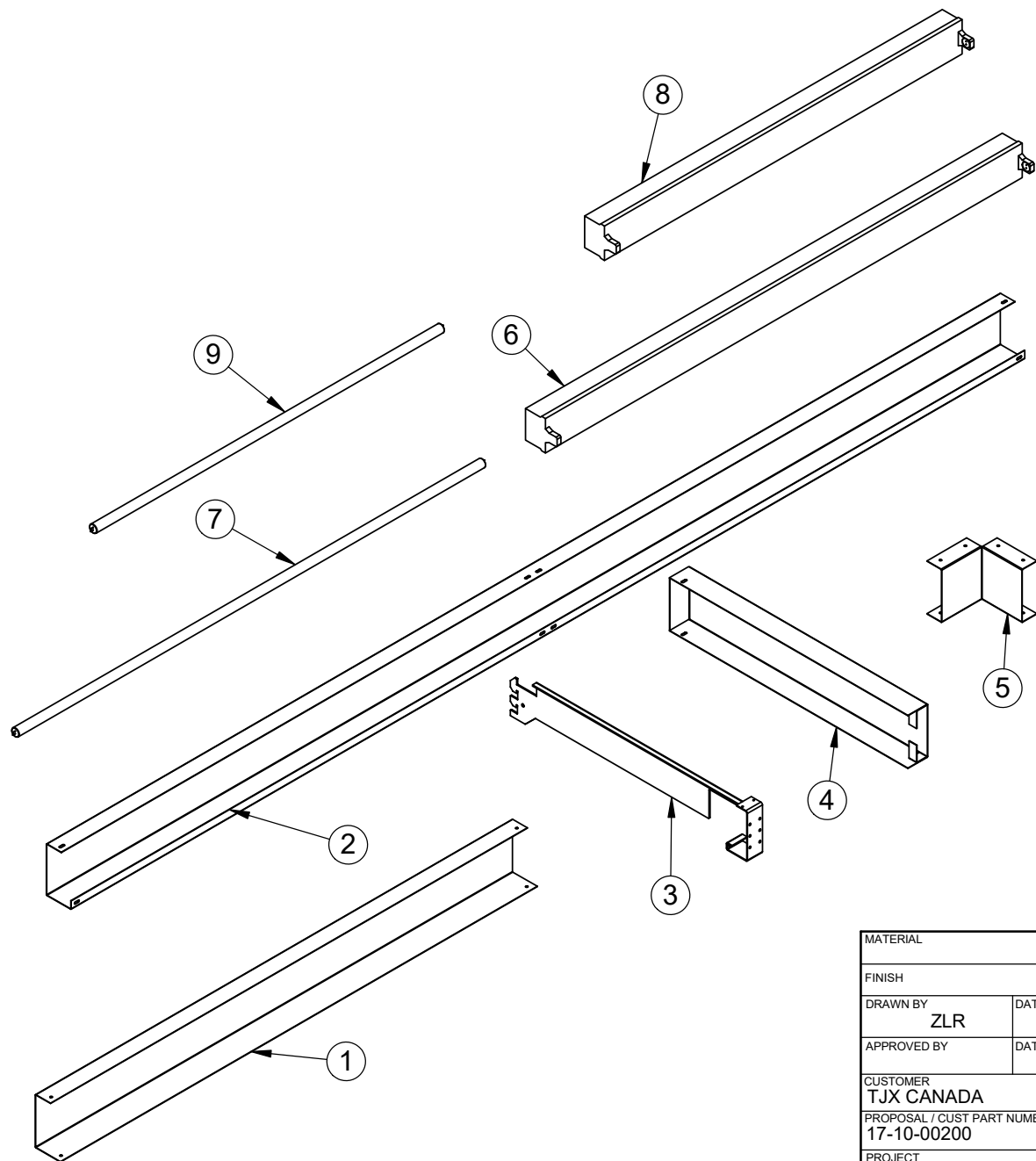
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CORNICE BRACKET PLACEMENT

VALANCE INSTRUCTIONS

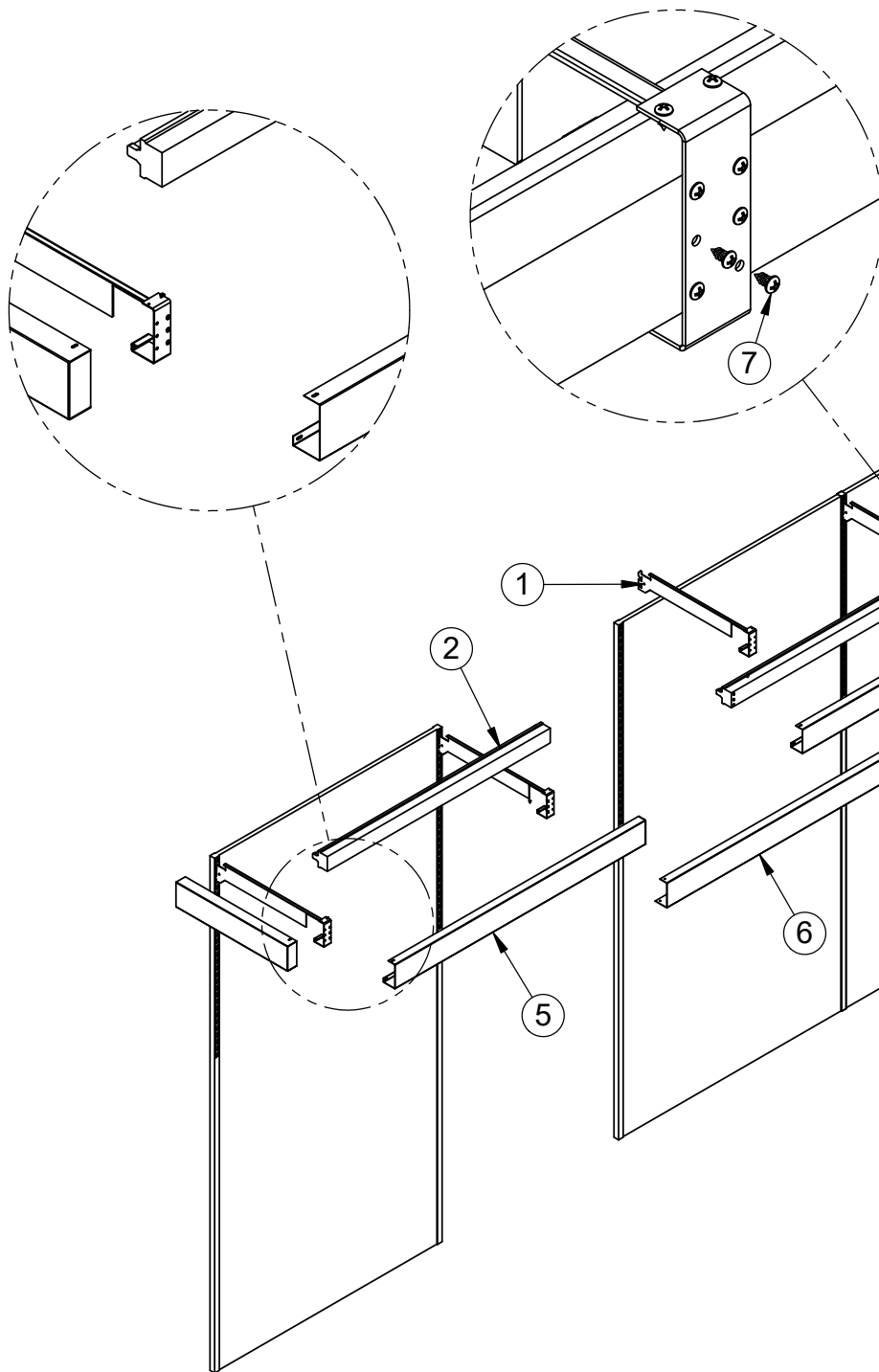


REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPROVED
1	UPDATED ASSEMBLY INSTRUCTIONS	MA	MAR/20/2019	T.C.



9	36" LED TUBE
8	36" LAMP FIXTURE
7	48" LED TUBE
6	48" LAMP FIXTURE
5	4" INSIDE CORNER FILLER
4	24" END COVER ASSEMBLY
3	24" RAISED EXT. BRACKET ASSEM
2	METAL VALANCE
1	FILLER PANEL
ITEM#	DESCRIPTION

MATERIAL		WEIGHT LBS		CONCORD METAL MANUFACTURING INC. 60 Citation Dr, Concord, Ontario L4K 2W9 TEL: 905-738-2127 EMAIL: acad@concordmetal.com		PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF CONCORD METAL MANUF. INC.			
FINISH									
DRAWN BY ZLR		DATE Jun 01, 2017							
APPROVED BY		DATE							
CUSTOMER TJX CANADA				ASSEMBLY/PART No. A001525				TOLERANCE: (N.O.S.) DECIMALS ANGULAR XXX ±.015 ±0.5 DIMENSIONS ARE IN INCHES	
PROPOSAL / CUST PART NUMBER 17-10-00200				ASSEMBLY/PART DESCRIPTION PARTS LIST				REV. 1	
PROJECT 4.5 INCH FLAT LIGHT VALANCE								SIZE A	SCALE 1:12	SHT 1 OF 10

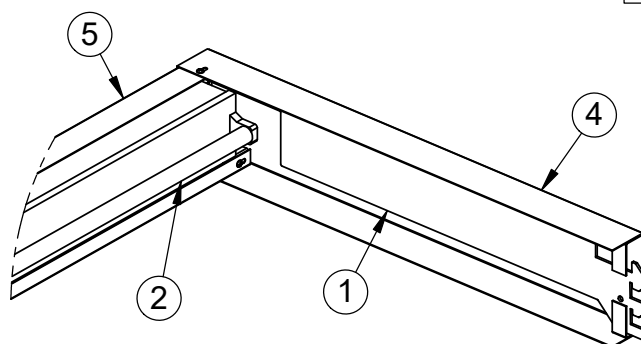


REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPROVED
1	UPDATED ASSEMBLY INSTRUCTIONS	MA	MAR/20/2019	T.C.

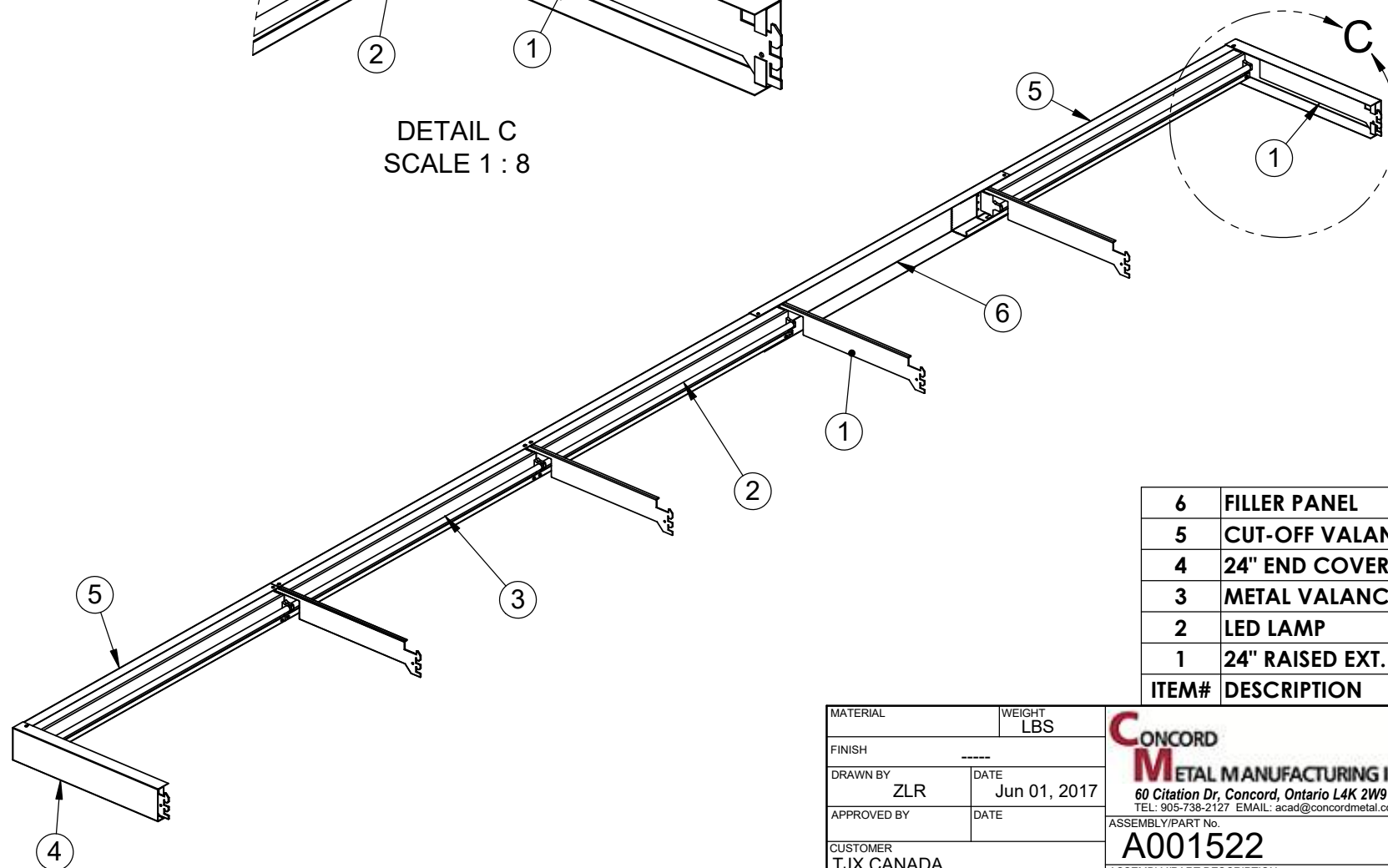
6	FILLER PANEL
5	CUT-OFF VALANCE
4	24" END COVER ASSEMBLY
3	METAL VALANCE
2	LED LAMP
1	24" RAISED EXT. BRACKET ASSEM
ITEM#	DESCRIPTION

MATERIAL	WEIGHT LBS	CONCORD METAL MANUFACTURING INC. 60 Citation Dr, Concord, Ontario L4K 2W9 TEL: 905-738-2127 EMAIL: acad@concordmetal.com	PROPRIETARY	
FINISH	-----		NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF CONCORD METAL MANUF. INC.	
DRAWN BY ZLR	DATE Jun 01, 2017		TOLERANCE: (N.O.S.) DECIMALS ANGULAR XXX ±.015 ±0.5° DIMENSIONS ARE IN INCHES	
APPROVED BY	DATE		ASSEMBLY/PART No. A001522	
CUSTOMER TJX CANADA	ASSEMBLY/PART DESCRIPTION		REV.	
PROPOSAL / CUST PART NUMBER 17-10-00200	GENERAL ASSEMBLY-FRONT VIEW		1	
PROJECT 4.5 INCH FLAT LIGHT VALANCE	SIZE A	SCALE 1:28	SHT 2 OF 10	

REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPROVED
1	UPDATED ASSEMBLY INSTRUCTIONS	MA	MAR/20/2019	T.C.



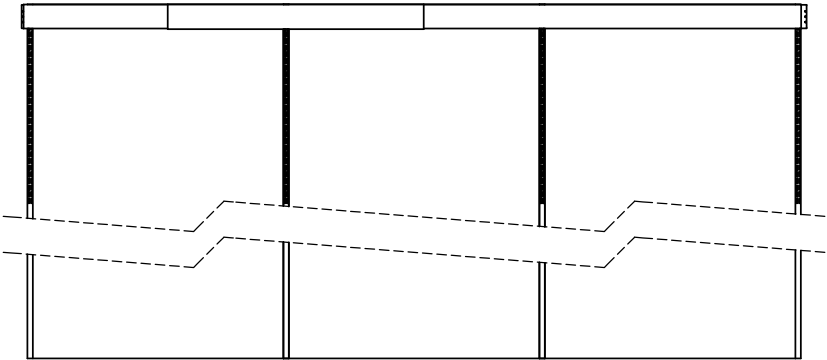
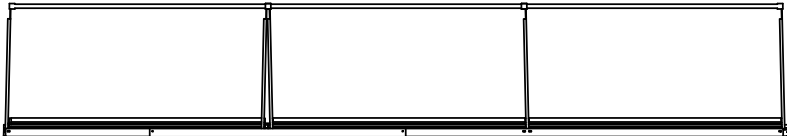
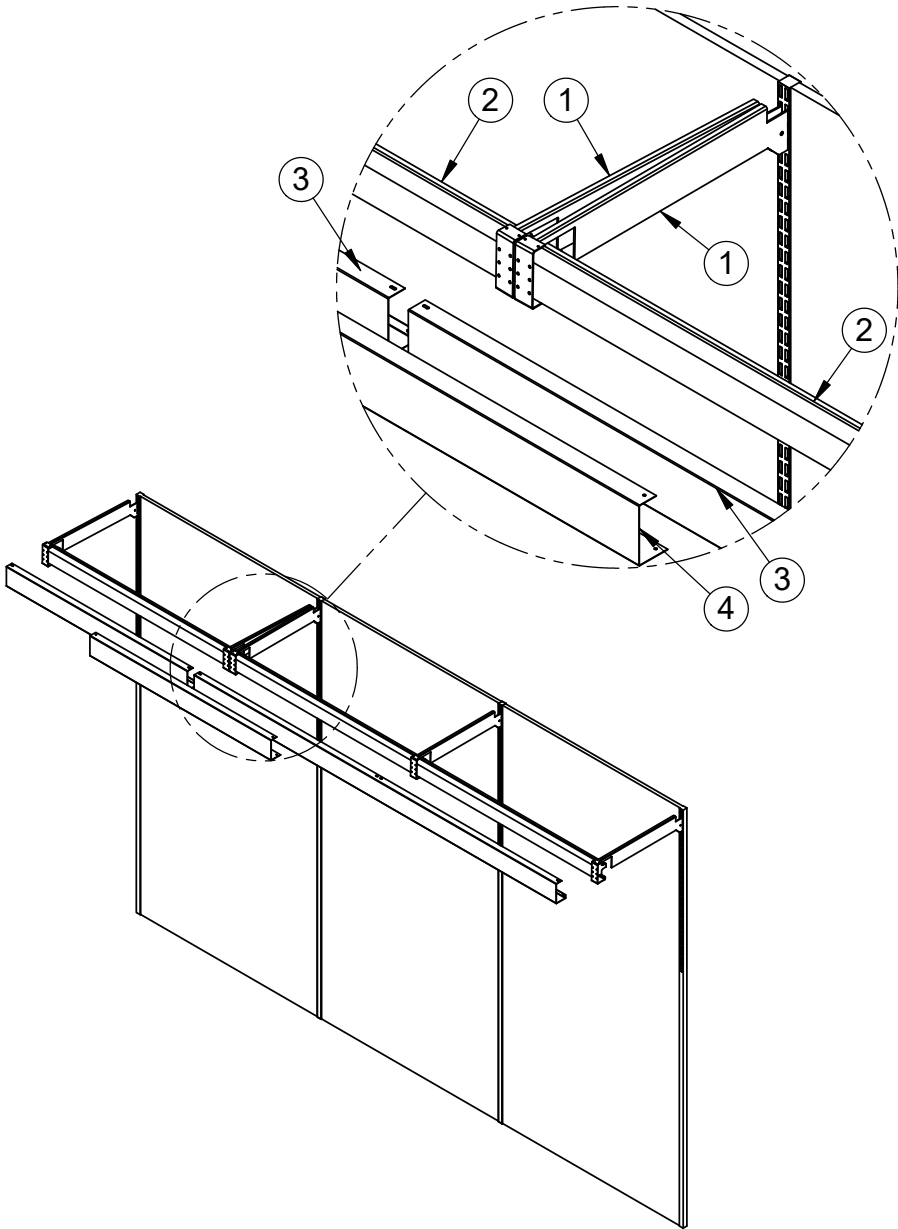
DETAIL C
SCALE 1 : 8



6	FILLER PANEL
5	CUT-OFF VALANCE
4	24" END COVER ASSEMBLY
3	METAL VALANCE
2	LED LAMP
1	24" RAISED EXT. BRACKET ASSEM
ITEM#	DESCRIPTION

MATERIAL	WEIGHT LBS	CONCORD METAL MANUFACTURING INC 60 Citation Dr, Concord, Ontario L4K 2W9 TEL: 905-738-2127 EMAIL: acad@concordmetal.com		PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF CONCORD METAL MANUF. INC.	
FINISH	----				
DRAWN BY ZLR	DATE Jun 01, 2017	ASSEMBLY/PART No. A001522		TOLERANCE: (N.O.S.) DECIMALS ANGULAR .XXX ±.015 ±0.5° DIMENSIONS ARE IN INCHES	
APPROVED BY	DATE				
CUSTOMER TJX CANADA	PROPOSAL / CUST PART NUMBER 17-10-00200	ASSEMBLY/PART DESCRIPTION GENERAL ASSEMBLY-BACK VIEW		REV.	1
PROJECT 4.5 INCH FLAT LIGHT VALANCE	SIZE A	SCALE 1:20	SHT 3 OF 10		

REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPROVED
1	UPDATED ASSEMBLY INSTRUCTIONS	MA	MAR/20/2019	T.C.



NOTE:

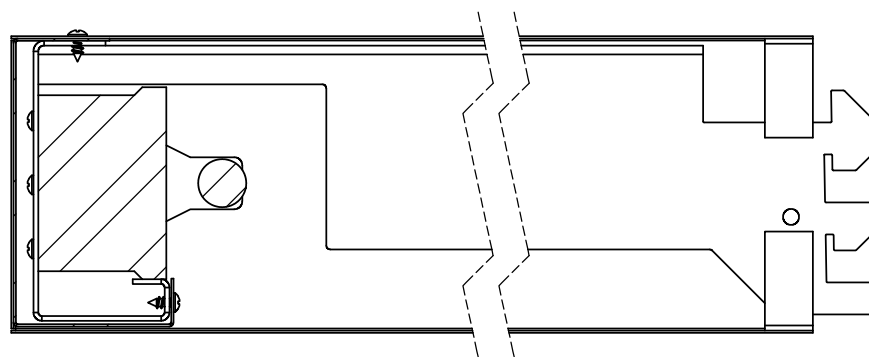
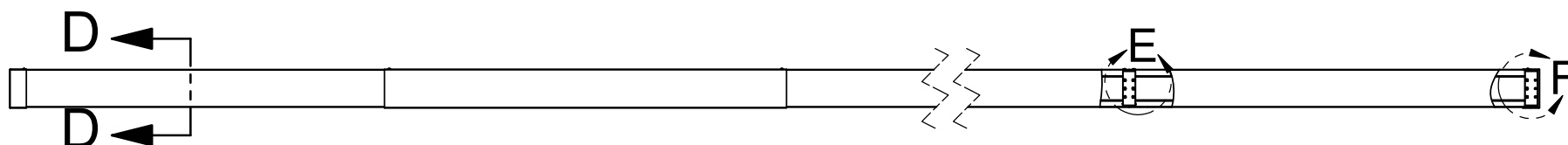
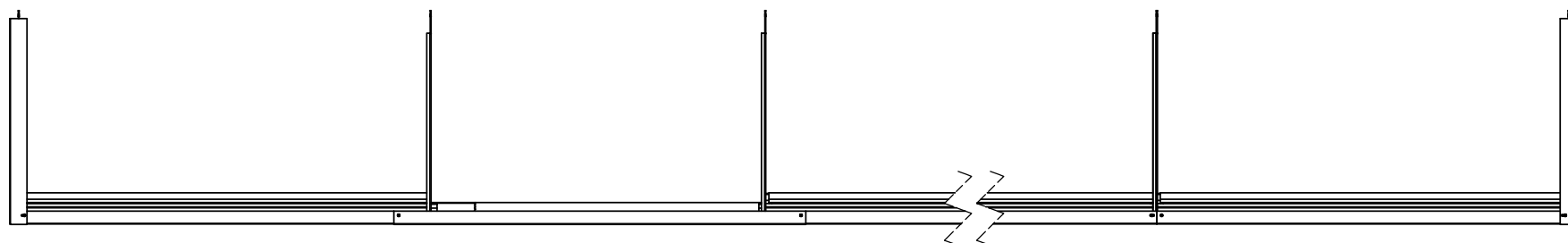
WINNERS & HOMESENSE LAYOUTS MAY EXPERIENCE SIDE-WAY CREEPING OVER VERY LONG RUNS. THIS IS DUE TO INCONSISTANCIES OF UP TO 1/8" PER 4 FT. SECTION. WHEN THIS OCCURS, INSTALLER SHOULD INSERT AN EXTRA BRACKET (ITEM 1, AS SHOWN) AND COVER FRONT GAP WITH FILLER PANEL (ITEM 4) PROVIDED. THIS SHOULD BE DONE EVERY 8 TO 16 SECTIONS AS REQUIRED.

THIS DOES NOT APPLY TO MARSHALLS LAYOUT

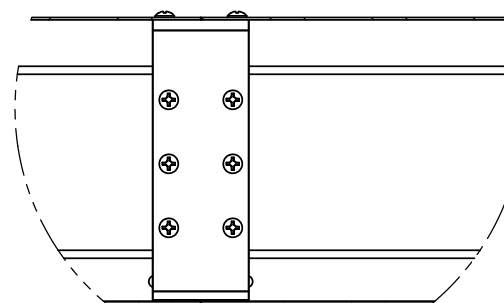
4	P01010357	FILLER PANEL	
3	P01010353	METAL VALANCE	
2	P01010355	LED LAMP	
1	A001521	24" RAISED EXT. BRACKET ASSEM	
ITEM#	PART NO.	DESCRIPTION	REMARKS

MATERIAL		WEIGHT 3279.05 LB		C CONCORD M METAL MANUFACTURING INC 60 Citation Dr, Concord, Ontario L4K 2W9 TEL: 905-738-2127 EMAIL: acad@concordmetal.com		PROPRIETARY		
FINISH						NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF CONCORD METAL MANUF. INC. TOLERANCE: (N.O.S.) DECIMALS ANGULAR .XXX ±.015 ±0.5 DIMENSIONS ARE IN INCHES		
DRAWN BY ZLR		DATE Jun 01, 2017						
APPROVED BY		DATE						
CUSTOMER TJX CANADA				ASSEMBLY/PART No. A002521		REV. 1		
PROPOSAL / CUST PART NUMBER 17-10-00200				ASSEMBLY/PART DESCRIPTION CREEPING FIX				
PROJECT 4.5 INCH FLAT LIGHT VALANCE						SIZE A	SCALE 1:36	SHT 4 OF 10

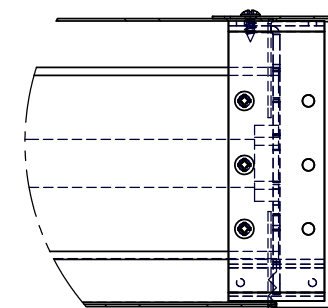
REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPROVED
1	UPDATED ASSEMBLY INSTRUCTIONS	MA	MAR/20/2019	T.C.



SECTION D-D
SCALE 1 : 3

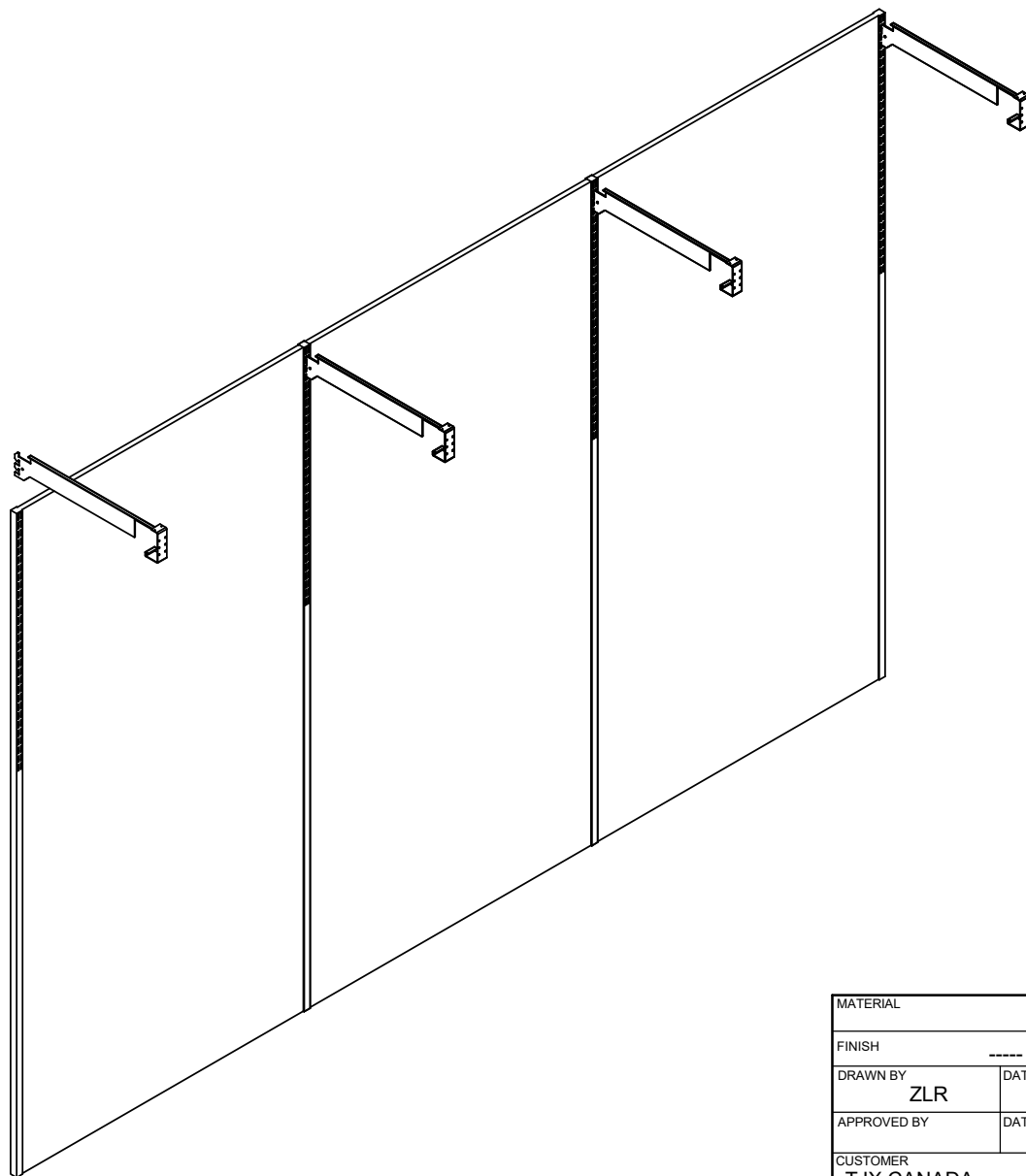


DETAIL E
SCALE 1 : 3



DETAIL F
SCALE 1 : 3

MATERIAL		WEIGHT LBS		CONCORD METAL MANUFACTURING INC 60 Citation Dr, Concord, Ontario L4K 2W9 TEL: 905-738-2127 EMAIL: acad@concordmetal.com	PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF CONCORD METAL MANUF. INC.
FINISH -----					
DRAWN BY ZLR	DATE Jun 01, 2017				
APPROVED BY	DATE				
CUSTOMER TJX CANADA		ASSEMBLY/PART No. A001522			TOLERANCE: (N.O.S.) DECIMALS ANGULAR XXX ±.015 ±0.5 DIMENSIONS ARE IN INCHES
PROPOSAL / CUST PART NUMBER 17-10-00200		ASSEMBLY/PART DESCRIPTION GENERAL ASSEMBLY-DETAILS			REV. 1
PROJECT 4.5 INCH FLAT LIGHT VALANCE		SIZE A	SCALE 1:20	SHT 5 OF 10	

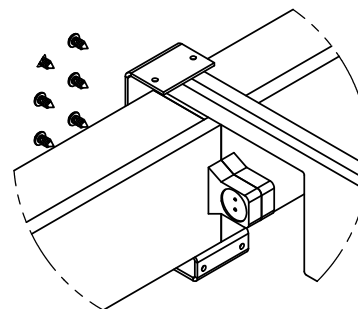
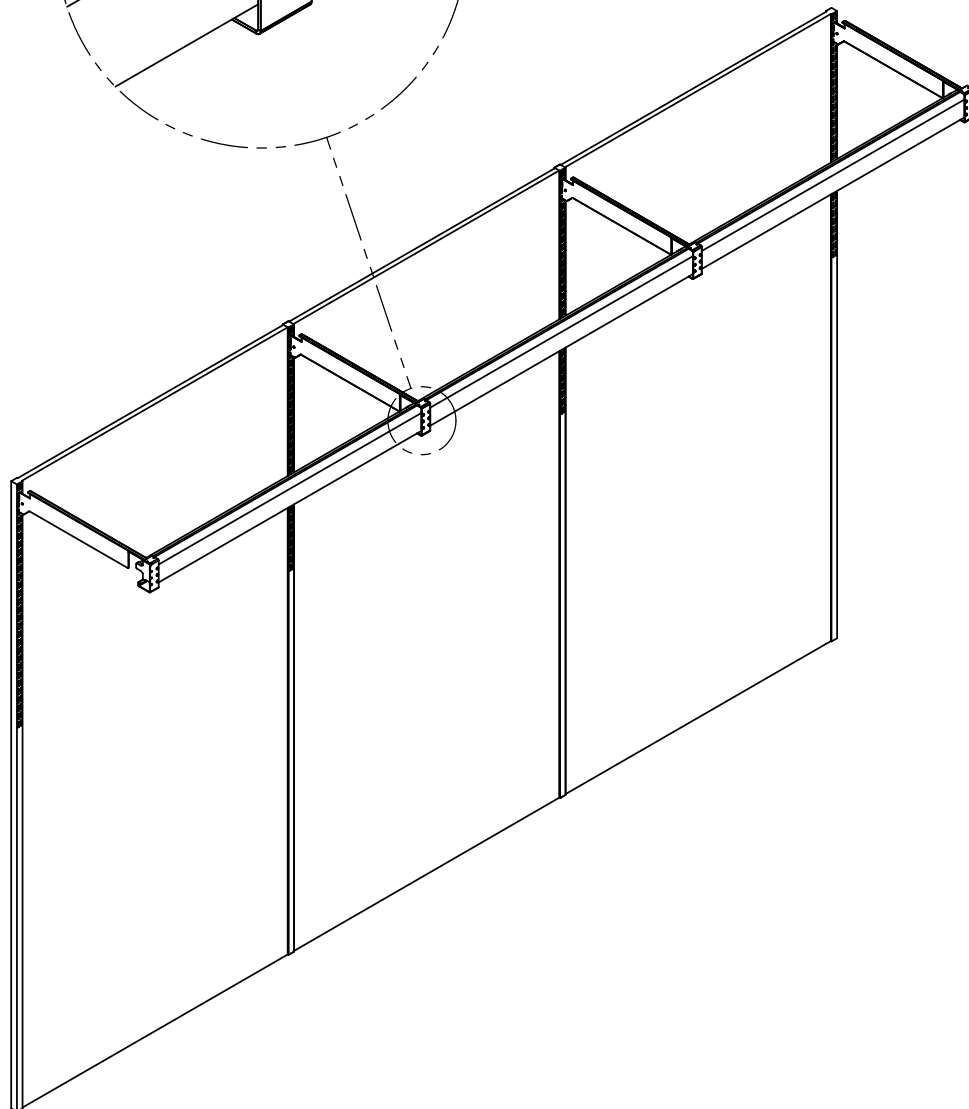
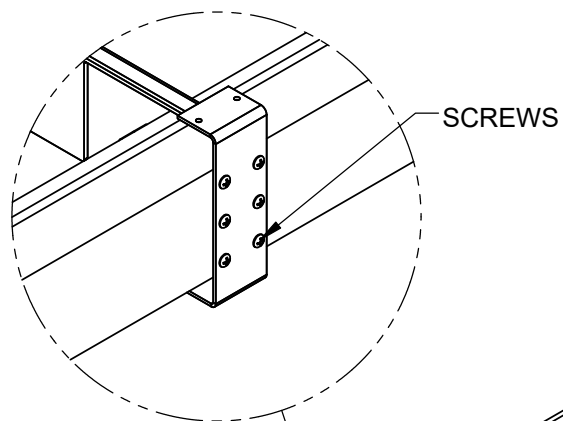


STEP 1:
INSTALL EXTENSION BRACKETS USING TOP SLOTS
ALONG WALL WHERE VALANCE IS REQUIRED.

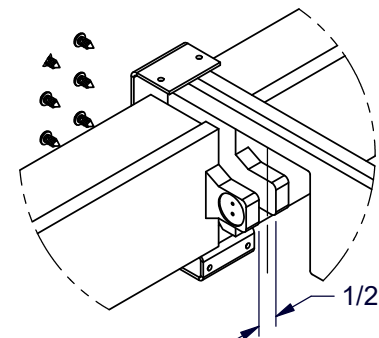
REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPROVED
1	UPDATED ASSEMBLY INSTRUCTIONS	MA	MAR/20/2019	T.C.

MATERIAL		WEIGHT LBS		 CONCORD METAL MANUFACTURING INC. 60 Citation Dr, Concord, Ontario L4K 2W9 TEL: 905-738-2127 EMAIL: acad@concordmetal.com		PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF CONCORD METAL MANUF. INC.		
FINISH		DATE						
DRAWN BY ZLR		DATE Jun 01, 2017		ASSEMBLY/PART No. A001522		TOLERANCE: (N.O.S.) DECIMALS ANGULAR .XXX ±.015 ±0.5° DIMENSIONS ARE IN INCHES		
APPROVED BY		DATE						
CUSTOMER TJX CANADA		PROPOSAL / CUST PART NUMBER 17-10-00200		ASSEMBLY/PART DESCRIPTION ASSEMBLY INSTRUCTION		REV. 1		
PROJECT 4.5 INCH FLAT LIGHT VALANCE						SIZE A	SCALE 1:22	SHT 6 OF 10

REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPROVED
1	UPDATED ASSEMBLY INSTRUCTIONS	MA	MAR/20/2019	T.C.



FOR HOMESENSE & WINNERS
- NO GAP



FOR MARSHALLS
- 1/2" GAP

STEP 2:

MOUNT LAMP FIXTURES AS SHOWN USING #8 X 1/2" SELF DRILLING SCREWS (PROVIDED).

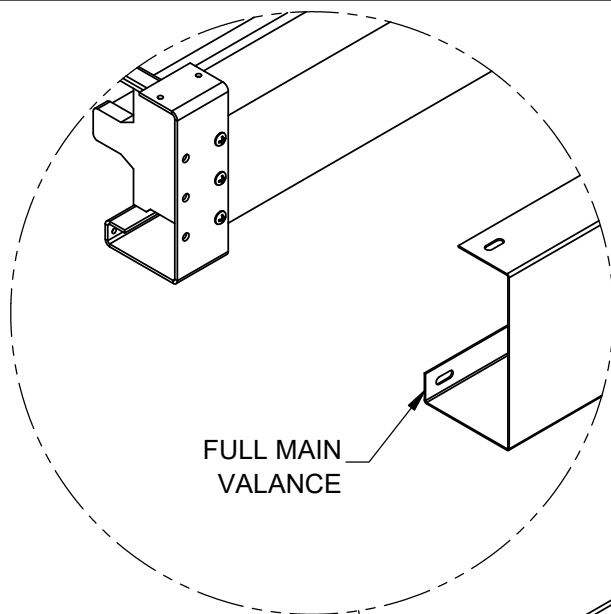
NOTE: MAINTAIN THE SAME CEN. TO CEN. SPACING AT FRONT AS AT REAR OF BRACKETS
48" C-C FOR HOMESENSE & WINNERS
48 1/2" C-C FOR MARSHALLS

STEP 3:

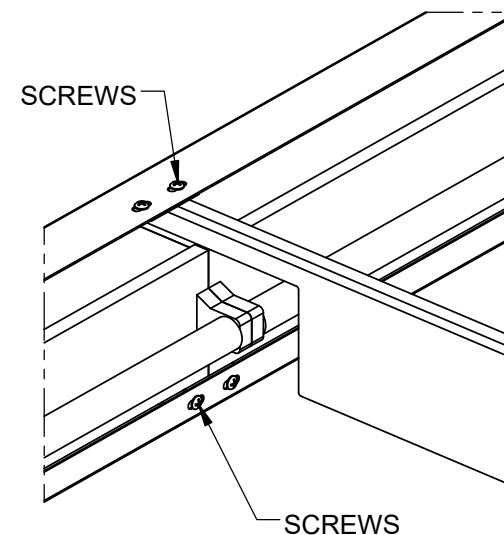
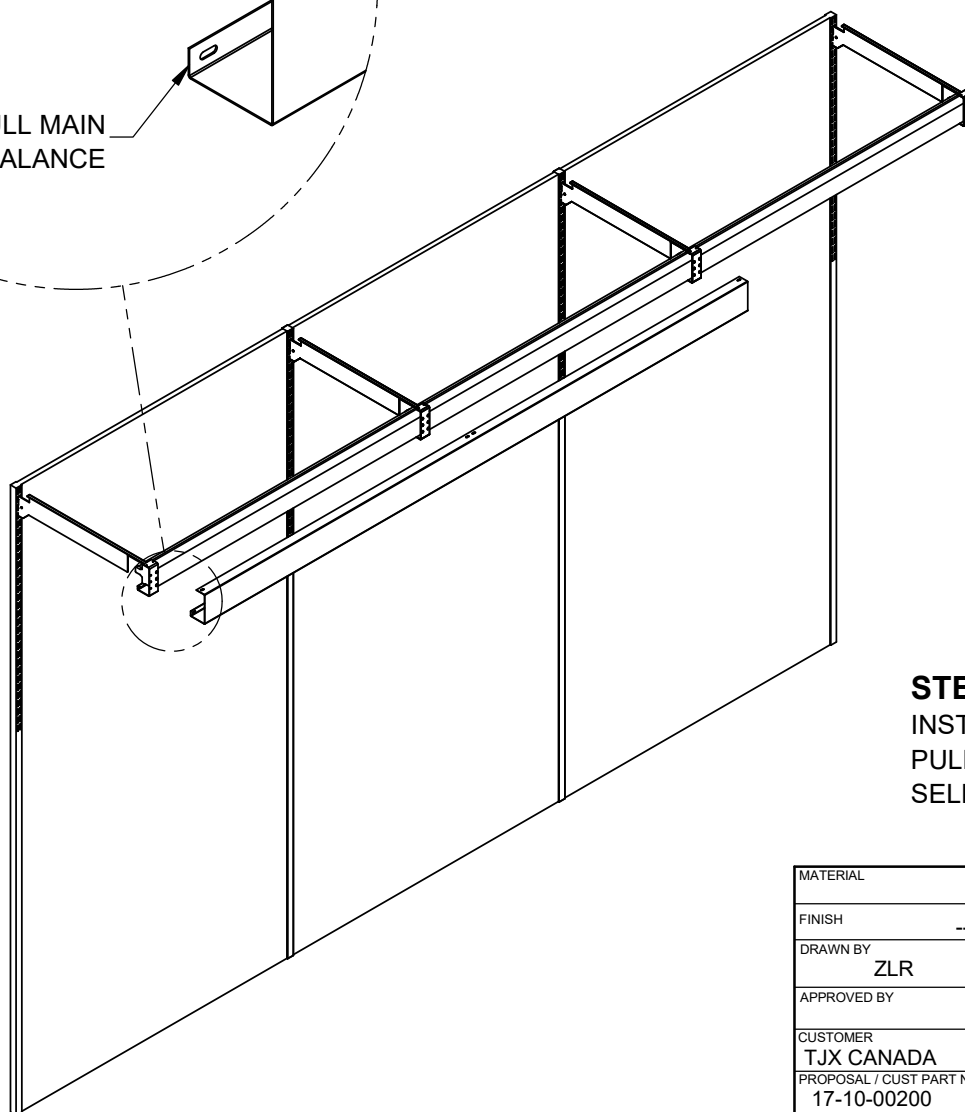
INSERT LED LAMP TUBE.

MATERIAL	WEIGHT LBS	CONCORD METAL MANUFACTURING INC 60 Citation Dr, Concord, Ontario L4K 2W9 TEL: 905-738-2127 EMAIL: acad@concordmetal.com		PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF CONCORD METAL MANUF. INC.	
FINISH	-----				
DRAWN BY ZLR	DATE Jun 01, 2017				
APPROVED BY	DATE				
CUSTOMER TJX CANADA	ASSEMBLY/PART No. A001522		TOLERANCE: (N.O.S.) DECIMALS ANGULAR XXX ±.015 ±0.5° DIMENSIONS ARE IN INCHES		REV. 1
PROPOSAL / CUST PART NUMBER 17-10-00200	ASSEMBLY/PART DESCRIPTION ASSEMBLY INSTRUCTION				
PROJECT 4.5 INCH FLAT LIGHT VALANCE	SIZE A	SCALE 1:24	SHT 7 OF 10		

REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPROVED
1	UPDATED ASSEMBLY INSTRUCTIONS	MA	MAR/20/2019	T.C.



FULL MAIN
VALANCE

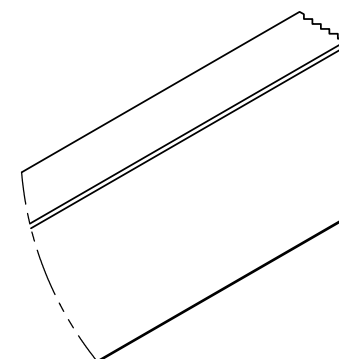
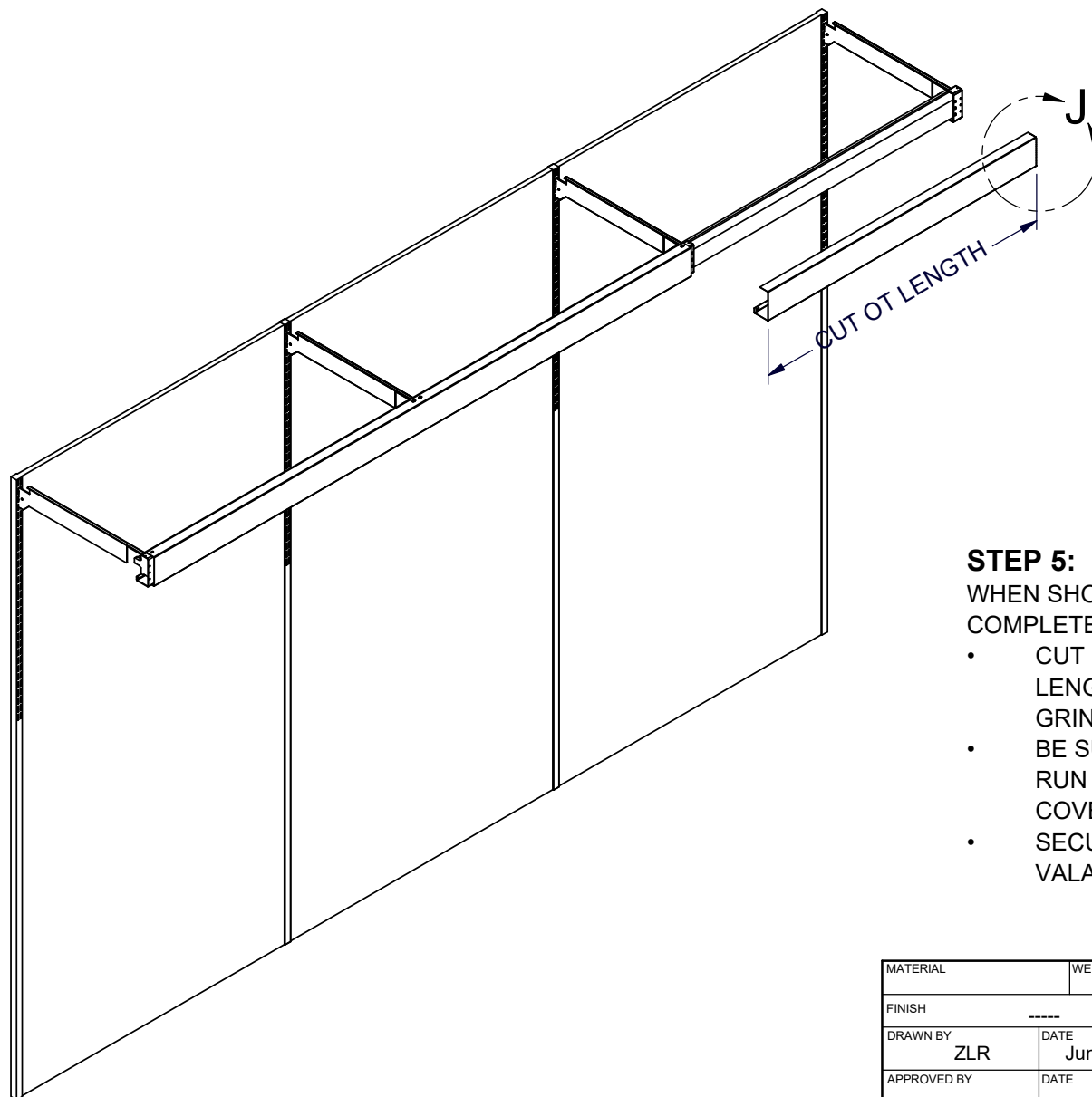


STEP 4:

INSTALL MAIN VALANCE BY HOOKING ON FROM BACK, AND PULLING OVER FRONT. SECURE IN PLACE USING #8 X 1/2" SELF DRILLING SCREWS (PROVIDED).

MATERIAL		WEIGHT LBS		C CONCORD M METAL MANUFACTURING INC 60 Citation Dr, Concord, Ontario L4K 2W9 TEL: 905-738-2127 EMAIL: acad@concordmetal.com		PROPRIETARY		
FINISH -----						NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF CONCORD METAL MANUF. INC.		
DRAWN BY ZLR		DATE Jun 01, 2017		ASSEMBLY/PART No. A001522		TOLERANCE: (N.O.S.) DECIMALS ANGULAR XXX ±.015 ±0.5 DIMENSIONS ARE IN INCHES		
APPROVED BY		DATE						
CUSTOMER TJX CANADA				ASSEMBLY/PART DESCRIPTION ASSEMBLY INSTRUCTION		REV. 1		
PROPOSAL / CUST PART NUMBER 17-10-00200								
PROJECT 4.5 INCH FLAT LIGHT VALANCE						SIZE A	SCALE 1:24	SHT 8 OF 10

REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPROVED
1	UPDATED ASSEMBLY INSTRUCTIONS	MA	MAR/20/2019	T.C.



DETAIL J
SCALE 1 : 4

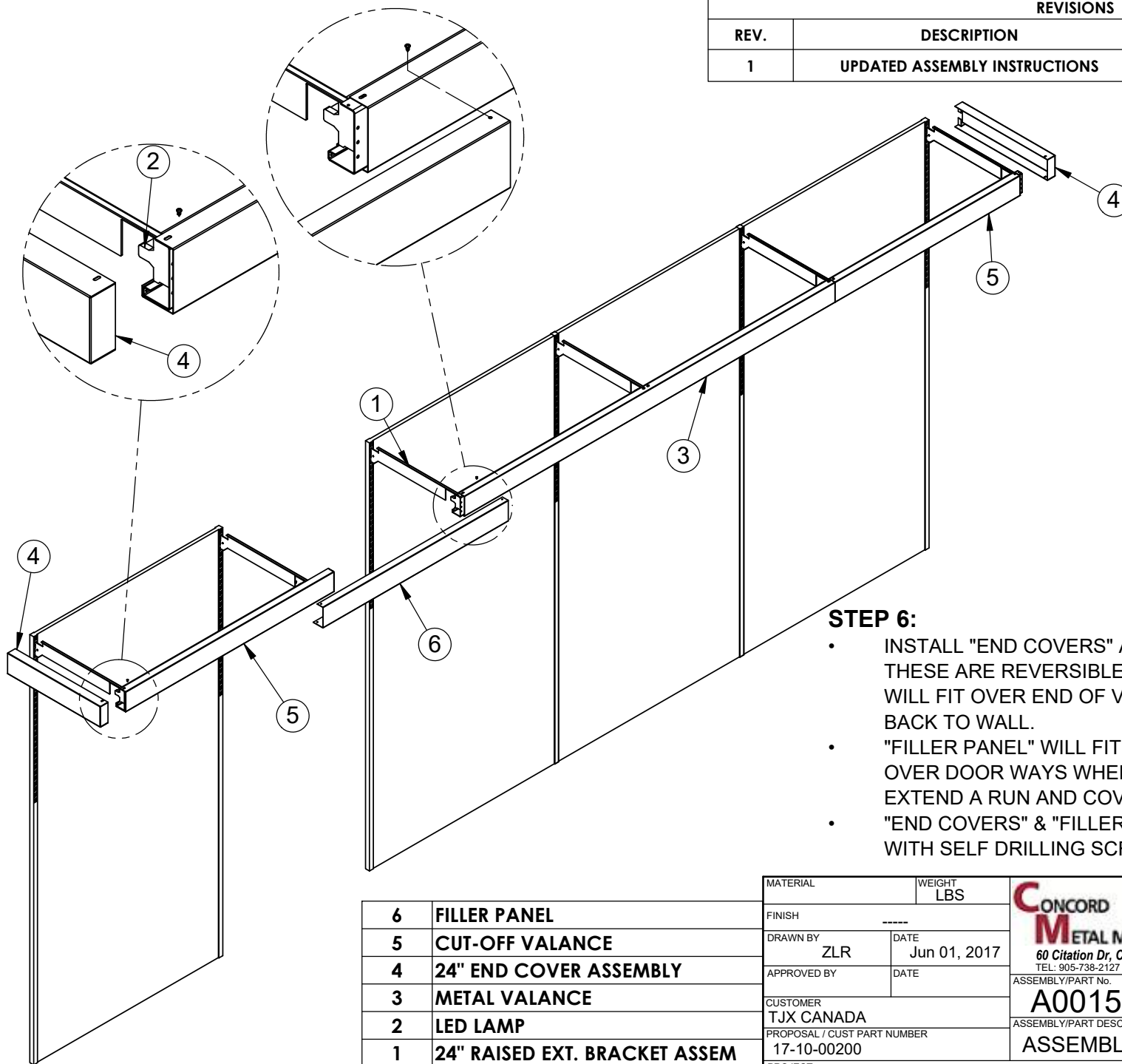
STEP 5:

WHEN SHORTER LENGTHS OF VALANCE ARE REQUIRED TO COMPLETE A RUN

- CUT DOWN FROM FULL MAIN VALANCE TO REQ'D LENGTH USING SAW, CUTTING DISC, SNIPS, ETC; GRIND/FILE TO REMOVE ROUGH CUT EDGE.
- BE SURE TO LEAVE CUT-OFF END AT THE END OF A RUN SINCE THIS SHOULD BE COVERED WITH END COVER OR FILLER PANEL.DO NOT LEAVE EXPOSED!!
- SECURE CUT-OFF VALANCE SAME WAY AS MAIN VALANCE USING SELF-DRILLING SCEWS PROVIDED.

MATERIAL		WEIGHT LBS		 CONCORD METAL MANUFACTURING INC. 60 Citation Dr, Concord, Ontario L4K 2W9 TEL: 905-738-2127 EMAIL: acad@concordmetal.com		PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF CONCORD METAL MANUF. INC.		
FINISH		-----						
DRAWN BY ZLR		DATE Jun 01, 2017						
APPROVED BY		DATE		ASSEMBLY/PART No. A001522		TOLERANCE: (N.O.S.) DECIMALS ANGULAR XXX ±.015 ±0.5° DIMENSIONS ARE IN INCHES		
CUSTOMER TJX CANADA		PROPOSAL / CUST PART NUMBER 17-10-00200		ASSEMBLY/PART DESCRIPTION ASSEMBLY INSTRUCTION				REV. 1
PROJECT 4.5 INCH FLAT LIGHT VALANCE						SIZE A	SCALE 1:22	SHT 9 OF 10

REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPROVED
1	UPDATED ASSEMBLY INSTRUCTIONS	MA	MAR/20/2019	T.C.



STEP 6:

- INSTALL "END COVERS" AT EITHER END OF THE RUN. THESE ARE REVERSIBLE (LEFT OR RIGHT). END COVERS WILL FIT OVER END OF VALANCE & BRACKET TO TIE BACK TO WALL.
- "FILLER PANEL" WILL FIT OVER THE VALANCE TO CARRY OVER DOORWAYS WHEN REQ'D. CAN ALSO BE USED TO EXTEND A RUN AND COVER CUT-OFF VALANCE ENDS.
- "END COVERS" & "FILLER PANELS" SHOULD BE SECURED WITH SELF DRILLING SCREWS (PROVIDED).

6	FILLER PANEL
5	CUT-OFF VALANCE
4	24" END COVER ASSEMBLY
3	METAL VALANCE
2	LED LAMP
1	24" RAISED EXT. BRACKET ASSEM
ITEM#	DESCRIPTION

MATERIAL	WEIGHT LBS
FINISH	-----
DRAWN BY ZLR	DATE Jun 01, 2017
APPROVED BY	DATE
CUSTOMER TJX CANADA	
PROPOSAL / CUST PART NUMBER 17-10-00200	
PROJECT 4.5 INCH FLAT LIGHT VALANCE	

CONCORD METAL MANUFACTURING INC. 60 Citation Dr, Concord, Ontario L4K 2W9 TEL: 905-738-2127 EMAIL: acad@concordmetal.com	PROPRIETARY	
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ASSEMBLY/PART No.	A001522	
ASSEMBLY/PART DESCRIPTION	ASSEMBLY INSTRUCTION	
TOLERANCE: (N.O.S.) DECIMALS ANGULAR XXX ±.015 ±0.5 DIMENSIONS ARE IN INCHES	REV. 1	
SIZE	SCALE	SHT 10 OF 10
A	1:26	

TJX CANADA VALANCE INSTALLATION GUIDE

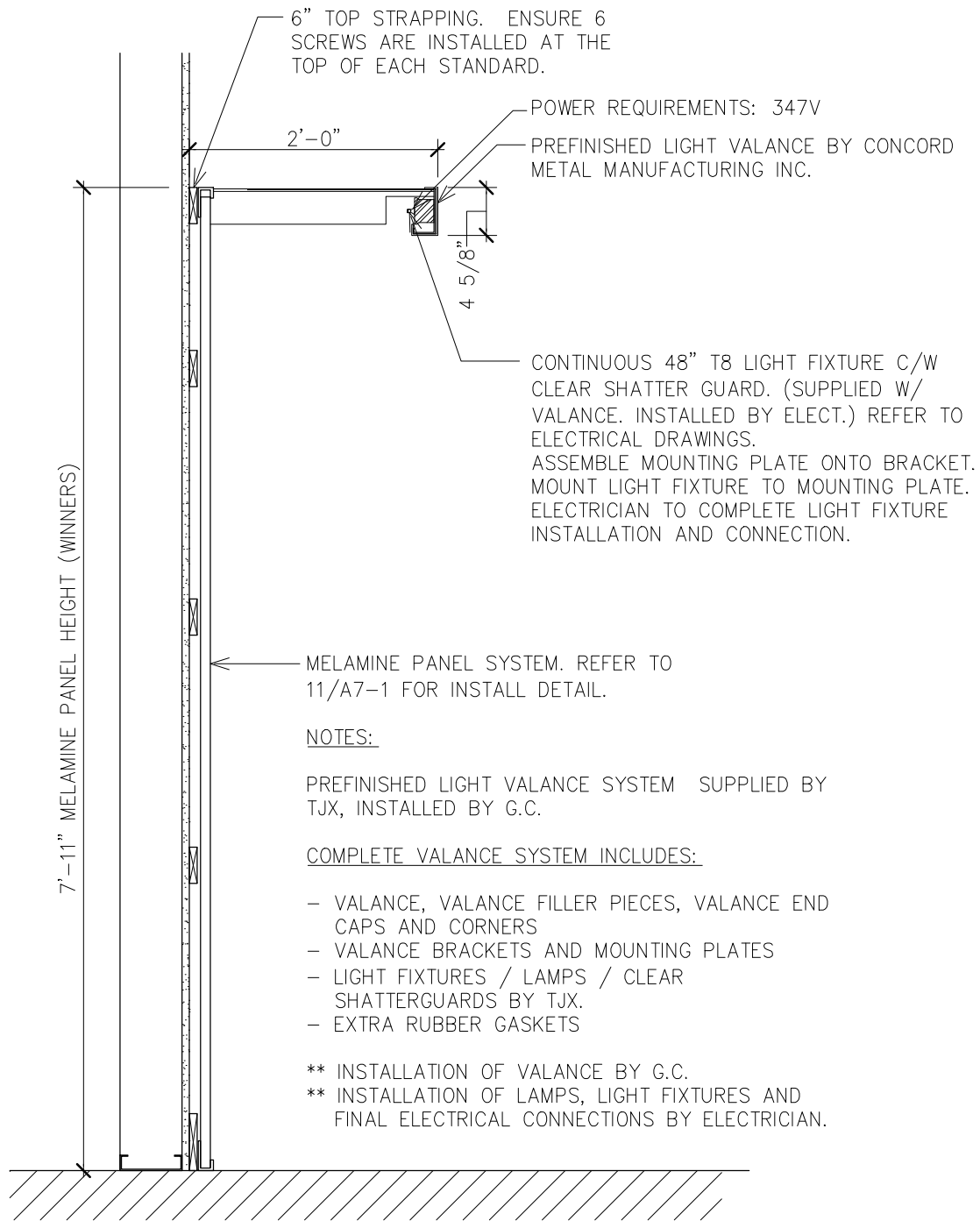
Updated on March 8th, 2019

Cover: Parts List & Numbers Per Banner
 Page #1: Parts Drawings
 Pages #2 - 5: General Assembly Overview Drawings
 Pages #6 - 10: Step-By-Step Installation Instructions c/w Drawings

STORE BANNER	WINNERS	HOMESENSE	MARSHALLS
PAINT FINISH:	"CHANTILLY LACE" - Matte (Reference Benn Moore)**	"FROST GREY" - Matte (Reference CIL Dulux)	"CHANTILLY LACE" - Matte (Reference Benn Moore)**
ITEM DESCRIPTION:	ITEM #	ITEM #	ITEM #
96" Metal Valance (Flat Front)	50518	500194	70794
24" End Cover (Reversible)	50519	500195	70795
24" Raised Extension Bracket (Slotting specific to Banner)	50520	500196	70796
48" Straight Filler	50521	500197	70797
4" Inside Corner Filler	50522	500198	70798
48" LED Lamp (LED18ET8/4/840-1) w/ Plastic Lense	50813	LIGHTING COMPONENTS ARE COMMON FOR ALL BANNERS	
48" Single Lamp Fixture (347 V)	50878	LIGHTING COMPONENTS ARE COMMON FOR ALL BANNERS	
36" LED Lamp (LED12ET8/3/840-1) w/ Plastic Lense	50944	LIGHTING COMPONENTS ARE COMMON FOR ALL BANNERS	
36" Single Lamp Fixture (347 V)	50961	LIGHTING COMPONENTS ARE COMMON FOR ALL BANNERS	

Components are to be ordered through TJX Canada Head Office

Paint Finish for Winners & Marshalls Revised from Dunne White to Chantilly Lace February 21st, 2018



1

LIGHT ILLUMINATED VALANCE DETAIL

SCALE: 3/4"=1'-0"



K. PAUL ARCHITECT INC.

TORONTO ■ VANCOUVER

2660 Sherwood Heights Dr. Suite 200, Oakville, Ontario, L6J 7Y8
www.kpaularchitect.com

(905)337-9800

fax (905)337-1986

LIGHT ILLUMINATED VALANCE DETAIL
(WINNERS)

SECTION

LIGHT ILLUMINATED
VALANCE DETAIL
(WINNERS)

DRAWN BY:

CHECKED

DATE

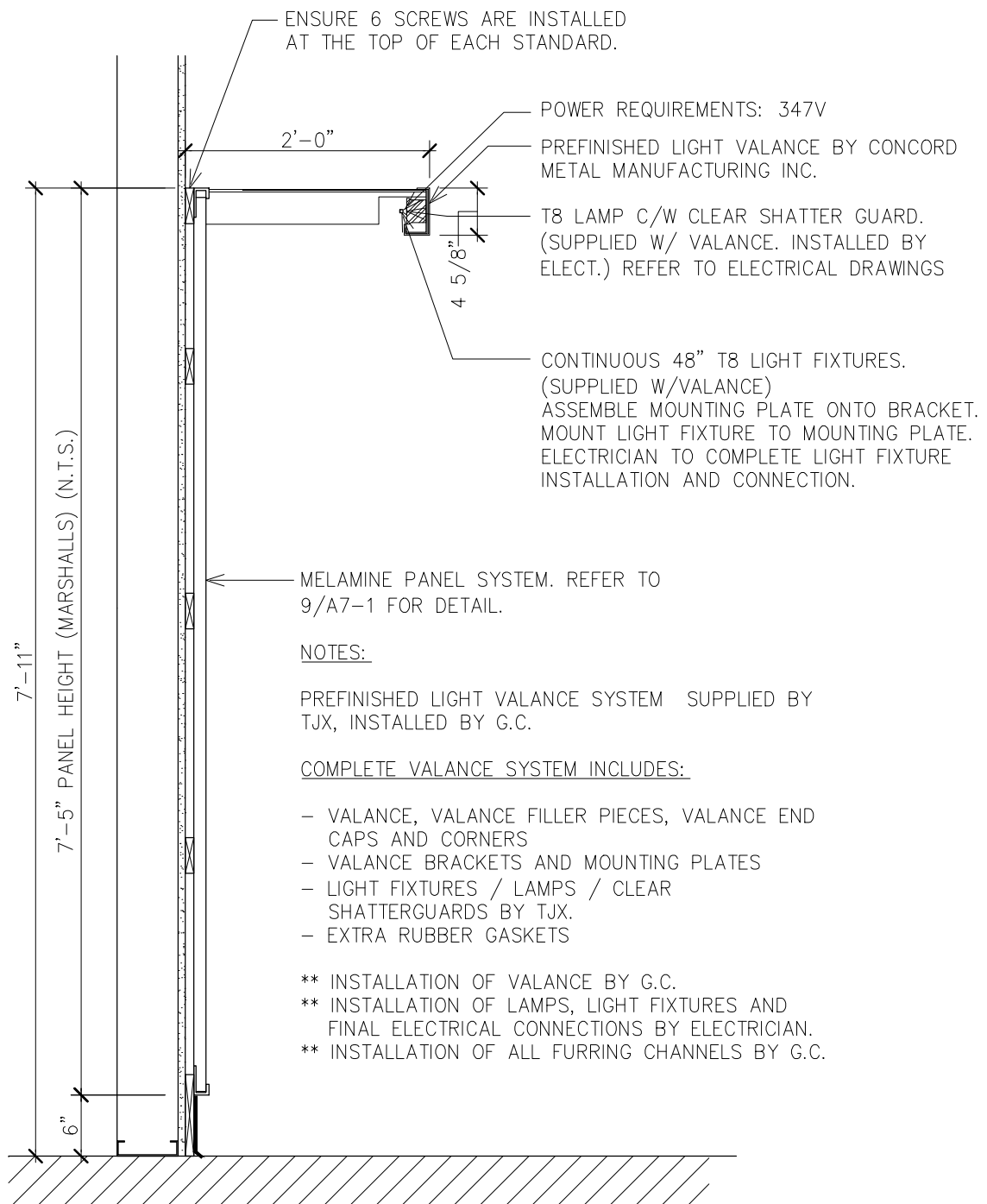
SCALE

AS NOTED

REF. DWG.

DETAIL NO.

REV. NO.



1

LIGHT ILLUMINATED VALANCE DETAIL

SCALE: 3/4"=1'-0"



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LIGHT ILLUMINATED VALANCE DETAIL
(MARSHALLS)

SECTION

LIGHT ILLUMINATED
VALANCE DETAIL
(MARSHALLS)

DRAWN BY:

CHECKED

DATE

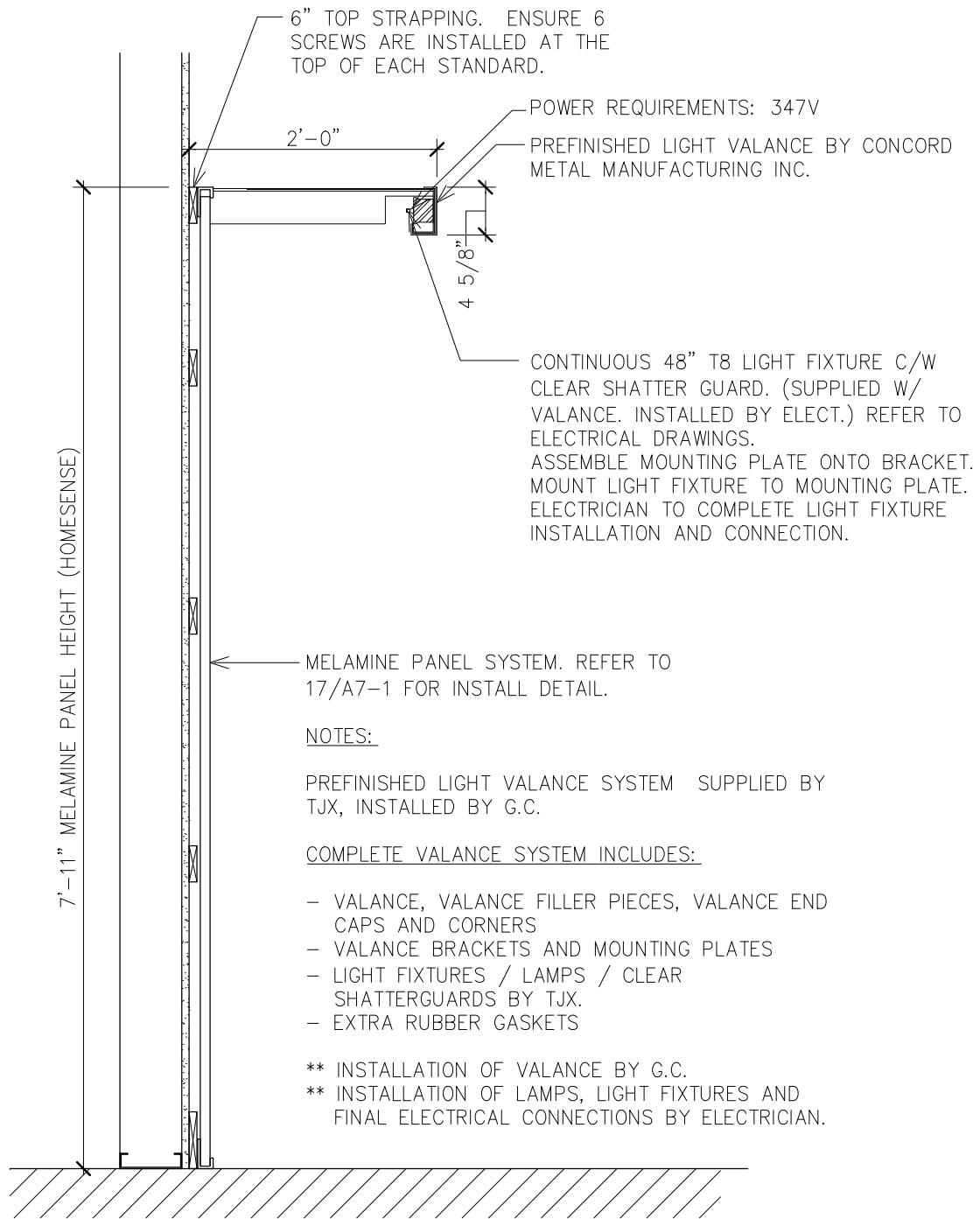
SCALE

AS NOTED

REF. DWG.

DETAIL NO.

REV. NO.



1

LIGHT ILLUMINATED VALANCE DETAIL

SCALE: 3/4"=1'-0"



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fax (905)337-1986

LIGHT ILLUMINATED VALANCE DETAIL
(HOMESENSE)

SECTION

LIGHT ILLUMINATED
VALANCE DETAIL
(HOMESENSE)

DRAWN BY:

CHECKED

DATE

SCALE

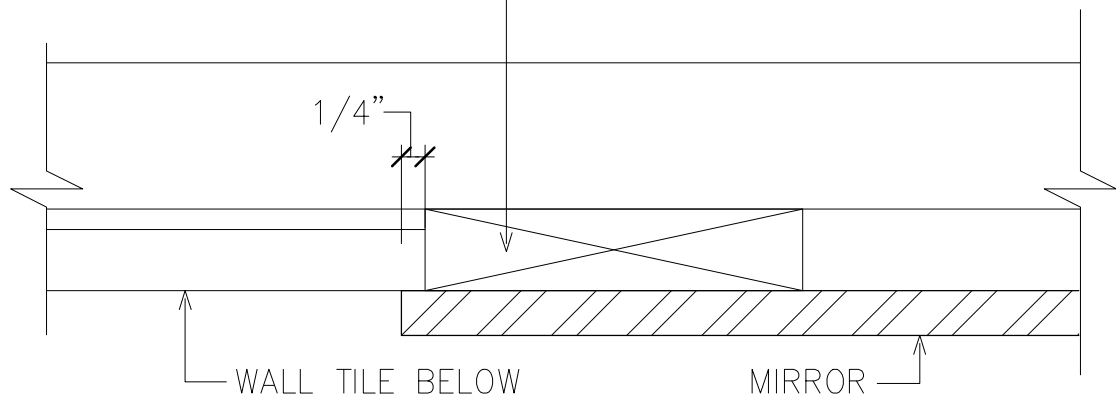
AS NOTED

REF. DWG.

DETAIL NO.

REV. NO.

4" WIDE MDF THICKNESS TO
MATCH TILE. PAINT TO MATCH
WALL



1

MIRROR DETAIL

SCALE: 6" = 1'-0"



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fax (905)337-1986

MIRROR DETAIL

SECTION

WASHROOM ACCESSORIES

DRAWN BY:

CHECKED

DATE

SCALE
AS NOTED

REF. DWG.

DETAIL NO.

REV. NO.

WASHROOM ACCESSORIES



TECHNICAL SPECIFICATION

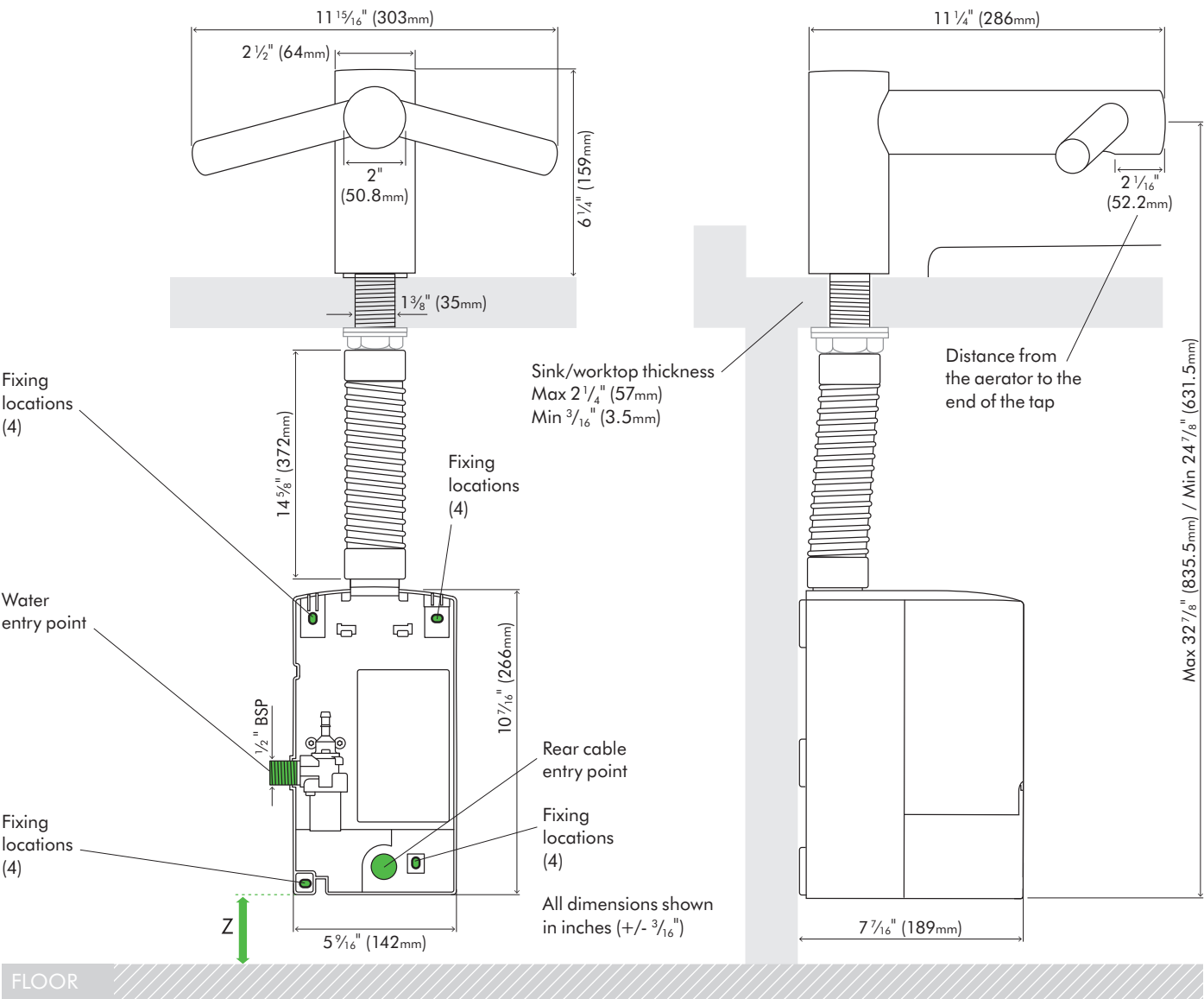
WD WD WD
04 05 06



Short

FRONT ELEVATION

SIDE ELEVATION



Tap dimensions	Minimum clearance
WD04: Height 6 1/4" (159mm), Width 11 15/16" (303mm), Depth 11 1/4" (286mm)	Z 4" (100mm) clearance from floor. ADA requires 9" (228mm) toe clearance.
Motor bucket dimensions	
WD04: Height 10 7/16" (266mm), Width 5 9/16" (142mm), Depth 7 7/16" (189mm)	

TECHNICAL SPECIFICATION

Electrical

Input voltage: Low Voltage = 100-110V, High Voltage = 200-240V

Frequency: Low Voltage = 50-60Hz, subject to voltage (120V at 60Hz; 100-110V at 50Hz), High Voltage = 50-60Hz

Motor specification: 1000W digital brushless motor

Motor Speed: 81,000 rpm

Motor Switching rate: 5,400 per second

Motor type: Dyson digital motor – V4 brushless DC Motor

Amp: Recommended dedicated 15 amp circuit, Low Voltage = 9.09 amps at 110V, High Voltage = 6.36 amps at 220V

Operating temperature range: 0°-40°C, 32°-104°F

Heater type: None

Standby power consumption: Less than 0.5W

Construction

Tap construction: Stainless steel (brushed)

Lead free

Under counter motor bucket: Molded ABS (main unit) also uses polycarbonate and polypropylene

Exterior screw type: Torx T15

Water ingress protection rating to IP35

Filter

Double-life HEPA filter (glass fiber and fleece prelayer)

Capture 99.97% of particles the size of bacteria as small as 0.3 microns from the washroom air.

Operation

Touch-free infra-red activation

Hand dry time measurement: 14 seconds*

Operation lock-out period: 30 seconds

Airspeed at apertures: 341 mph / 549 km/h (High Voltage), 331 mph / 533 km/h (Low Voltage)

Maximum altitude: 2,000 meters / 6,562 feet

Rated operating noise power: LV = 80 db(A) for WD04-06, HV = 80 db(A) for WD06, 81 db(A) for WD04-05

Operation airflow: Up to 5.5 gallons/sec (21 liters/sec)

Water operation

Water flow rate: 0.5 gallons/min (1.9 liters/min) low flow fitted aerator, 1.0 gallons/min (3.8 liters/min) with aerator supplied with product

Water temperature control: Thermostatic mixer recommended (not supplied)

Water pressure required: 14.5-116 psi

Tap power supply: Mains supply

Equipped with automatic flush – every 24 hours for 60 seconds, after last use.

Logistics

Net weight: WD04 = 9.39 lb; WD05 = 10.01 lb; WD06 = 20.97 lb

Packaged weight: WD04 = 14.90 lb; WD05 = 16.27 lb; WD06 = 30.09 lb

Packaged dimensions: WD04 = H 11 7/8" (303mm) × W 11 1/8" (284mm) × D 11 1/2" (291mm); WD05 = H 17" (434mm) × W 10 7/8" (275mm) × D 11 5/16" (288mm); WD06 = H 24" (610mm) × W 14 3/4" (375mm) × D 11 7/8" (302mm)

UPC Barcodes: Low Voltage/WD04: 885609014104, WD05: 885609014111, WD06: 885609014128; High Voltage/WD04: 885609014074, WD05: 885609014081, WD06: 885609014098

Sink specification

The Dyson Airblade Wash+Dry hand dryer is compatible with most sink types. Ensure plugs are not installed in the sinks and avoid inserts with embedded plugs (e.g. ones that swivel or elevate).

Using a specially designed test method, Dyson engineers evaluated the user experience of a wide range of sink types when used with the Dyson Airblade Wash+Dry hand dryer. For further details on our recommended sinks, please see the pre-installation guide on our website: dyson.com/docs

We recommend avoiding sinks with the following geometric characteristics:

Flat bases immediately surrounding the drain hole, nominally within a 2 5/16" (60mm) radius.

Sloping back and front wall transitions in relation to the base of the sink.

See our pre-installation guide for further details: dyson.com/docs

Sink dimensions:

All sink measurements are internal unless stated otherwise.

Minimum width of sink: 15" (380mm), Front to back – Minimum: 13" (330mm)

Minimum depth of sink: 5" (127mm)

Maximum depth of sink for WD05 only: 8" (200mm)

(External measurement of vessel sink)

Sink materials: Sinks with highly polished surfaces should be avoided, e.g. reflective chrome. Porcelain or brushed metal is ideal. When multiple taps are installed side-by-side, tap centers should be a minimum of 22 7/8" (580mm) apart.

Standard warranty

5 year parts, 5 year limited labor warranty.

Product range

WD04 Short

Part number/SKU

Low Voltage: 247659-01

High Voltage: 247908-01

WD05 Tall

Part number/SKU

Low Voltage: 247663-01

High Voltage: 247910-01

WD06 Wall

Part number/SKU

Low Voltage: 247669-01

High Voltage: 247915-01



Accreditations

Carbon Trust

HACCP International

Quiet Mark

WD04 Short & WD06 Wall are ADA compliant

dyson airblade wash+dry

**Further documents are
available online to download:**

Pre-installation guide

Installation guide

Dyson Airblade Wash+Dry
hand dryer brochure

Cleaning guide

CAD drawings

Installation videos



The Carbon label is a trademark of the Carbon Trust. HACCP International non-food certification mark is the registered trademark of HACCP International. HACCP International have certified Dyson products based on their recommended installation and operating conditions. Licensed by Dyson. Quiet Mark is a trademark of the Noise Abatement Society.

For further information, please contact Dyson:

1-888-397-6622 | airbladeinfo@dyson.com | www.dyson.com

6594732 08.01.18 ©2018 DYSON

How to use the Dyson Airblade Tap hand dryer:

1 Wash

Hold hands
under centre to
activate water.



2 Dry

Hold hands apart
to activate air.

Swipe hands
through air and
flip them to dry
both sides.



dyson airblade tap

The fastest, most hygienic hand dryer.

Comment utiliser le sèche-mains Dyson Airblade Tap :

1 Pour se laver les mains

Placez les mains au centre pour activer le jet d'eau.



2 Pour se sécher les mains

Écartez les mains pour activer le jet d'air.

Passez les mains dans le jet d'air et retournez-les pour sécher les deux côtés.



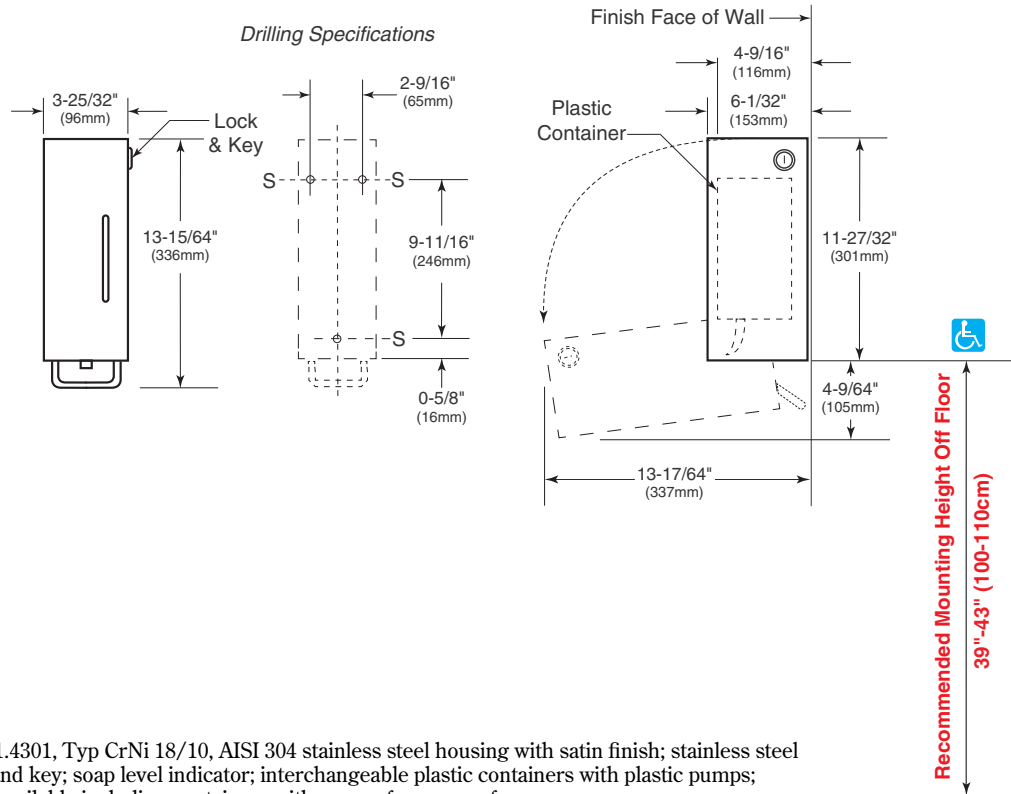
dyson airblade tap

Le sèche-mains le plus rapide et le plus hygiénique.



TrimLineSeries™ SURFACE-MOUNTED LIQUID SOAP DISPENSER 1000ML

B-26617



MATERIAL:

Welded, 0.8mm (22 gauge) 1.4301, Typ CrNi 18/10, AISI 304 stainless steel housing with satin finish; stainless steel operating lever; metal lock and key; soap level indicator; interchangeable plastic containers with plastic pumps; variety of plastic containers available including containers with pumps for soap or foam.

OPERATION:

The cover is lockable with a Bobrick System lock. To refill the dispenser, open the cover by lifting and pulling forward. The soap level indicator shows how much product is remaining in the dispenser. The plastic container can be removed and re-installed for quick and easy refilling of up to 1,000 ml of bulk liquid soap. Alternatively, soap can be poured directly into the plastic container. The dispenser has been designed for quick and easy refilling process.

INSTALLATION:

After opening the dispenser cover, remove the plastic container, gently lifting it upwards while pressing the locking latch. Mount the dispenser to the wall by using the enclosed screws and wall plugs. Make sure the wall surface is in good condition to ensure proper mating of the dispenser to the wall. Use silicone or glue pads if necessary.

Note:

1. The dispenser should be installed near or directly above the sink to allow wet hands to drip into the sink.
2. Allow sufficient space above dispenser to exchange cartridges easily.
3. Recommended installation height: 39" - 43" (100 - 110 cm) (measured from floor to the bottom of the dispenser).

TECHNICAL SPECIFICATIONS:

Model B-26617 from Bobrick Washroom Equipment, Dispenser made of 0.8 mm thick, (22 gauge) 1.4301, Type CrNi 18/10, AISI 304 stainless steel with a brushed, satin finish; plastic container for soap cartridges (up to 1000 ml), as well as for bulk refill of soap (up to 1000 ml); lockable with a Bobrick System lock; soap level indicator.

CARE INSTRUCTIONS:

Clean regularly with warm water and/or stainless steel cleaner.
Do not use acid (chloride) cleaners or scouring agents.
The suction valve can be cleansed by pumping hot water through it.
Do not dismantle the dispenser.
Use only original spare parts.

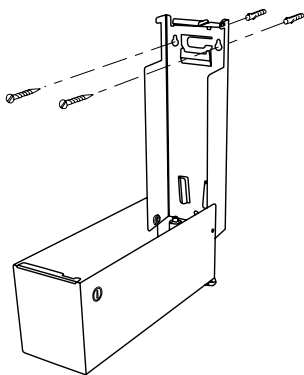
Liquid Soap Dispenser shall be Model B-26617 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

continued . . .

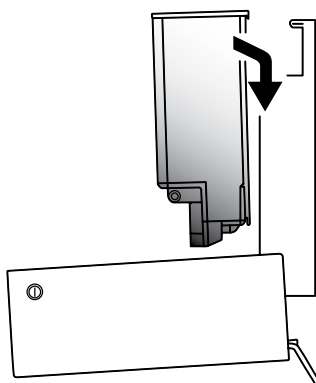
INSTALLATION INSTRUCTIONS

BOBRICK SURFACE-MOUNTED SOAP DISPENSER

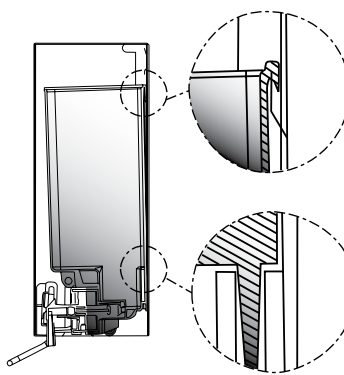
1. Install dispenser near or directly above sink to allow wet hands to drip into sink.
2. Allow sufficient space above dispenser to exchange cartridges easily.
3. Recommended installation height: 39" - 43" (100 - 110 cm) (measured from floor to bottom of dispenser).
4. For installation please follow instructions down below:



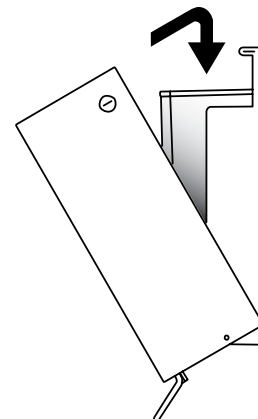
1. Mount dispenser to wall using enclosed screws and wall plugs.



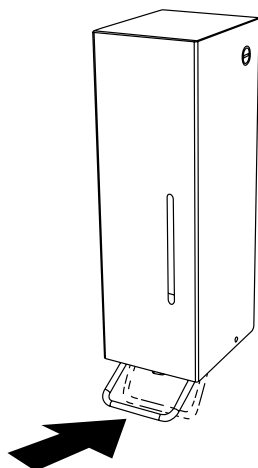
2. Insert plastic container into dispenser.



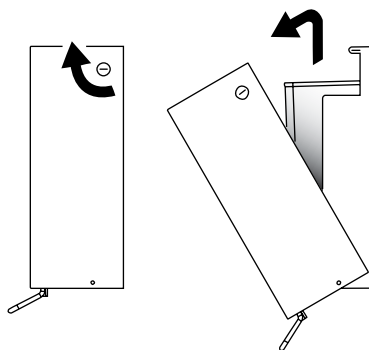
3. Ensure both top and bottom of container are correctly seated in dispenser.



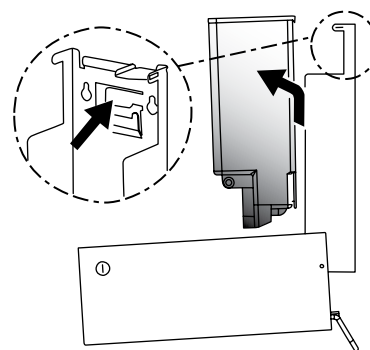
4. Replace dispenser cover.



5. Press lever several times to prime pump.

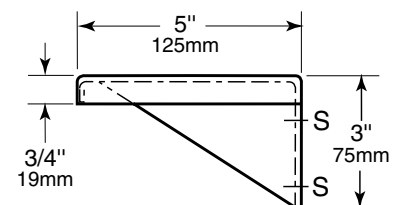
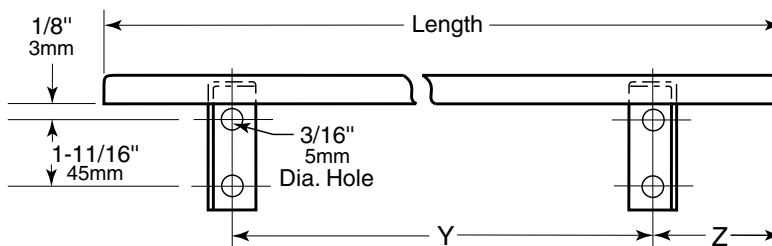
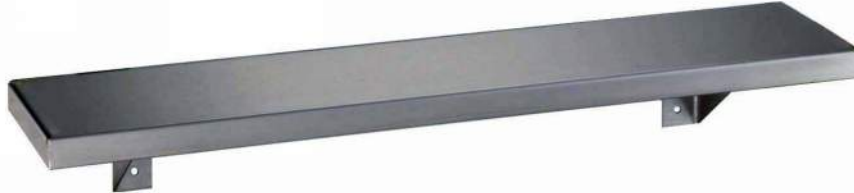


- A. To change cartridge: open dispenser.



- B. Press locking latch and lift cartridge up and out.



BOBRICK**Technical Data****STAINLESS STEEL
SHELF****B-295****STANDARD STOCK SIZES**

Model No.	Length	No. Of Brackets	Dimension Y	Dimension Z
B-295x16	16" (405mm)	2	12" (305mm)	2" (50mm)
B-295x18	18" (455mm)	2	12" (305mm)	3" (75mm)
B-295x24	24" (610mm)	2	18" (455mm)	3" (75mm)

Custom sizes available up to maximum length of 28 feet (853cm). Shelves longer than 8 feet (244cm) are furnished in multiple sections.

MATERIALS:

Shelf — 18-8, type-304, 18-gauge (1.2mm) stainless steel with satin finish. 3/4" (19mm) return edges for maximum rigidity. Front edge is hemmed for safe handling.

Mounting Brackets — 18-8, type-304, 16-gauge (1.6mm) stainless steel with satin finish. Welded to back return of shelf and secured inside front hem of shelf.

INSTALLATION:

Secure shelf to wall with sheet-metal screws (not furnished) at points indicated by an S. For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure shelf with sheet-metal screws. For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws, or provide 1/8" (3mm) toggle bolts or expansion bolts.

SPECIFICATION:

Shelf shall be type-304, 18-gauge (1.2mm) stainless steel with satin finish. Mounting brackets, welded to shelf, shall be 16-gauge (1.6mm) stainless steel. Shelf shall be _____ (insert length) long by 5" (125mm) wide with 3/4" (19mm) return edges. Front edge shall be hemmed for safe handling.

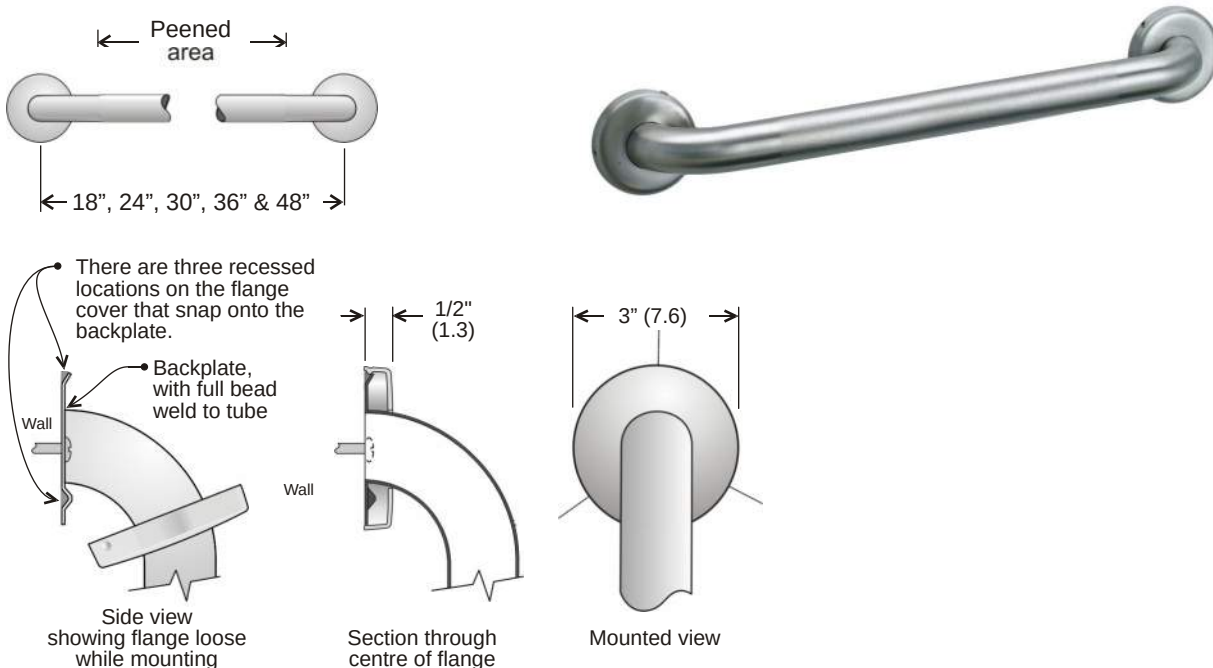
Stainless Steel Shelf shall be Model _____ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.



Hygienic Solutions at Work

Ready to Ship Stock Series Grab Bars, Stainless Steel

Code 1001NP 18":	1-1/2" dia. Stainless steel, peened finish
Code 1001NP 24":	1-1/2" dia. Stainless steel, peened finish
Code 1001NP 30":	1-1/2" dia. Stainless steel, peened finish
Code 1001NP 36":	1-1/2" dia. Stainless steel, peened finish
Code 1001NP 48":	1-1/2" dia. Stainless steel, peened finish



Concealed mounting screws, using snap flange, on "SP & NP" codes

Specifications:

The Frost NP series stock grab bars are of an all stainless steel construction.

The brushed and peened finish make this an attractive, cost effective product to specify for any Installation.

Stamped flange is 12 gauge stainless steel with a full 360 degree bead weld to the 18 gauge stainless steel tubing.

Features concealed mounting detailing as shown in the illustration above.

Barrier Free Access:

The Frost NP grab bar series comply with handicap codes requiring 1-1/2" bar diameter and wall clearance of 1-1/2".

Barrier free access specifications may vary depending on jurisdiction.

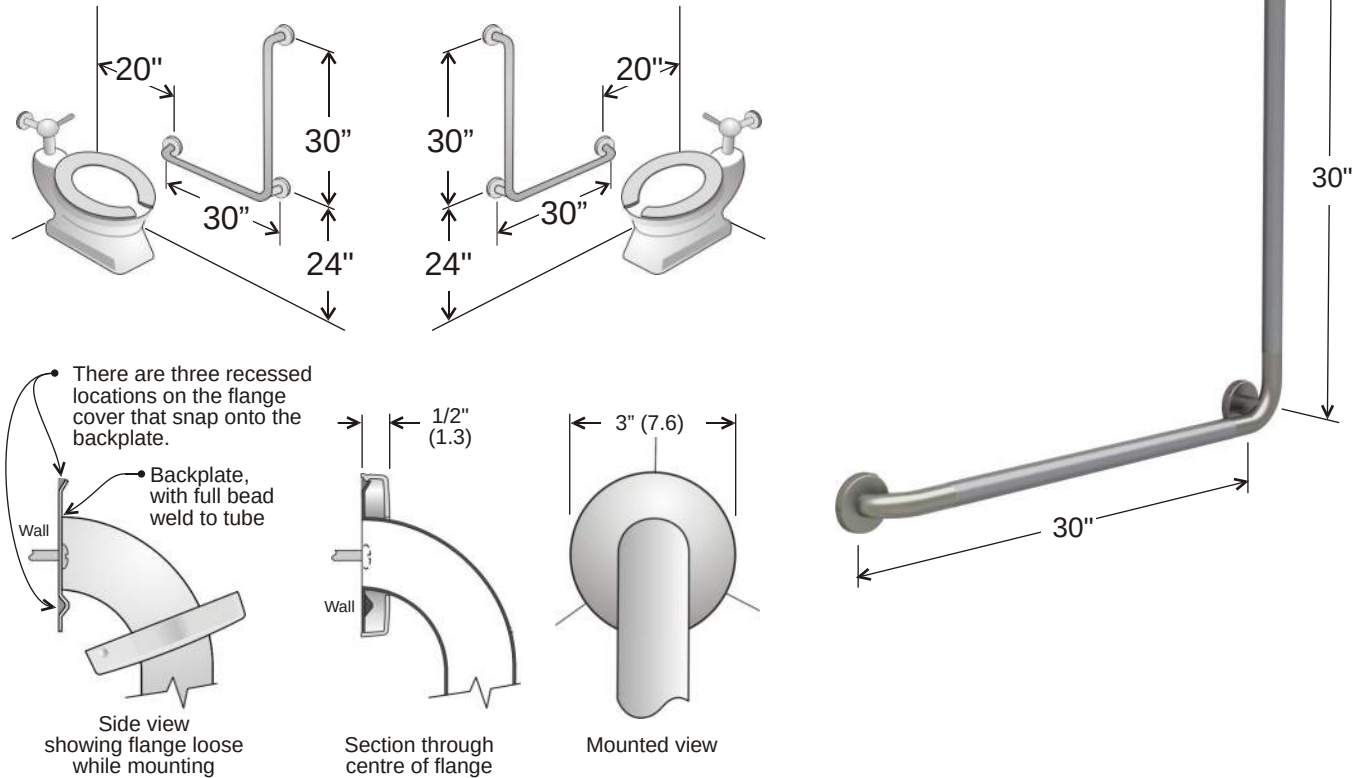
Safety Warning: All grab bars must be installed by qualified trades persons. Installers must consult and comply with local building codes. Mounting hardware and other systems to be determined by contractor and installer pending specific structure, design, and conditions. All installations must be fully inspected and approved by property owners and maintenance personnel prior to product being put into use. Failure to comply to proper installation procedure will void warranty and may result in malfunctioning or injury.



Hygienic Solutions at Work

Ready to Ship Stock Series Grab Bars, Stainless Steel

Code 1003NP 30x30": 1-1/2" dia. Stainless steel, peened finish



Concealed mounting screws, using snap flange, on "SP & NP" codes

Specifications:

The Frost NP series stock grab bars are of an all stainless steel construction.

The brushed and peened finish make this an attractive, cost effective product to specify for any Installation.

Stamped flange is 12 gauge stainless steel with a full 360 degree bead weld to the 18 gauge stainless steel tubing.

Features concealed mounting detailing as shown in the illustration above.

Barrier Free Access:

The Frost NP grab bar series comply with handicap codes requiring 1-1/2" bar diameter and wall clearance of 1-1/2".

Barrier free access specifications may vary depending on jurisdiction.

Safety Warning: All grab bars must be installed by qualified trades persons. Installers must consult and comply with local building codes. Mounting hardware and other systems to be determined by contractor and installer pending specific structure, design, and conditions. All installations must be fully inspected and approved by property owners and maintenance personnel prior to product being put into use. Failure to comply to proper installation procedure will void warranty and may result in malfunctioning or injury.

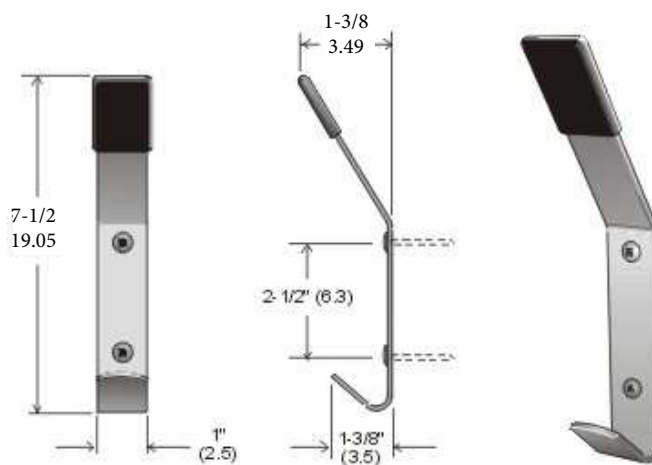


- Quality
- Value
- Service

**Tech
Reference**

Coat Hooks

Code 1146B: Surface mounted single hook with bumper, Stainless Steel



Specifications:

The code 1146B has a vinyl covered protective end to help prevent scratching when mounted to doors or in the path of door swings.

Materials: Hooks are fabricated from 12 gauge (.1") thick solid stainless steel. All stainless shall be type 304 with no. 4 brushed finish. Ends are radiused with all edges deburred.

Shipping Weight: 1/4 lb. (100 grams)

Installation: Single hook mounting hole centres 2.5" c-c (63.5 mm). Pan socket head SS mounting screws provided. For unrestricted access, top of coat hook to floor does not exceed 48" (120).

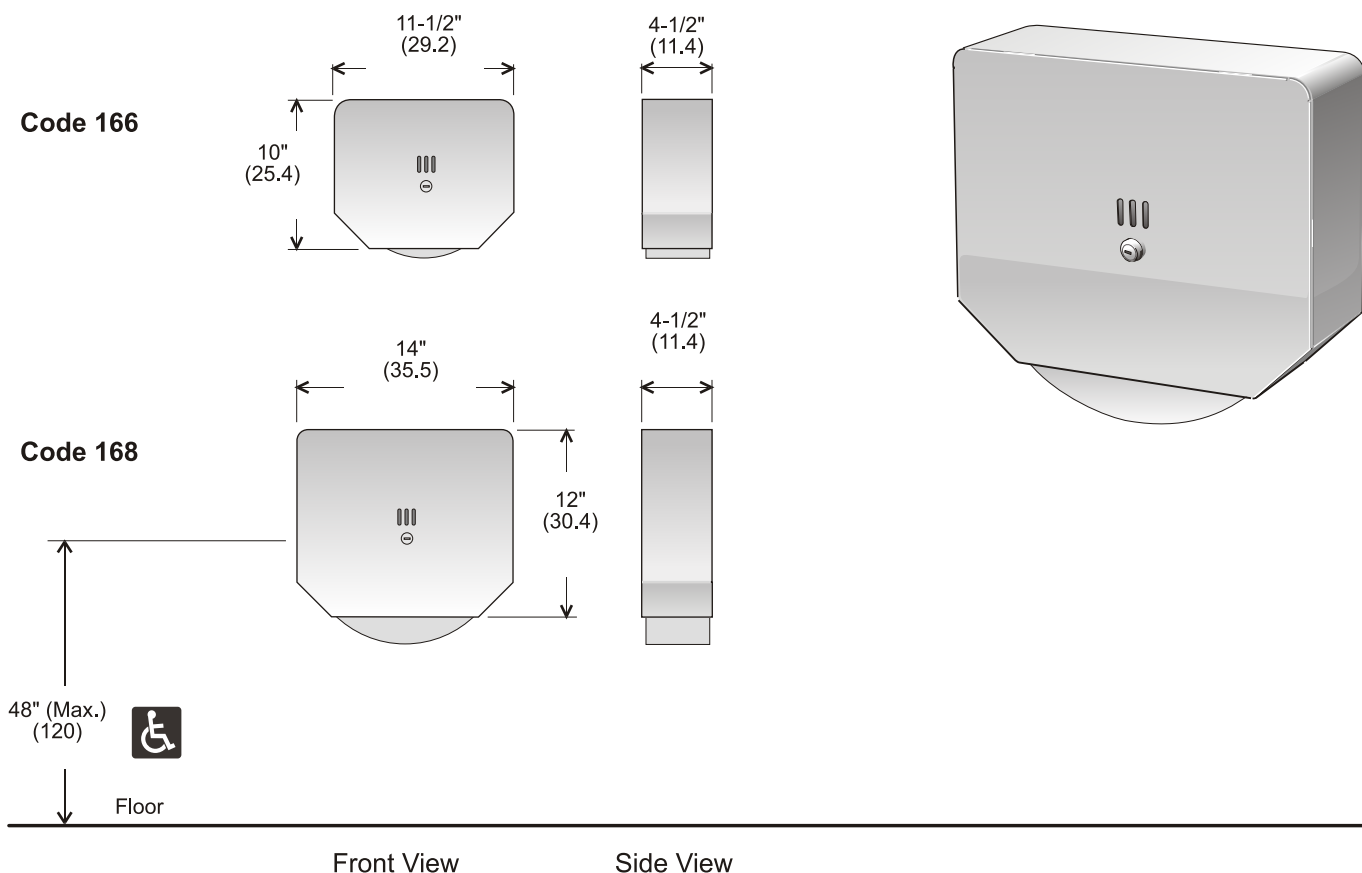
Description and specifications applicable on date issued. Frost reserves the right to make improvements or changes without notice.



Jumbo Toilet Tissue Dispenser

Code 166:	White epoxy finish, 10" roll maximum
Code 166S:	Stainless steel finish, 10" roll maximum
Code 168:	White epoxy finish, 13" roll maximum
Code 168S:	Stainless steel finish, 13" roll maximum

Overall dimensions in inches, (centimeters in brackets).



Specifications

- Site location:**
- Wall mounted single roll dispenser offers durability in an attractive all metal package. Code 166 for locations where space and access is limited. Code 168 recommended for minimal maintenance in high traffic areas.
- Features:**
- All steel construction offers maximum fire protection.
 - Cover 22 ga crs epoxy finish (22 ga. SS on 166S & 168S), galvanized steel back.
 - Keyed lock cover.
- Roll types:**
- Code 166: roll diameters up to 10" with 2-1/4 to 3" spindle diameters
 - Code 168: roll diameters up to 13" with 2-1/4 to 3" spindle diameters
- Installation:**
- Code 166 recommended mounting height: lower mounting holes 48" (120) max., above floor level. Mounting hole c-c dimensions 3-1/2" (8.9) high x 8" (20.3) wide. 3-1/2"
 - Code 168 recommended mounting height: lower mounting holes 48" (120) max., above floor level. Mounting hole c-c dimensions 4" (10.1) high x 9" (22.8) wide.



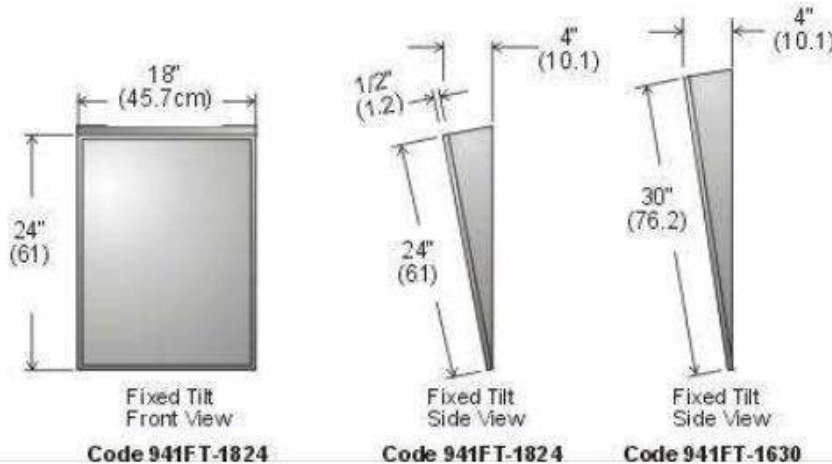
- Quality
- Value
- Service

**Tech
Reference**

Hygienic Solutions at Work

Stock Series Mirrors, Fixed Tilt

Code 941-1624FT: 16"w x 24"h, fixed tilt
Code 941-1630FT: 16"w x 30"h, fixed tilt
[Code 941-1824FT:](#) 18"w x 24"h, fixed tilt
Code 941-1830FT: 18"w x 30"h, fixed tilt
Code 941-1836FT: 18"w x 36"h, fixed tilt
Code 941-2424FT: 24"w x 24"h, fixed tilt
Code 941-2430FT: 24"w x 30"h, fixed tilt
Code 941-2436FT: 24"w x 36"h, fixed tilt



Specifications:

Site Location: The 941 fixed tilt mirror is ideal for any barrier free location.

Features: One piece 24 ga. stainless steel channel frame provides rigid assembly. Comes in bright annealed finish. Fixed tilt frame is one piece 20 ga. stainless steel. Vandal resistant concealed mounting. Mirror glass has shock resistant primary back. Full galvanized back panel.

Shipping Weight: Code 941-1824, 10 kg. (23 lbs.), shipped two per carton.

Installation: Position bottom of mirror 48" (121) from floor. Positions may vary depending on size and the type of installation.

Description and specifications applicable on date issued. Frost reserves the right to make improvements or changes without notice.



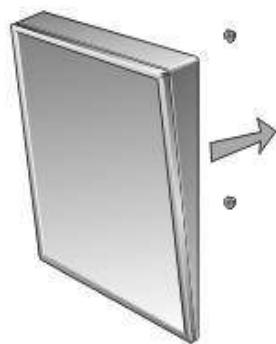
- Quality
- Value
- Service

**Tech
Reference**

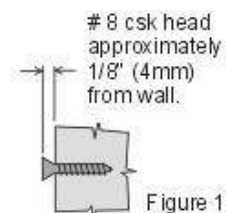
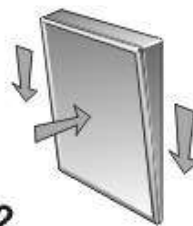
Fixed Tilt Mirror Installation Guide

Code 941-FT 18"x24" shown

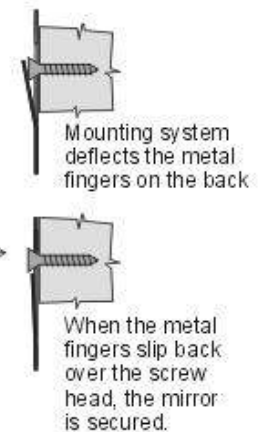
- 1** Insert four mounting screws into wall matching the holes centres on mirror frame. Insure they are at the correct depth as shown in fig. 1



- 2** Register mirror frame to mounting screws and press mirror firmly against the wall and pull down



Fixed Tilt Mirrors
Side View



Specifications:

Installation: Position bottom of mirror 48" (121) from floor.
Positions may vary depending on size and the type of installation.

Description and specifications applicable on date issued. Frost reserves the right to make improvements or changes without notice.



April 1st, 2015

Warranty and Order Fulfillment Policy

General Warranty:

If any product or part proves to be defective within 12 months from date of shipment from the factory it will be repaired or replaced without any charge including freight costs when authorized. Costs resulting from the installation or removal of defective products are not covered under this warranty. Discolouration to stainless steel parts resulting from exposure to harsh environmental and / or chemicals are not considered to be defects in workmanship or material and are not covered under warranty.

Mirror Warranty:

Frost Products Ltd is a leading manufacturer of mirrors for commercial and institutional installations. Frost offers vandal resistant channel frame, frameless, and Barrier free tilt designs. We offer standard float glass, tempered glass, laminated glass, and stainless steel face options. All Frost mirrors are covered under our standard complete product warranty. Mirror glass is conforming to GS12GD5A type 1B, guaranteed against silver spoilage for 10 years. Note; on tempered mirrors the tempering process may produce slight distortion in mirror reflection when viewed from a distance. Mirror back plate consists of shock resistant primary back combined with galvanized second back plate and vandal resistant mounting system. All stainless steel face mirrors use 20 ga. XL buff stainless steel reflective surfaces.

Hand Dryer Warranty:

Frost's hand dryers come with a complete 5 year warranty from date of purchase. Motor assembly and all working parts must be kept clean from excessive dirt/dust and any form of foreign debris. Failure to maintain a unit may reduce performance and result in void of warranty.

Frost Order Fulfillment Policy:

Frost requires 48 hours to process orders. We do our best to ensure all orders are shipped within 48 hours of receiving the order. We will try to accommodate rush orders, however we cannot guarantee products will be shipped prior to 48 hours from order receipt.



- Quality
- Value
- Service

**Tech
Reference**

Hygienic Solutions at Work

Stock Series Mirrors

Code 941-1624: 16"w x 24"h

Code 941-1630: 16"w x 30"h

[Code 941-1824](#): 18"w x 24"h

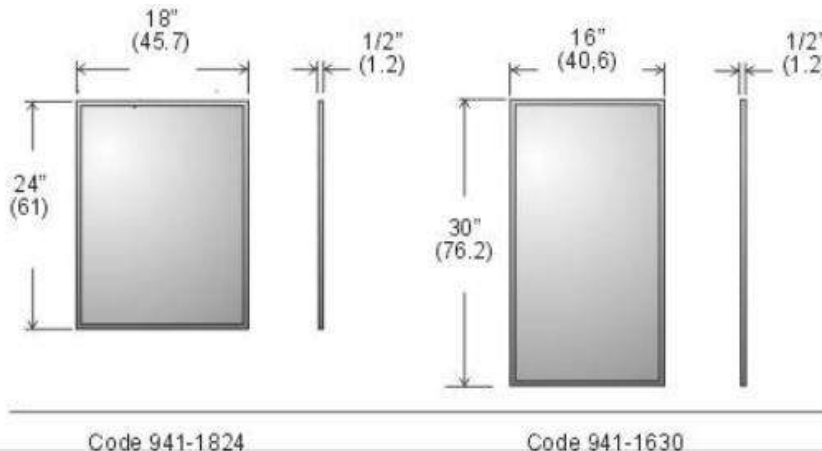
Code 941-1830: 18"w x 30"h

Code 941-1836: 18"w x 36"h

Code 941-2424: 24"w x 24"h

Code 941-2430: 24"w x 30"h

Code 941-2436: 24"w x 36"h



Specifications:

Site Location: The 941 stock series mirror is ideal for any location with its vandal resistant three way concealed fastener mounting.

Features: One piece 24 ga. stainless steel channel frame provides rigid assembly. Comes in bright annealed finish. Vandal resistant concealed three way mounting. **Frost mirrors have shock resistant primary back.** Full galvanized back panel.

Shipping Weight: Code 941-1824, 10 kg. (23 lbs.), **Shipped two per carton.**

Installation: Position bottom of mirror 48" (121) from floor.

Positions may vary depending on size and the type of installation.

Description and specifications applicable on date issued. Frost reserves the right to make improvements or changes without notice.

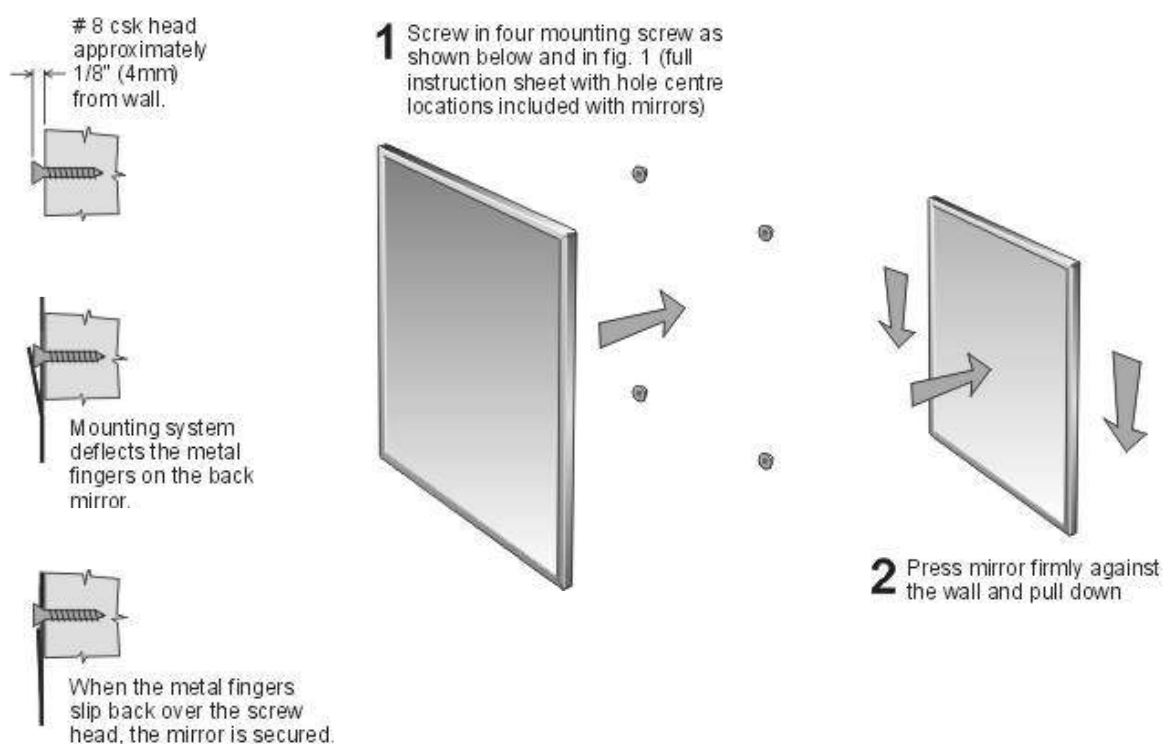


- Quality
- Value
- Service

**Tech
Reference**

Stock Series Mirror Installation Guide

Code 941-1824: 18" x 24" shown



Specifications:

Installation: Position bottom of mirror 48" (121) from floor.
Positions may vary depending on size and the type of installation.

Description and specifications applicable on date issued. Frost reserves the right to make improvements or changes without notice.



April 1st, 2015

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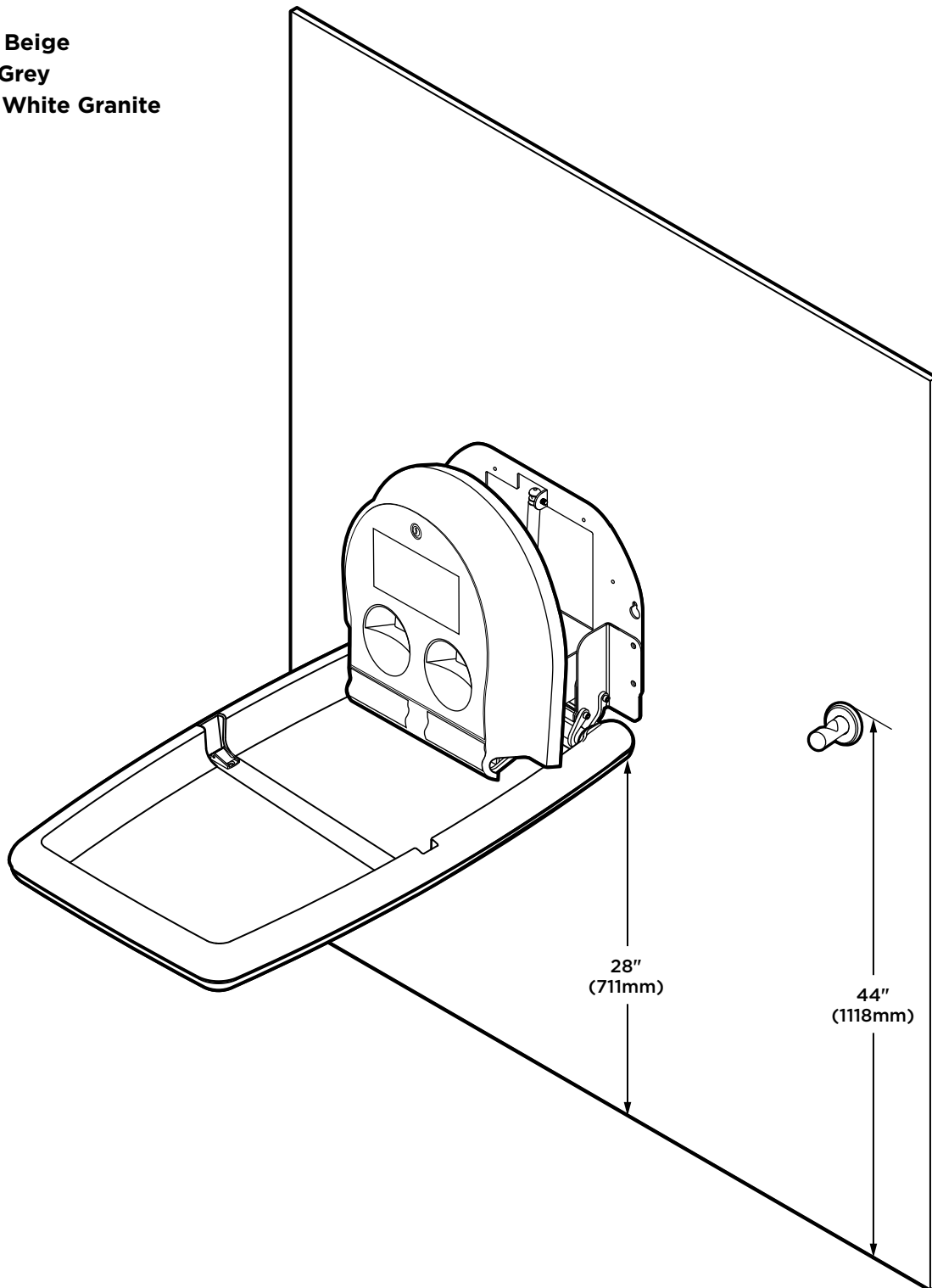


KB301 Baby Changing Station

Technical Data Sheet

Color

- KB301-00 Beige
- KB301-01 Grey
- KB301-05 White Granite

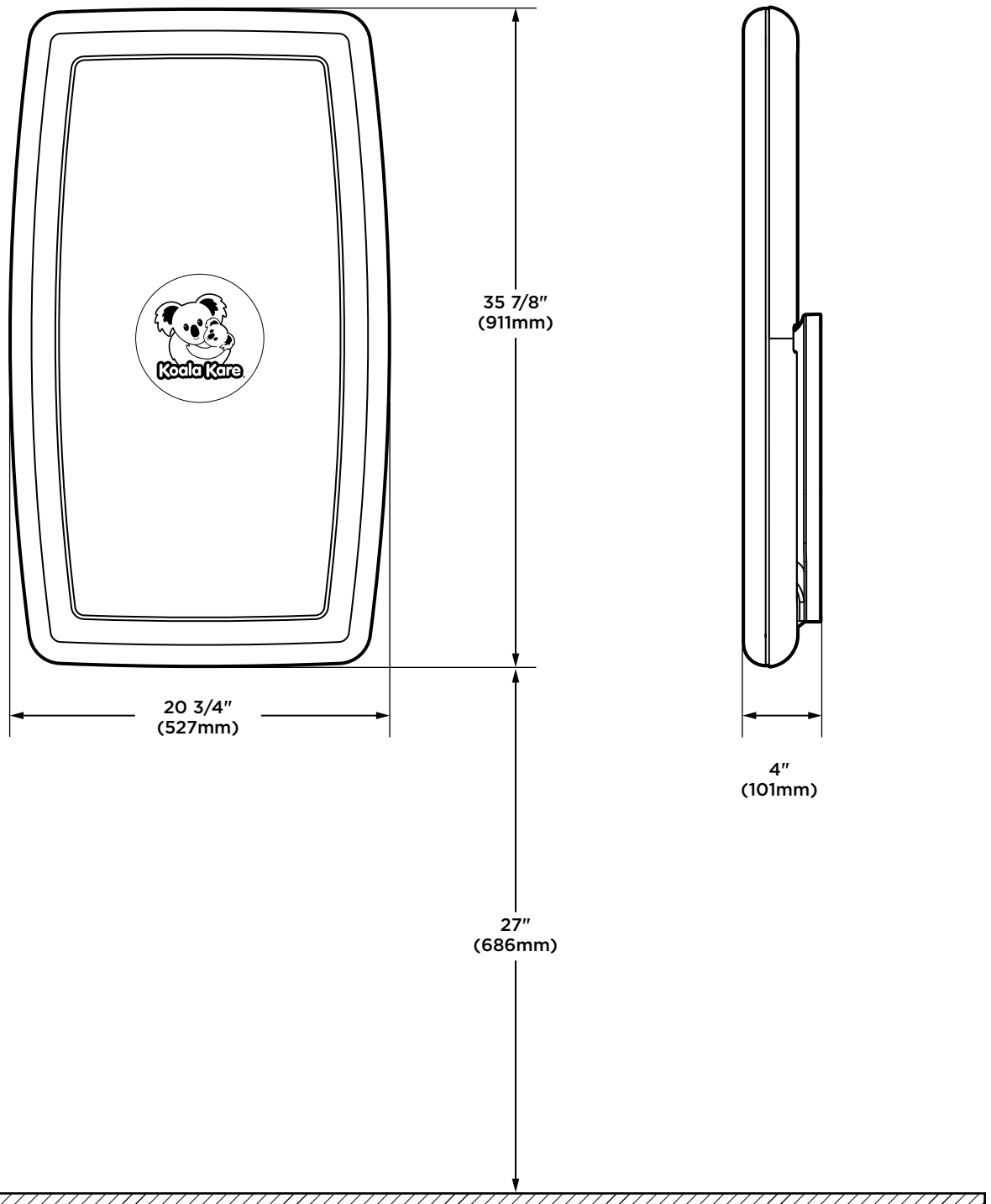


*Diagrams are not to scale.



KB301 Baby Changing Station

Closed Position

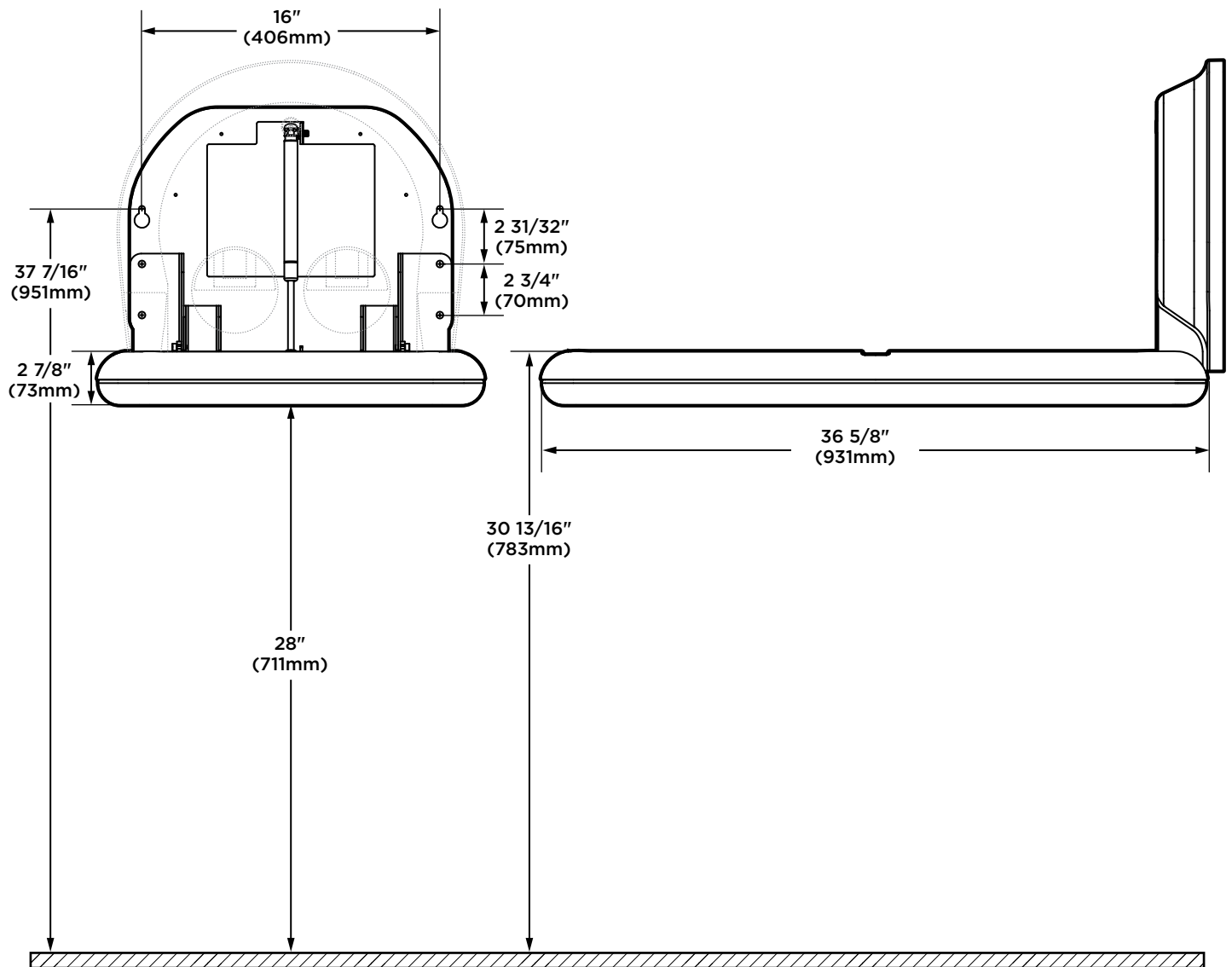


*Diagrams are not to scale.



KB301 Baby Changing Station

Open Position



*Diagrams are not to scale.



KB301 Baby Changing Station Information

Material

Injection-molded polypropylene with Microban® antimicrobial additive embedded into the bed surface. Reinforced steel-on-steel hinge mechanism and metal mounting chassis with mounting hardware included. Labeled usage instructions and safety messages in four languages. Optional Braille label available. Contoured changing surface area is 535 sq. in (3452 sq. cm) and comes complete with impervious TPU safety strap and solid stainless steel external bag hook. Dual cavity liner dispenser holds approximately 50 KB150-99 bed liners.

Operation

Concealed pneumatic cylinder and metal mounting chassis provides controlled, slow opening and closing of bed. Polypropylene is easy to clean and resists odors and bacterial growth. Complies with ASTM static load performance requirements when properly installed. Internal liner dispenser with integrated spring tab dispensed one liner at a time.

Warning: To ensure that the unit supports the intended loads, baby changing stations must be properly installed according to the manufacturer's instructions.

Specification

Baby changing station body shall be durable, injection-molded polypropylene. Design of unit shall be surface-mounted. Unit shall be equipped with a pneumatic cylinder for controlled opening and closing of bed. Bed shall be secured to metal mounting chassis with a concealed steel-on-steel hinge. No hinge structure shall be exposed on interior or exterior surfaces. Unit shall have mounting hardware included. Unit shall have Microban® antimicrobial embedded into plastic material on the changing surface. Unit shall comply with ADA regulations when properly installed. Bed shall have smooth concave changing area with a safety strap and external stainless steel hook for bags or purse provided.

The design and manufacture of Koala products is intended to be compliant with the 2010 ADA Standards for Accessible Design and the 2009 ICC A117.1, Accessible and Usable Buildings and Facilities. Unit shall conform to ASTM F2285-04(16) Standard Safety Performance Specification for Diaper Changing Tables for Commercial Use, ANSI Z535.4 Product Safety Signs and Labels, EN 12221:2008+A1: 2013. Unit shall have a built-in Liner Dispenser for use with 3-ply chemical free biodegradable bed liners, instructional graphics and safety messages in 4 languages. Unit shall be backed by manufacturer's 5-year limited warranty on materials and workmanship and include a provision for replacement caused by vandalism.

Unit shall be manufactured in the U.S.A.

ADA Requirements

Additional information on how this product complies with ADA requirements can be found in the *KB300 & KB301 Baby Changing Stations Accessibility Compliance* document on www.koalabear.com.

The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet. The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions without notice.

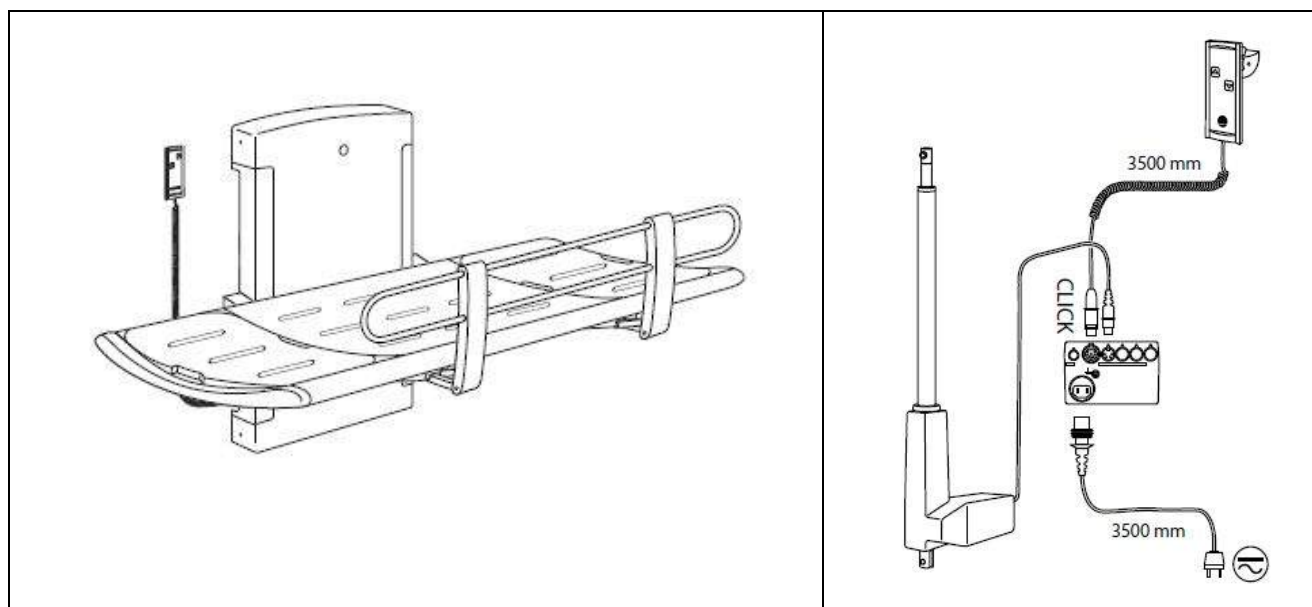
Koala Kare Products
A Division of Bobrick

6982 South Quentin Street, Centennial, CO 80112-3945
Main: 303.539.8300 | **Toll Free:** 888.733.3456 | **Fax:** 303.539.8399
Website: koalabear.com | **Email:** customerservice@koalabear.com

Pressalit Care 3000 Height Adjustable Changing Table (Models R8534/R8539)

Installation Drawing

Call us at 800 577-1555 for installation support or technical assistance.

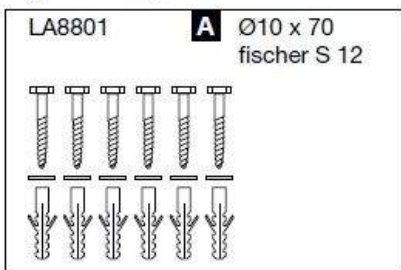


Methods of Installation

Brick walls
(solid brick or hollow brick)
>Mz12 or >Hz12

A ✓

✓ included with product



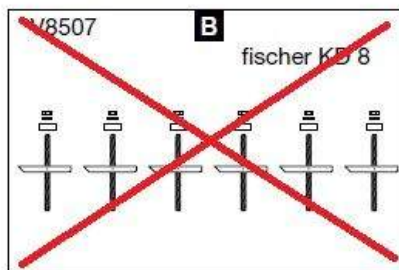
2"x1.5" studs,
22 mm plywood
or equivalent

A ✓

2x12.5 mm
plasterboard
or equivalent

B

Not applicable in the US

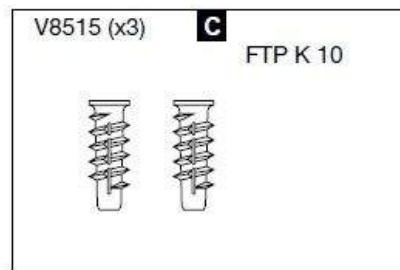


Aerated concrete walls
> G2

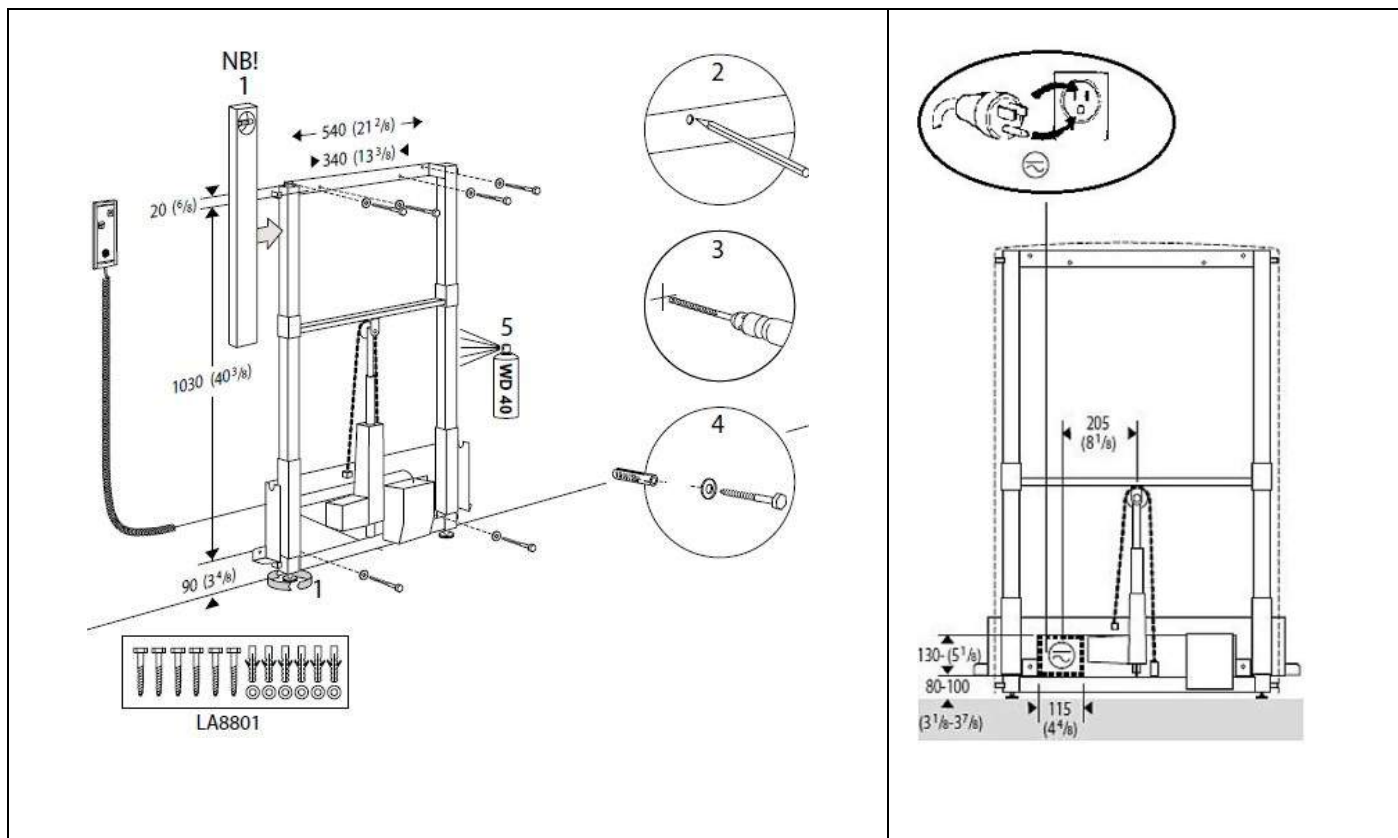
C

Concrete walls
> B15

A ✓



Installation location This product is designed for indoor use in a wet environment, such as a bathroom, shower, or washroom, therefore, insure that the power supply is adequately shielded. Additionally, choose an installation location with sufficient space for access to and function of the product.



Electrical Connections Insure that all power components are connected securely. Connect control box either by means of an approved moisture-resistant wall box or by leading an approved cable through the wall for connection outside the room. Use a standard single gang flush mount outlet box. See the drawing for proper location of the outlet box. The wall outlet power supply is 120v 15 amp. Use GFI as required. The GFI control can be located at the wall panel or outlet. The product includes a built-in 24v/1amp transformer, 8' power cord and 3-prong wall plug. Alternatively, product can be hard-wired directly into the electrical power supply by a qualified, licensed electrician. Secure all cords/cables to protect users from tripping.

WARNING: Follow all instructions to avoid serious injury or product damage. If any parts are damaged, contact MAX-Ability. Do not attempt to remove, modify, or repair damaged parts unless so instructed by MAX-Ability. Product should be installed by a qualified professional, e.g., a licensed contractor. MAX-Ability is not liable for injury or damage caused by improper mounting.

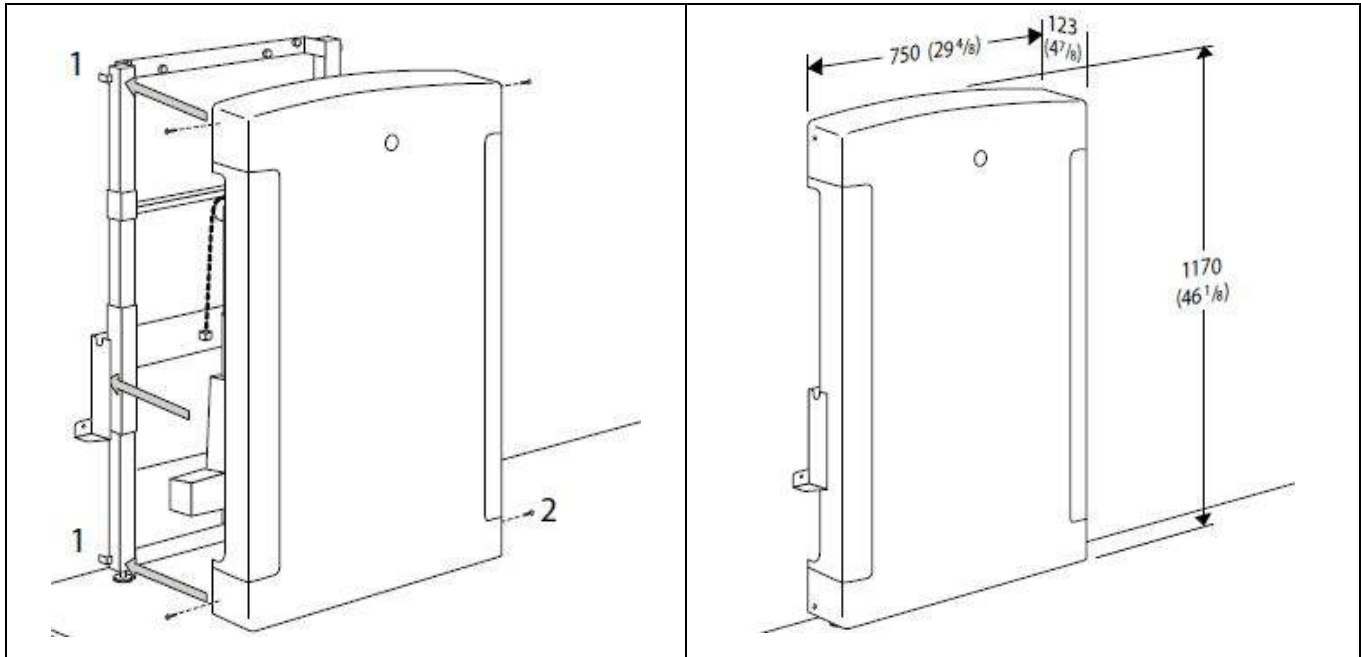
- Use indicated dimensions to mount changing table..
- Please protect wall panel components from dust during installation.

Troubleshooting Should you experience any difficulty, verify the correct current, and check the power and hand control plugs at the control box, making sure they are firmly connected. Check the operation manual for further troubleshooting tips. Please contact MAX-Ability for assistance.

Subject to change without further notice

www.max-ability.com 800-577-1555 Fax: 707-575-3856 email: Info@max-ability.com

rev. Feb 2017



Important!

Attention Product Owner / Installer:

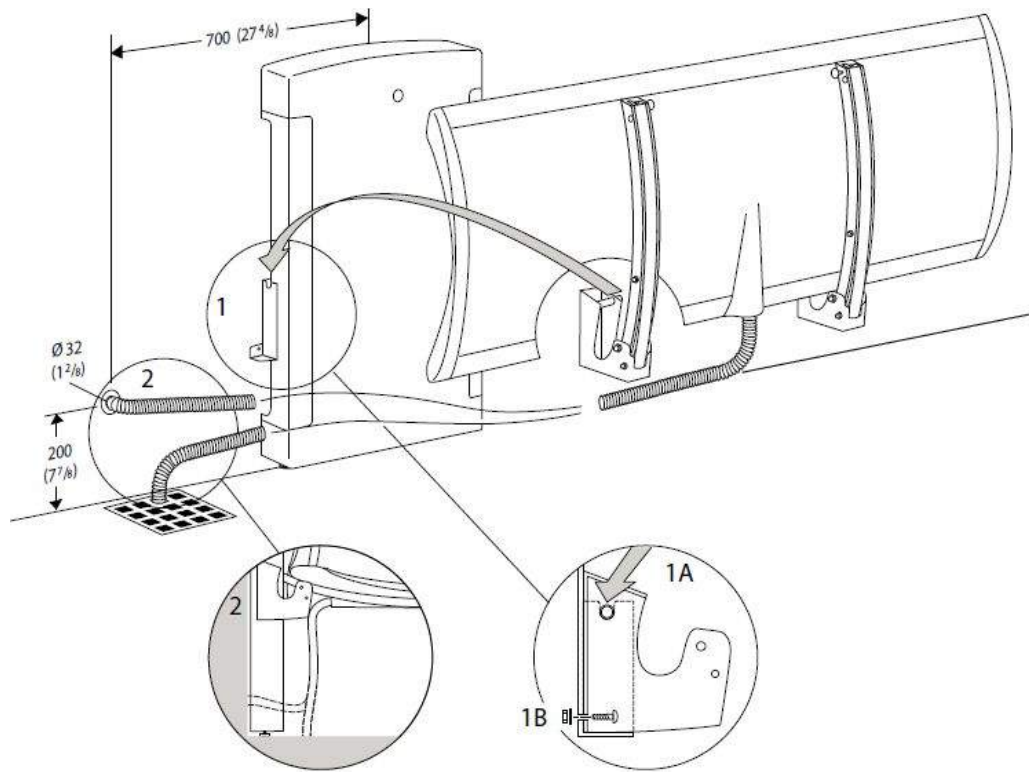
Before using your newly installed Pressalit Care changing table for the first time, carefully inspect and ensure that:

- All fasteners and anchors are tight.
- The hand control wall bracket is installed (usually on the right side of the wall panel).
- The safety rail and table folding mechanism operate correctly.

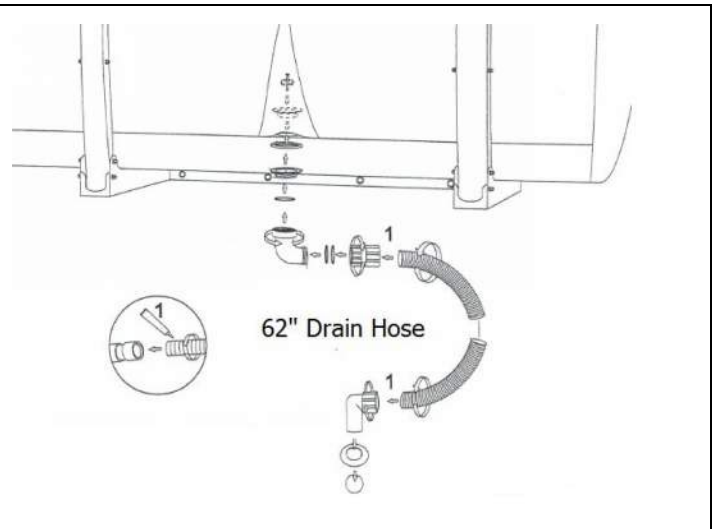
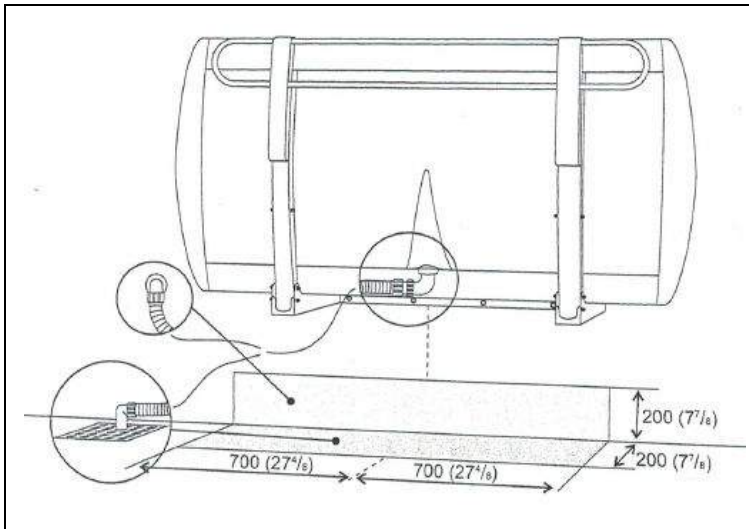
The flexible drain hose and connectors should not be installed if the table will only be used for changing.

For height adjustable models: move the product to its highest and lowest levels to confirm that there are no obstructions (e.g., the power cord) in the wall panel. Refer to the user manual for inspection intervals, operation and cleaning procedures.

Subject to change without further notice

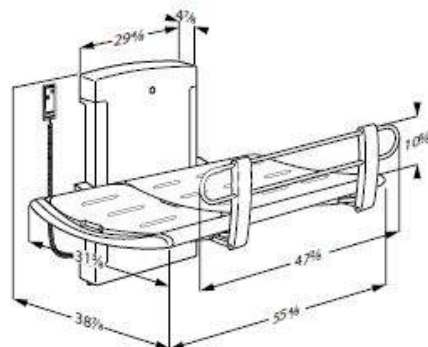
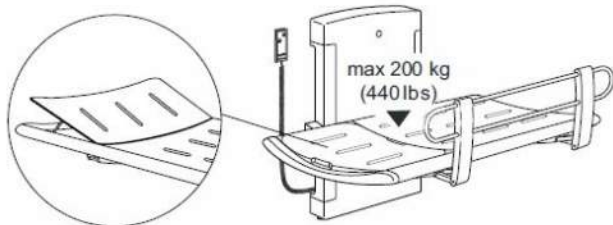


Flexible drain hose may be excluded from installation if table will not be used for showering/bathing.

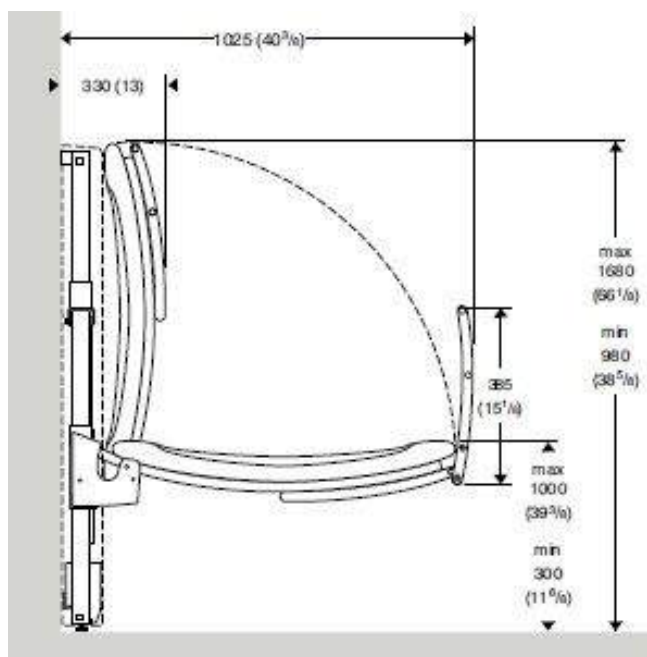
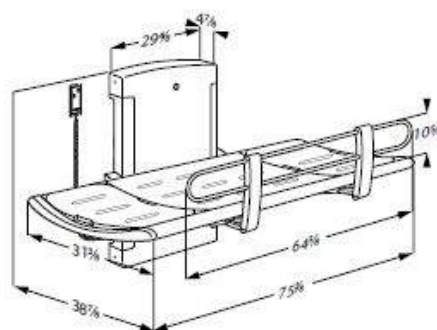
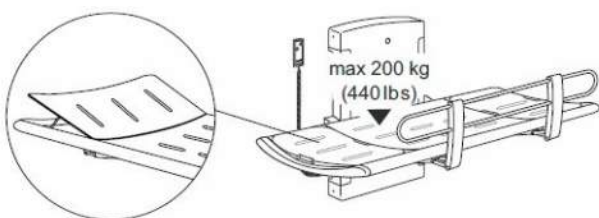




R8534



R8539



Subject to change without further notice

