A. GENERAL NOTES:

- 1. THE CONTRACTORS MUST VISIT THE SITE AND BECOME FAMILIARIZED WITH ALL CHARACTERISTICS AFFECTING NEW AND EXISTING CONSTRUCTION ON DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK, ANY CHANGES, ALTERATIONS, OR REVISIONS MUST BE REPORTED TO THE ENGINEER.
- 2. ALL MATERIAL AND WORK SHALL CONFORM TO THE ADOPTED CODE REQUIREMENTS OF THE APPLICABLE BUILDING DEPARTMENT.
- 3. NEITHER THE OWNER NOR CONTRACTOR WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE METHODS, PROCEDURES OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. IF A LAWSUIT IS FILED BY ONE OF THE CONTRACTOR'S OR SUBCONTRACTOR'S EMPLOYEES, OR ANY ONE ELSE, THE CONTRACTOR WILL INDEMNIFY, DEFEND AND HOLD THE OWNER AND POLAR RACKING HARMLESS OF ANY AND ALL SUCH CLAIMS.
- 4. NO PIPES, DUCTS, SLEEVES, CHASE ETC., SHALL BE PLACED CONCRETE PIERS, UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY SHOWN. OBTAIN PRIOR WRITTEN APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
- 5. CONTRACTOR TO CONFIRM WITH PV MODULE INSTALLATION MANUAL FOR CLAMPING ZONES TO ENSURE THEY ARE FASTENED PER MODULE REQUIREMENTS.

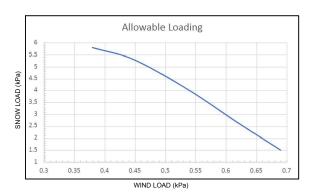
B: LOADING PARAMETERS:

DEAD LOAD

TOTAL WEIGHT :0.13 kPa

STEEL MEMBERS :ACTUAL WEIGHT OF MEMBERS

SNOW AND WIND LOAD COMBINATION FALLING BELOW THE LINE SHOWN IN THE GRAPH BELOW IS ACCEPTABLE



PILE DESIGN: REFER TO PILE DESIGN DOCUMENTS AND DRAWINGS FOR FOUNDATION REACTION LOADS

C: STRUCTURAL STEEL NOTES:

- . RACKING SYSTEM WAS DESIGNED TO SPECIFIED CLIMATIC LOADS AT GROUND LEVEL
- 2. WIND LOADS HAVE BEEN PRODUCED BASED ON POLAR RACKING PROPRIETARY WIND TUNNEL TESTS RESULTS BY CPP INC.
- 3. POSITIVE LOADS ARE DOWNWARD I.E COMPRESSIVE LOADS, NEGATIVE LOADS ARE UPLIFT I.E. TENSION LOADS
- 4. LOADS ARE SPECIFIED VALUES AND MUST BE COMBINED AS PER NBC PART 4
- 5. REACTION LOADS ASSUME NOMINAL INSTALLATION LOCATIONS
- 6. LATEST AISI & CSA STANDARD SHALL BE CONSIDERED TO FABRICATE OR DESIGN ANY STEEL COMPONENTS ON RACK
- 7. INSTALLATION MANUAL SHALL BE USED FOR TORQUE VALUE ON ALL STRUCTURAL CONNECTION POINTS
- 8. ALL WELDING OF STEEL SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF CSA W59-03" WELDED STEEL CONSTRUCTION (METAL ARC WELDING)" BY WELDERS CERTIFIED AS PER CSA W47.1
- 9. SELF-DRILLING SCREWS SHOULD BE INSTALLED WITH NON-IMPACTING VARIABLE SPEED DRILL WITH CLUTCH OUT
- 10. PV MODULE HARDWARE SHOULD BE TORQUED AND INSPECTED AS PER MODULE MANUFACTURER'S RECOMMENDATIONS
- 11. DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS OF THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL 8TH EDITION (2015).
- 12. STRUCTURAL STEEL GRADES:
- 13. SHAPES AND PLATES ASTM A572 OR ASTM A992, GRADE 50 (Fy=50 KSI)
- 14. WIDE FLANGE BEAMS & COLUMNS ASTM A572 OR ASTM A992, GRADE 50 (Fy=50 KSI)
- 15. HIGH STRENGTH BOLTS, NUTS, AND WASHER: SAE J429 GR.5; NUT: SAE J429 GR.5, (F436)
- 16. PRE -GALVANIZED MATERIAL SHALL COMPLY WITH ASTM A653 G90 MIN.
- 17. ALL CONNECTIONS NOT SHOWN SHALL CONFORM TO THE "CISC", 8TH EDITION.
- 18. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE FEDERAL AND PROVINCIAL CODES AND STANDARD SPECIFICATIONS.

D: LIGHT GAUGE METAL NOTES:

- 1. DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS OF THE CSA-136-16 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- 2. NORTH-SOUTH BEAMS, EAST-WEST BEAMS AND BRACES SHALL BE FORMED TO CHANNEL SHAPE, PUNCHED WEB AND KNURLED FACES, CONFORMING TO ASTM DESIGNATION: A 446, GRADE 50.
- NORTH-SOUTH BEAMS, EAST-WEST BEAMS AND BRACES MINIMUM GAUGE THICKNESS ARE SIZED AS SHOWN ON THE RACKING DRAWINGS.





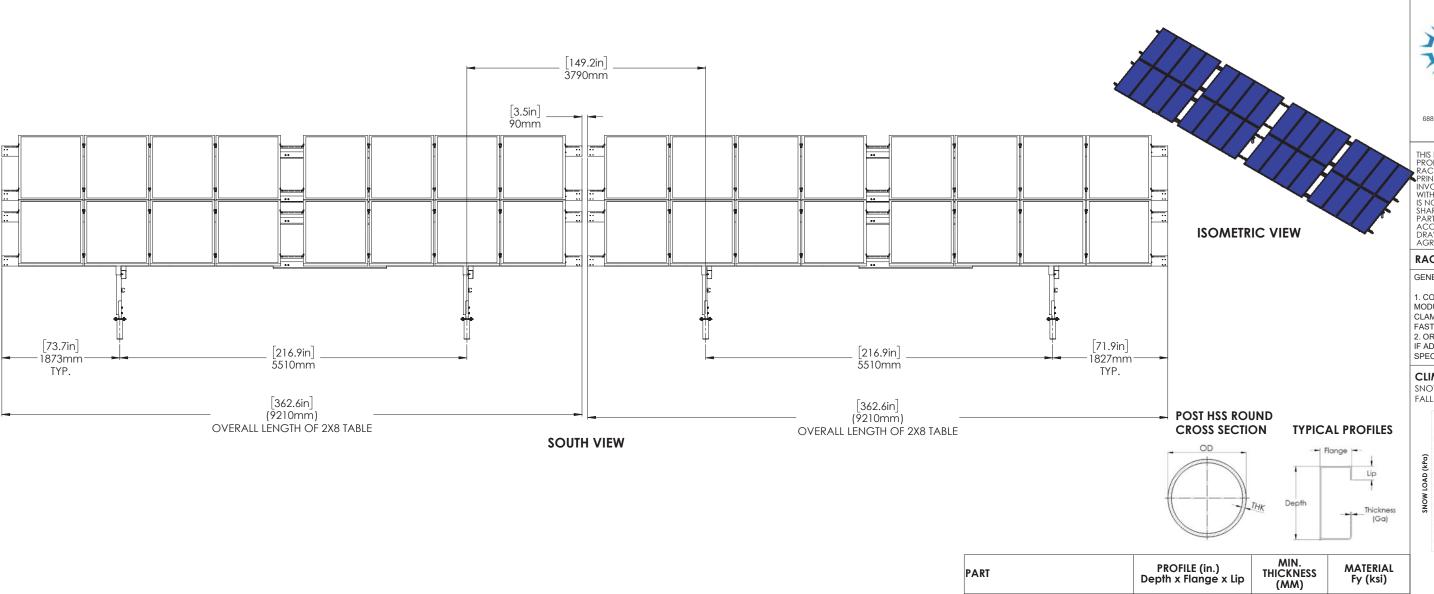
PROJECT NAME:			
REV NO.	ISSUANCE	DATE	
00	ISSUED FOR CONSTRUCTION	24AUG21	

2X8 PRU-D GROUND MOUN

RAWING NAME:

GENERAL NOTES

	PROJ. NO.:	DWG. BY: VT	CHKD. BY: MA	APPR. BY:
	DRAWING NUMBER:		L-	01



PART	PROFILE (in.) Depth x Flange x Lip	MIN. THICKNESS (MM)	MATERIAL Fy (ksi)
POST	3.5" OD	6.35	50
TABLE LEG (FRONT)	6 X 3 X 1	2.35 2.15	50 55
TABLE LEG (BACK)	6 X 3 X 1	2.65 2.50	50 60
EAST-WEST BEAM	6 X 3 X 1	2.50	50
NORTH-SOUTH BEAM	6 X 3 X 1	2.50	50
BRACE	2.5 X 2.0 X 0.5	2.35 2.15	50 55

MAIN COMPONENETS BILL OF MATERIAL FOR 2X8						
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.			
2	900286002	Foot Bracket, Assembly, PRU Dual Leg, 6" C-Channel Post, 6x150 mm bolt circle Ground Screw, Adjustable N-S	4			
3	300474002	Beam, EWE, C6x3x1, Ga12, 3998 mm, G90, P-2x8, Distr.	4			
4	300475002	Beam, EWW, C6x3x1, Ga12, 5202 mm, G90, P-2x8, Distr.	4			
5	300471002	Beam, NS, C6x3x1, Ga12, 3811 mm, G90, P-1P/2P, Distr.	2	L		
6	300346004	Table Leg, Front, C6x3x1, Ga13, 1285 mm, G90, 30° Tilt	2	F		
7	300345002	Beam, EW Splice, C6x3x1, Ga12, 1800 mm, G90, P-2x8, Distr.	4			
8	300341002	Table Leg, Back, C6x3x1, Ga12, 2235 mm, G90, 30° Tilt	2			
9	300324004	Brace, Lateral, C2.5x2x0.5, Ga13, 1850 mm, G90	4			
10	300313XXX*	POST, 3.5" O.D., 0.25" WALL, ASTM A252, 50KSI Y.S	4			
11	300232001	Bracket, East-West, Ga 10 , 6 in Beams	8			

^{*} Total embedment depth of the post varies, depending on overburden thickness.

HARDWARE BILL OF MATERIAL FOR 2X8

	HANDWAKE DIEL OF MATERIAL FOR 2X0					
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.			
14	100045010	Bolt, Carriage, 5/16"-18 x 2-1/2", Gr. 5, Magni 565	104			
15	100063004	Nut, Hex Flange, Serrated, 5/16"-18, Gr. 5, Magni 565	168	PRC		
16	100064005	Bolt, Hex Flange, Serrated, 5/16"-18 x 1", Gr. 5, Magni 565	64	P		
17	100014015	Cap Screw, Hex Head, 1/2"-13 x 1-1/2", Gr. 8, HDG	8	POI		
18	100011009	Washer, Flat, 3/8" x 1" O.D., HDG	56	IFUL		
19	100033017	Washer, Split Lock, 3/8", HDG	48	<u> </u>		
20	100015002	Nut, Hex Head, 1/2"-13, A194 Grade-2H, HDG	8	DRA		
22	400029001	Bonding Washer, WEEB-DSK516-45	20	1		



6889 Rexwood Road, Unit 5, Mississauga, ON L4V 1R2 TEL: (416) 860-6722 FAX: (519) 258-6664 www.polarracking.com

THIS DRAWING IS THE PROPERTY OF POLAR RACKING INCLUDING THE PRINCIPLES OF THE DESIGN INVOLVED. IT IS SUBMITTED WITH THE AGREEMENT THAT IT IS NOT TO BE REPRODUCED, SHARED OR DISTRIBUTED IN PART OR IN WHOLE. ACCEPTANCE OF THE DRAWING IS CONSTRUED AS AGREEMENT TO THE ABOVE.

SHEET 1 OF 4 REV.:

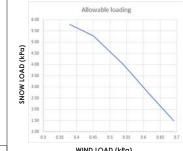
RACK TILT ANGLE (degrees): 30°

GENERAL NOTES:

1. CONTRACTOR TO CONFIRM WITH PV MODULE INSTALLATION MANUAL FOR CLAMPING ZONES TO ENSURE THEY ARE FASTENED PER MODULE REQUIREMENTS. 2. ORIGINAL WARRANTY WILL BE MAINTAINED IF ADJUSTMENTS MEET DRAWING SPECIFICATIONS

CLIMATIC DESIGN LOADS

SNOW AND WIND LOAD COMBINATION FALLING BELOW THE LINE IS ACCEPTABLE



WIND LOAD (kPa)





PROJECT NAME:

2X8 CONNECTION WITH 2X8 PRU-D DUAL C-CHANNEL LEG GROUND MOUNT

TITLE:

PRU-D TABLE FRAME ASSEMBLY,, PORTRAIT, DUAL C-CHANNEL LEG, 30°, MOD. (1950-2300)X(990-1112)X(26-50) mm

ROJ. NO.:	DWG. BY:	CHECKED. BY:	SCALE:			
PRU-D	PY	MA	NTS			
DLAR INTERNAL ASSEMBLY NUMBER:						

900510004

AWING NUMBER: S-03-1

EAST VIEW

64.6in

1640mm

TITET ABOVE

GROUND

29.7in

753mm

GROUND LEVEL

132.9in 3377mm

[39.4 ±3.9]

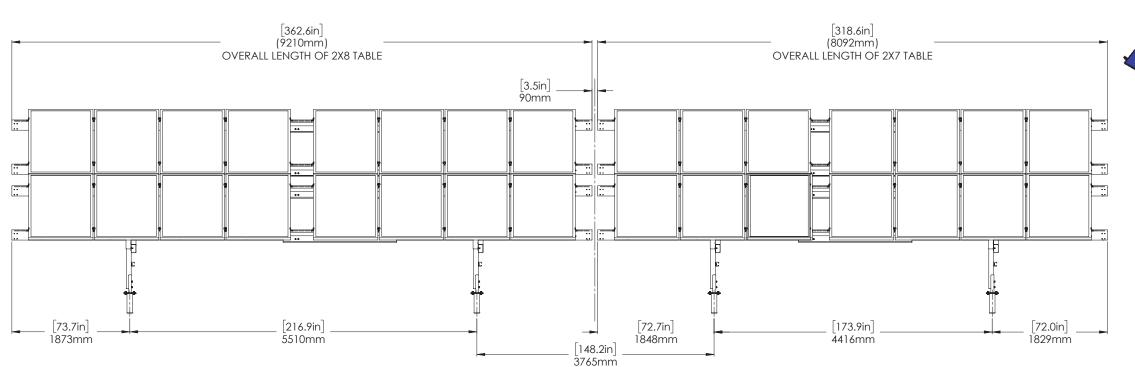
1000 ±100

LEADING EDGE

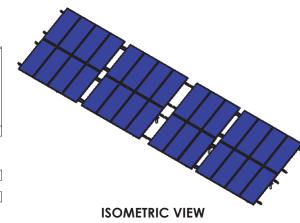
CLEARANCE

30.0° ±0.5°

TYP.

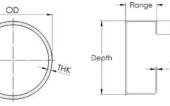


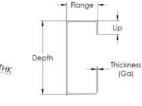
SOUTH VIEW



POST HSS ROUND CROSS SECTION

TYPICAL PROFILES





[39.4 ±3.9] 1000 ±100 30.0° ±0.5° LEADING EDGE TYP. CLEARANCE ÎFT ABOVE GROUND LEVEL GROUND 29.7in 64.6in 1640mm 753mm [132.9in] 3377mm

EAST VIEW

PART	PROFILE (in.) Depth x Flange x Lip	MIN. THICKNESS (MM)	MATERIAL Fy (ksi)
POST	3.5" OD	6.35	50
TABLE LEG (FRONT)	6 X 3 X 1	2.35	50
IABLE LEG (FRONT)	0 / 3 / 1	2.15	55
TABLE LEG (BACK)	6 X 3 X 1	2.65	50
. ,	0 / 3 / 1	2.50	60
EAST-WEST BEAM	6 X 3 X 1	2.50	50
NORTH-SOUTH BEAM	6 X 3 X 1	2.50	50
BRACE	2.5 X 2.0 X 0.5	2.35	50
DRACE	2.3 \ 2.0 \ 0.3	2.15	55

MAIN COMPONENETS BILL OF MATERIAL FOR 2X8

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
2	900286002	Foot Bracket, Assembly, PRU Dual Leg, 6" C-Channel Post, 6x150 mm bolt circle Ground Screw, Adjustable N-S	4
3	300474002	Beam, EWE, C6x3x1, Ga12, 3998 mm, G90, P-2x8, Distr.	4
4	300475002	Beam, EWW, C6x3x1, Ga12, 5202 mm, G90, P-2x8, Distr.	4
5	300471002	Beam, NS, C6x3x1, Ga12, 3811 mm, G90, P-1P/2P, Distr.	2
6	300346004	Table Leg, Front, C6x3x1, Ga13, 1285 mm, G90, 30° Tilt	2
7	300345002	Beam, EW Splice, C6x3x1, Ga12, 1800 mm, G90, P-2x8, Distr.	4
8	300341002	Table Leg, Back, C6x3x1, Ga12, 2235 mm, G90, 30° Tilt	2
9	300324004	Brace, Lateral, C2.5x2x0.5, Ga13, 1850 mm, G90	4
10	300313XXX*	POST, 3.5" O.D., 0.25" WALL, ASTM A252, 50KSI Y.S	4
11	300232001	Bracket Fast-West Ga 10 6 in Beams	8

HARDWARE BILL OF MATERIAL FOR 2X8

TEM NO.	PART NUMBER	DESCRIPTION	QTY.			
14	100045010	Bolt, Carriage, 5/16"-18 x 2-1/2", Gr. 5, Magni 565	104			
15	100063004	Nut, Hex Flange, Serrated, 5/16"-18, Gr. 5, Magni 565	168			
16	100064005	Bolt, Hex Flange, Serrated, 5/16"-18 x 1", Gr. 5, Magni 565	64			
17	100014015	Cap Screw, Hex Head, 1/2"-13 x 1-1/2", Gr. 8, HDG	8			
18	100011009	Washer, Flat, 3/8" x 1" O.D., HDG	56			
19	100033017	Washer, Split Lock, 3/8", HDG	48			
20	100015002	Nut, Hex Head, 1/2"-13, A194 Grade-2H, HDG	8			
22	400029001	Bonding Washer, WFFB-DSK516-45	20			

MAIN COMPONENETS BILL OF MATERIAL FOR 2X7

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
2	900286001	Foot Bracket, Assembly, PRU Dual Leg, 6" C-Channel Post, 6x150 mm bolt circle Ground Screw, Adjustable N-S	4
3	300475002-MOD For 2X7	Beam, EWE, C6x3x1, Ga14, 2x18, 4084mm, 1994x1000x35mm PV	4
4	300474002	Beam, EWE, C6x3x1, Ga12, 3998 mm, G90, P-2x8, Distr.	4
5	300471002	Beam, NS, C6x3x1, Ga12, 3811 mm, G90, P-1P/2P, Distr.	2
6	300346004	Table Leg, Front, C6x3x1, Ga13, 1285 mm, G90, 30° Tilt	2
7	300345002	Beam, EW Splice, C6x3x1, Ga12, 1800 mm, G90, P-2x8, Distr.	4
8	300341002	Table Leg, Back, C6x3x1, Ga12, 2235 mm, G90, 30° Tilt	2
9	300324004	Brace, Lateral, C2.5x2x0.5, Ga13, 1850 mm, G90	4
10	300313XXX*	POST, 3.5" O.D., 0.25" WALL, ASTM A252, 50KSI Y.S	4
11	300232001	Bracket, East-West, Ga 10 , 6 in Beams	8

^{*} Total embedment depth of the post varies, depending on overburden thickness.

HARDWARE BILL OF MATERIAL FOR 2X7

TINGOVINE BILL OF INVESTIGATION CONTRACTOR				
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	23
12	100064003	Bolt, Hex Flange, Serrated, 1/2"-13 x 1", Gr. 5, Magni 565	48	
13	100063002	Nut, Hex Flange, Serrated, 1/2"-13, Gr. 5, Magni 565	48	PRO
14	100063001	Nut, Hex Flange, Serrated, 3/8"-16, Gr. 5, Magni 565	80	PR
15	100045009	Bolt, Carriage, 3/8"-16 x 1", Gr. 5, Magni 565	80	
16	100033002	Washer, Split Lock, 1/2", HDG	8	POL
17	100015002	Nut, Hex Head, 1/2"-13, A194 Grade-2H, HDG	8	
18	100014015	Cap Screw, Hex Head, 1/2"-13 x 1-1/2", Gr. 8, HDG	8	DRA\
19	100011004	Washer, Flat, 1/2"x 1.375" O.D., HDG	16	



6889 Rexwood Road, Unit 5, Mississauga, ON L4V 1R2 TEL: (416) 860-6722 FAX: (519) 258-6664 www.polarracking.com

THIS DRAWING IS THE PROPERTY OF POLAR RACKING INCLUDING THE PRINCIPLES OF THE DESIGN INVOLVED. IT IS SUBMITTED WITH THE AGREEMENT THAT IT IS NOT TO BE REPRODUCED, SHARED OR DISTRIBUTED IN PART OR IN WHOLE. ACCEPTANCE OF THE DRAWING IS CONSTRUED AS AGREEMENT TO THE ABOVE.



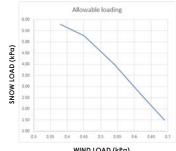
RACK TILT ANGLE (degrees): 30°

GENERAL NOTES:

1. CONTRACTOR TO CONFIRM WITH PV MODULE INSTALLATION MANUAL FOR CLAMPING ZONES TO ENSURE THEY ARE FASTENED PER MODULE REQUIREMENTS. 2. ORIGINAL WARRANTY WILL BE MAINTAINED IF ADJUSTMENTS MEET DRAWING SPECIFICATIONS

CLIMATIC DESIGN LOADS

SNOW AND WIND LOAD COMBINATION FALLING BELOW THE LINE IS ACCEPTABLE



WIND LOAD (kPa)





PROJECT NAME:

2X8 CONNECTION WITH 2X7 PRU-D DUAL C-CHANNEL LEG GROUND MOUNT

TITLE:

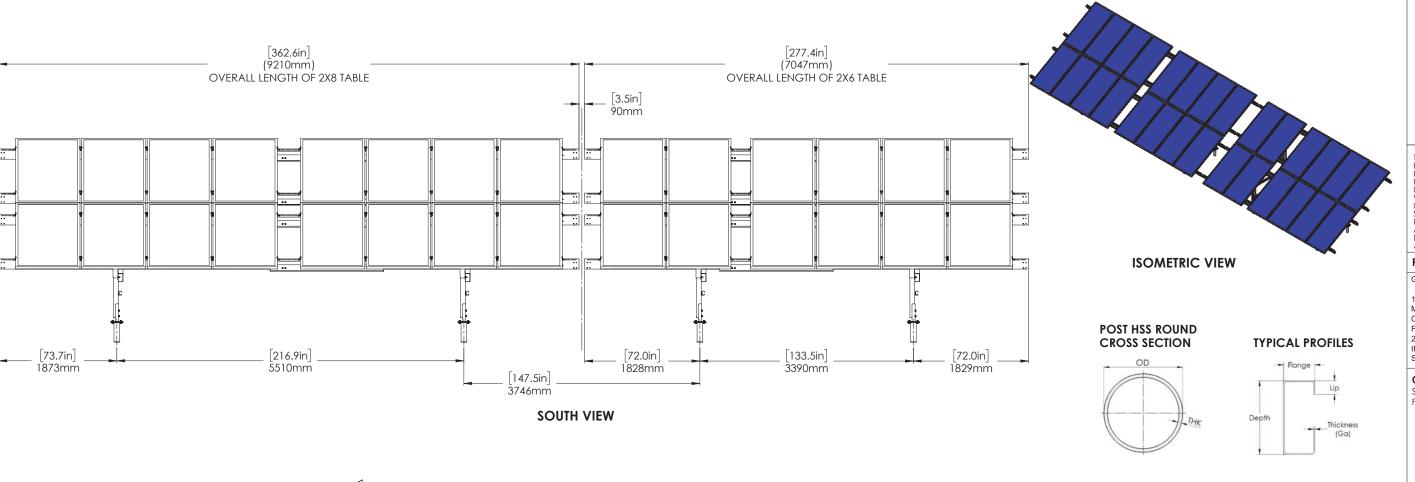
PRU-D TABLE FRAME ASSEMBLY,, PORTRAIT, DUAL C-CHANNEL LEG, 30°, MOD. (1950-2300)X(990-112)X(26-50) mm MODIFIED FOR 2X7

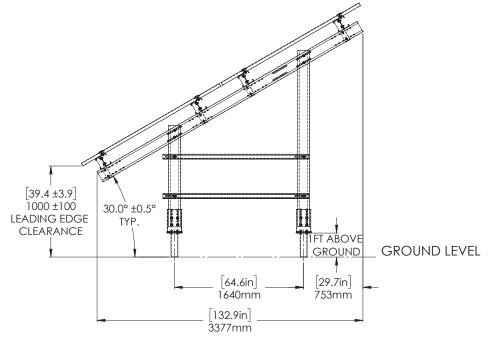
ROJ. NO.:	DWG. BY:	CHECKED. BY:	SCALE:			
PRU-D	PY	MA	NTS			
DI AR INTERNAL ASSEMBLY NUMBER:						

900510001

AWING NUMBER:

S-03-1





EAST VIEW

EAST-WEST BEAM NORTH-SOUTH BEAM 6 X 3 X 1 6 X 3 X 1 BRACE 2.5 X 2.0 X 0.5

TABLE LEG (FRONT)

TABLE LEG (BACK)

PART

POST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
2	900286002	Foot Bracket, Assembly, PRU Dual Leg, 6" C-Channel Post, 6x150 mm bolt circle Ground Screw, Adjustable N-S	4
3	300474002	Beam, EWE, C6x3x1, Ga12, 3998 mm, G90, P-2x8, Distr.	4
4	300475002	Beam, EWW, C6x3x1, Ga12, 5202 mm, G90, P-2x8, Distr.	4
5	300471002	Beam, NS, C6x3x1, Ga12, 3811 mm, G90, P-1P/2P, Distr.	2
6	300346004	Table Leg, Front, C6x3x1, Ga13, 1285 mm, G90, 30° Tilt	2
7	300345002	Beam, EW Splice, C6x3x1, Ga12, 1800 mm, G90, P-2x8, Distr.	4
8	300341002	Table Leg, Back, C6x3x1, Ga12, 2235 mm, G90, 30° Tilt	2
9	300324004	Brace, Lateral, C2.5x2x0.5, Ga13, 1850 mm, G90	4
10	300313XXX*	POST, 3.5" O.D., 0.25" WALL, ASTM A252, 50KSI Y.S	4
11	300232001	Bracket, East-West, Ga 10, 6 in Beams	8

MAIN COMPONENETS BILL OF MATERIAL FOR 2X8

HARDWARE BILL OF MATERIAL FOR 2X8

TEM NO.	PART NUMBER	DESCRIPTION	QTY.
14	100045010	Bolt, Carriage, 5/16"-18 x 2-1/2", Gr. 5, Magni 565	104
15	100063004	Nut, Hex Flange, Serrated, 5/16"-18, Gr. 5, Magni 565	168
16	100064005	Bolt, Hex Flange, Serrated, 5/16"-18 x 1", Gr. 5, Magni 565	64
17	100014015	Cap Screw, Hex Head, 1/2"-13 x 1-1/2", Gr. 8, HDG	8
18	100011009	Washer, Flat, 3/8" x 1" O.D., HDG	56
19	100033017	Washer, Split Lock, 3/8", HDG	48
20	100015002	Nut, Hex Head, 1/2"-13, A194 Grade-2H, HDG	8
22	400029001	Ronding Washer WEER DSV514 45	20

MAIN COMPONENETS BILL OF MATERIAL FOR 2X6

PROFILE (in.) Depth x Flange x Lip

3.5" OD

6 X 3 X 1

6 X 3 X 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
2	900286001	Foot Bracket, Assembly, PRU Dual Leg, 6" C-Channel Post, 6x150 mm bolt circle Ground Screw, Adjustable N-S	4
3	300475002-MOD For 2X6	Beam, EWW, C6x3x1, Ga12, 3039 mm, G90, P-2x8, Distr MOD for 2X6	4
4	300474002	Beam, EWE, C6x3x1, Ga12, 3998 mm, G90, P-2x8, Distr.	4
5	300471002	Beam, NS, C6x3x1, Ga12, 3811 mm, G90, P-1P/2P, Distr.	2
6	300346004	Table Leg, Front, C6x3x1, Ga13, 1285 mm, G90, 30° Tilt	2
7	300345002	Beam, EW Splice, C6x3x1, Ga12, 1800 mm, G90, P-2x8, Distr.	4
8	300341002	Table Leg, Back, C6x3x1, Ga12, 2235 mm, G90, 30° Tilt	2
9	300324004	Brace, Lateral, C2.5x2x0.5, Ga13, 1850 mm, G90	4
10	300313XXX*	POST, 3.5" O.D., 0.25" WALL, ASTM A252, 50KSI Y.S	4
11	300232001	Bracket, East-West, Ga 10, 6 in Beams	8

MIN. THICKNESS

(MM)

MATERIAL

Fy (ksi)

HARDWARE BILL OF MATERIAL FOR 2X6

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	23
12	100064003	Bolt, Hex Flange, Serrated, 1/2"-13 x 1", Gr. 5, Magni 565	48	
13	100063002	Nut, Hex Flange, Serrated, 1/2"-13, Gr. 5, Magni 565	48	PRO
14	100063001	Nut, Hex Flange, Serrated, 3/8"-16, Gr. 5, Magni 565	80	P
15	100045009	Bolt, Carriage, 3/8"-16 x 1", Gr. 5, Magni 565	80	
16	100033002	Washer, Split Lock, 1/2", HDG	8	POL
17	100015002	Nut, Hex Head, 1/2"-13, A194 Grade-2H, HDG	8	_
18	100014015	Cap Screw, Hex Head, 1/2"-13 x 1-1/2", Gr. 8, HDG	8	DRA
19	100011004	Washer, Flat, 1/2"x 1.375" O.D., HDG	16	1



6889 Rexwood Road, Unit 5, Mississauga, ON L4V 1R2 TEL: (416) 860-6722 FAX: (519) 258-6664 www.polarracking.com

THIS DRAWING IS THE PROPERTY OF POLAR RACKING INCLUDING THE PRINCIPLES OF THE DESIGN INVOLVED. IT IS SUBMITTED WITH THE AGREEMENT THAT IT IS NOT TO BE REPRODUCED, SHARED OR DISTRIBUTED IN PART OR IN WHOLE. ACCEPTANCE OF THE DRAWING IS CONSTRUED AS AGREEMENT TO THE ABOVE.



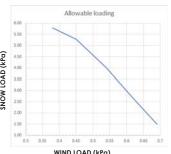
RACK TILT ANGLE (degrees): 30°

GENERAL NOTES:

1. CONTRACTOR TO CONFIRM WITH PV MODULE INSTALLATION MANUAL FOR CLAMPING ZONES TO ENSURE THEY ARE FASTENED PER MODULE REQUIREMENTS. 2. ORIGINAL WARRANTY WILL BE MAINTAINED IF ADJUSTMENTS MEET DRAWING SPECIFICATIONS

CLIMATIC DESIGN LOADS

SNOW AND WIND LOAD COMBINATION FALLING BELOW THE LINE IS ACCEPTABLE



WIND LOAD (kPa)





PROJECT NAME:

2X8 CONNECTION WITH 2X6 PRU-D DUAL C-CHANNEL LEG GROUND MOUNT

TITLE:

PRU-D TABLE FRAME ASSEMBLY,, PORTRAIT, DUAL C-CHANNEL LEG, 30°, MOD. (1950-2300)X(990-1112)X(26-50) mm MODIFIED FOR 2X6

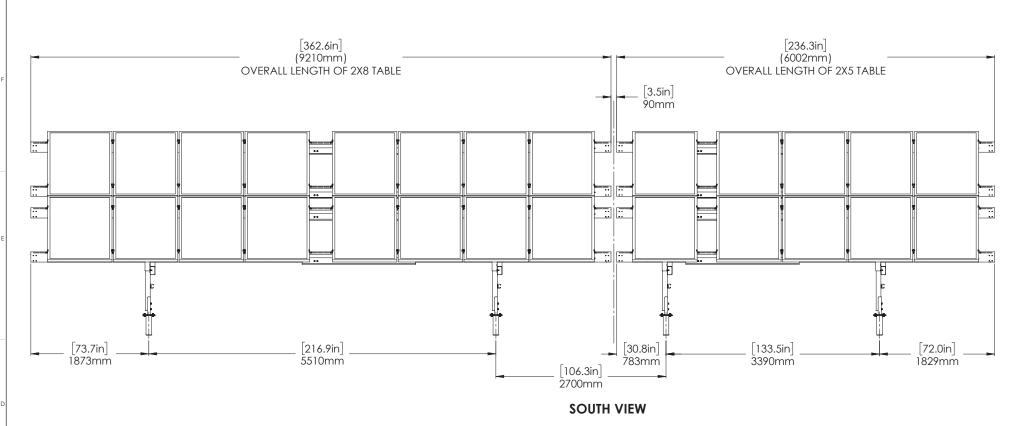
PROJ. NO.:	DWG. BY:	CHECKED. BY:	SCALE:			
PRU-D	PY	MA	NTS			
OLAR INTERNAL ASSEMBLY NUMBER:						

900510002

AWING NUMBER:

S-03-1

^{*} Total embedment depth of the post varies, depending on overburden thickness.



[39.4 ±3.9]

1000 ±100

LEADING EDGE

CLEARANCE

30.0° ±0.5°

TYP.

ÎFT ABOVE

GROUND

29.7in

753mm

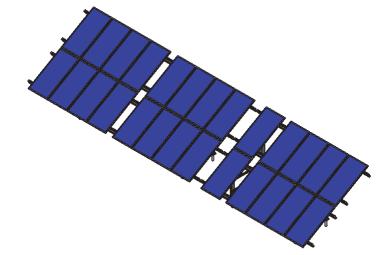
[64.6in] 1640mm

[132.9in]

3377mm

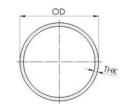
EAST VIEW

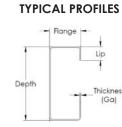
GROUND LEVEL



ISOMETRIC VIEW

POST HSS ROUND CROSS SECTION





PART	PROFILE (in.) Depth x Flange x Lip	MIN. THICKNESS (MM)	MATERIAL Fy (ksi)
POST	3.5" OD	6.35	50
TABLE LEG (FRONT)	6 X 3 X 1	2.35	50
IABLE LEG (FRONT)	0 / 3 / 1	2.15	55
TABLE LEG (BACK)	6 X 3 X 1	2.65	50
IABLE LEG (BACK)	0 / 3 / 1	2.50	60
EAST-WEST BEAM	6 X 3 X 1	2.50	50
NORTH-SOUTH BEAM	6 X 3 X 1	2.50	50
DDACE	2.5 X 2.0 X 0.5	2.35	50
BRACE	2.5 \(\) 2.0 \(\) 0.5	2.15	55

MAIN COMPONENETS BILL OF MATERIAL FOR 2X8

NO.	PART NUMBER	DESCRIPTION	QTY.
2	900286002	Foot Bracket, Assembly, PRU Dual Leg, 6" C-Channel Post, 6x150 mm bolt circle Ground Screw, Adjustable N-S	4
3	300474002	Beam, EWE, C6x3x1, Ga12, 3998 mm, G90, P-2x8, Distr.	4
4	300475002	Beam, EWW, C6x3x1, Ga12, 5202 mm, G90, P-2x8, Distr.	4
5	300471002	Beam, NS, C6x3x1, Ga12, 3811 mm, G90, P-1P/2P, Distr.	2
6	300346004	Table Leg, Front, C6x3x1, Ga13, 1285 mm, G90, 30° Tilt	2
7	300345002	Beam, EW Splice, C6x3x1, Ga12, 1800 mm, G90, P-2x8, Distr.	4
8	300341002	Table Leg, Back, C6x3x1, Ga12, 2235 mm, G90, 30° Tilt	2
9	300324004	Brace, Lateral, C2.5x2x0.5, Ga13, 1850 mm, G90	4
10	300313XXX*	POST, 3.5" O.D., 0.25" WALL, ASTM A252, 50KSI Y.S	4
11	300232001	Bracket, East-West, Ga 10, 6 in Beams	8

HARDWARE BILL OF MATERIAL FOR 2X8

TEM NO.	PART NUMBER	DESCRIPTION	QTY.
14	100045010	Bolt, Carriage, 5/16"-18 x 2-1/2", Gr. 5, Magni 565	104
15	100063004	Nut, Hex Flange, Serrated, 5/16"-18, Gr. 5, Magni 565	168
16	100064005	Bolt, Hex Flange, Serrated, 5/16"-18 x 1", Gr. 5, Magni 565	64
17	100014015	Cap Screw, Hex Head, 1/2"-13 x 1-1/2", Gr. 8, HDG	8
18	100011009	Washer, Flat, 3/8" x 1" O.D., HDG	56
19	100033017	Washer, Split Lock, 3/8", HDG	48
20	100015002	Nut, Hex Head, 1/2"-13, A194 Grade-2H, HDG	8
22	400029001	Bonding Washer WEER-DSK516-45	20

MAIN COMPONENETS BILL OF MATERIAL FOR 2X5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
2	900286001	Foot Bracket, Assembly, PRU Dual Leg, 6" C-Channel Post, 6x150 mm bolt circle Ground Screw, Adjustable N-S	4
3	300475002-MOD for 2x5	Beam, EWE, C6x3x1, Ga14, 2x18, 5826mm, 1994x1000x35mm PV	4
4	300474002	Beam, EWE, C6x3x1, Ga12, 3998 mm, G90, P-2x8, Distr.	4
5	300471002	Beam, NS, C6x3x1, Ga12, 3811 mm, G90, P-1P/2P, Distr.	2
6	300346004	Table Leg, Front, C6x3x1, Ga13, 1285 mm, G90, 30° Tilt	2
7	300345002	Beam, EW Splice, C6x3x1, Ga12, 1800 mm, G90, P-2x8, Distr.	4
8	300341002	Table Leg, Back, C6x3x1, Ga12, 2235 mm, G90, 30° Tilt	2
9	300324004	Brace, Lateral, C2.5x2x0.5, Ga13, 1850 mm, G90	4
10	300313XXX*	POST, 3.5" O.D., 0.25" WALL, ASTM A252, 50KSI Y.S	4
11	300232001	Bracket, East-West, Ga 10 , 6 in Beams	8

 $[\]ensuremath{^*}$ Total embedment depth of the post varies, depending on overburden thickness.

HARDWARE BILL OF MATERIAL FOR 2X5

	HARDWARE BILL OF MATERIAL FOR 2A3						
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.				
12	100064003	Bolt, Hex Flange, Serrated, 1/2"-13 x 1", Gr. 5, Magni 565	48				
13	100063002	Nut, Hex Flange, Serrated, 1/2"-13, Gr. 5, Magni 565	48	PF			
14	100063001	Nut, Hex Flange, Serrated, 3/8"-16, Gr. 5, Magni 565	80	l			
15	100045009	Bolt, Carriage, 3/8"-16 x 1", Gr. 5, Magni 565	80	_			
16	100033002	Washer, Split Lock, 1/2", HDG	8	PC			
17	100015002	Nut, Hex Head, 1/2"-13, A194 Grade-2H, HDG	8	<u> </u>			
18	100014015	Cap Screw, Hex Head, 1/2"-13 x 1-1/2", Gr. 8, HDG	8	DR			
10	100011004	Washer Flat 1/2"v 1 375" O.D. HDG	1.4	l			



6889 Rexwood Road, Unit 5, Mississauga, ON L4V 1R2 TEL: (416) 860-6722 FAX: (519) 258-6664 www.polarracking.com

THIS DRAWING IS THE PROPERTY OF POLAR RACKING INCLUDING THE PRINCIPLES OF THE DESIGN INVOLVED. IT IS SUBMITTED WITH THE AGREEMENT THAT IT IS NOT TO BE REPRODUCED, SHARED OR DISTRIBUTED IN PART OR IN WHOLE. ACCEPTANCE OF THE DRAWING IS CONSTRUED AS AGREEMENT TO THE ABOVE.



REV.:

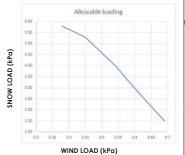
RACK TILT ANGLE (degrees): 30°

ENERAL NOTES:

1. CONTRACTOR TO CONFIRM WITH PV MODULE INSTALLATION MANUAL FOR CLAMPING ZONES TO ENSURE THEY ARE FASTENED PER MODULE REQUIREMENTS. 2. ORIGINAL WARRANTY WILL BE MAINTAINED IF ADJUSTMENTS MEET DRAWING SPECIFICATIONS

CLIMATIC DESIGN LOADS

SNOW AND WIND LOAD COMBINATION FALLING BELOW THE LINE IS ACCEPTABLE







PROJECT NAME:

2X8 CONNECTION WITH 2X5 PRU-D DUAL C-CHANNEL LEG GROUND MOUNT

TITLE:

PRU-D TABLE FRAME ASSEMBLY,, PORTRAIT, DUAL C-CHANNEL LEG, 30°, MOD. (1950-2300)X(990-1112)X(26-50) mm MODIFIED FOR 2X5

PROJ. NO.:	DWG. BY:	CHECKED. BY:	SCALE:			
PRU-D	VT	MA	NTS			
OLAR INTERNAL ASSEMBLY NUMBER:						

R INTERNAL ASSEMBLY NUME 900510003

PRAWING NUMBER:

S-03-1

