

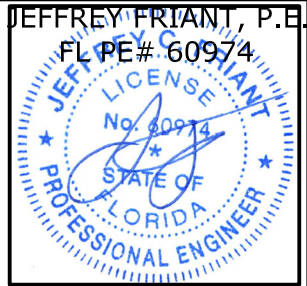
GENERAL NOTES:

1. THE PIPE STAND SYSTEM SHOWN WITHIN THIS PRODUCT EVALUATION DOCUMENT HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE CURRENT FLORIDA BUILDING CODE AND CURRENT ASCE DESIGN REQUIREMENTS FOR USE WITHIN THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND NON-HVHZ DEFINED AREAS.
2. DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED SEPARATELY ON A SITE SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE USING ASD METHODOLOGY AND IN ACCORDANCE WITH CURRENT VERSION OF ASCE WIND LOAD PROVISIONS, AND THE CURRENT FLORIDA BUILDING CODE. THE REQUIRED ASD DESIGN PRESSURES MUST BE LESS THAN OR EQUAL TO THE LATERAL AND UPLIFT DESIGN PRESSURES LISTED IN THE ACCOMPANYING DESIGN TABLES.
3. INSTALLATION CONTRACTOR SHALL ENSURE THAT EACH PIPE STAND ASSEMBLY MEETS THE MINIMUM CLEARANCE HEIGHT REQUIREMENTS AS SET FORTH IN THE CURRENT FLORIDA BUILDING CODE, HVHZ SECTION 1522.2 AND NON-HVHZ SECTION 1510.10. CLEARANCE HEIGHT IS A FLORIDA BUILDING CODE REQUIREMENT, SEE APPROPRIATE CODE SECTIONS FOR SPECIFIC HEIGHT REQUIREMENTS. CLEARANCE HEIGHT MAY NOT BE THE SAME AS STAND HEIGHT AND SHOULD BE ACCOUNTED FOR WHEN SPECIFYING AND ORDERING MATE
4. THE ARCHITECT OR ENGINEER OF RECORD FOR THE STRUCTURE WHERE THIS SYSTEM IS TO BE INSTALLED SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO WITHSTAND THE SUPERIMPOSED LOADS.
5. STRUCTURAL ADEQUACY OF THIS SYSTEM HAS BEEN CONSIDERED IN THIS PRODUCT APPROVAL. WIND LOADS AND PIPE WEIGHTS WERE CONSIDERED IN THE EVALUATION OF LOADED MEMBERS OF THIS SYSTEM.
6. MAXIMUM DIMENSIONS OF THE PIPE WORK SHALL CONFORM TO THOSE SPECIFIED IN THE TABLES PROVIDED HEREIN.
7. ELECTRICAL GROUND, IF REQUIRED, TO BE DESIGNED AND INSTALLED BY OTHERS.
8. THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SUBSTRATE SHALL BE 4,000 PSI OR GREATER.
9. ALL OF THE STEEL PARTS OF THIS SYSTEM SHALL BE COATED WITH A RUST INHIBITING MATERIAL. STAINLESS STEEL VERSIONS OF THIS SYSTEM DO NOT REQUIRE ADDITIONAL FINISH. ALUMINUM VERSIONS OF THIS SYSTEM ARE NOT INCLUDED IN THIS PRODUCT APPROVAL. SEE SEPARATE APPROVAL FOR ALUMINUM VERSION OF THIS SYSTEM.
10. THE ENGINEER’S SEAL AFFIXED TO THIS SET OF PRODUCT APPROVAL DRAWINGS SOLELY VALIDATES THE STRUCTURAL DESIGN AND ATTACHMENT TO THE HOST STRUCTURE AS SHOWN HEREIN. USE OF THIS SYSTEM BY CONTRACTOR, ET AL., INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FOR ANY AND ALL COSTS AND/OR DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES, AND FROM DEVIATIONS OF THIS PLAN. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED WITH THIS DOCUMENT.
11. THIS DOCUMENT IS GENERIC AND DOES NOT PERTAIN TO ANY SPECIFIC PROJECT SITE. INFORMATION CONTAINED HEREIN IS BASED ON MANUFACTURER SUPPLIED DATA AND MEASUREMENTS. THIS ENGINEER SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA.

ANCHOR SCHEDULE				
SUBSTRATE	ANCHOR TYPE	EMBEDMENT	EDGE DIST.	ANCHOR SPACING
4 KSI CONCRETE	½" DeWALT MINI DROP-IN	1.0"	6"	PER PB20 BASE

Jeffrey C. Friant

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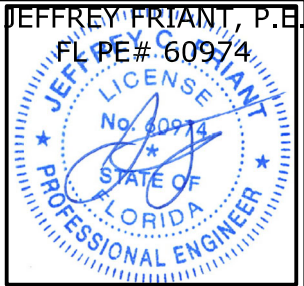
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EBERL
IRON WORKS, INC.

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PIPE Stand Product Approval
FL48287.2

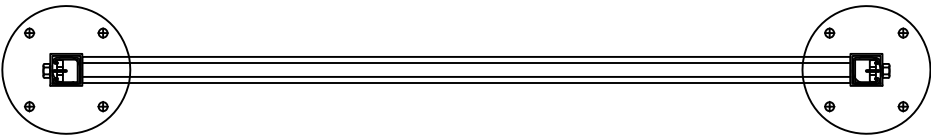
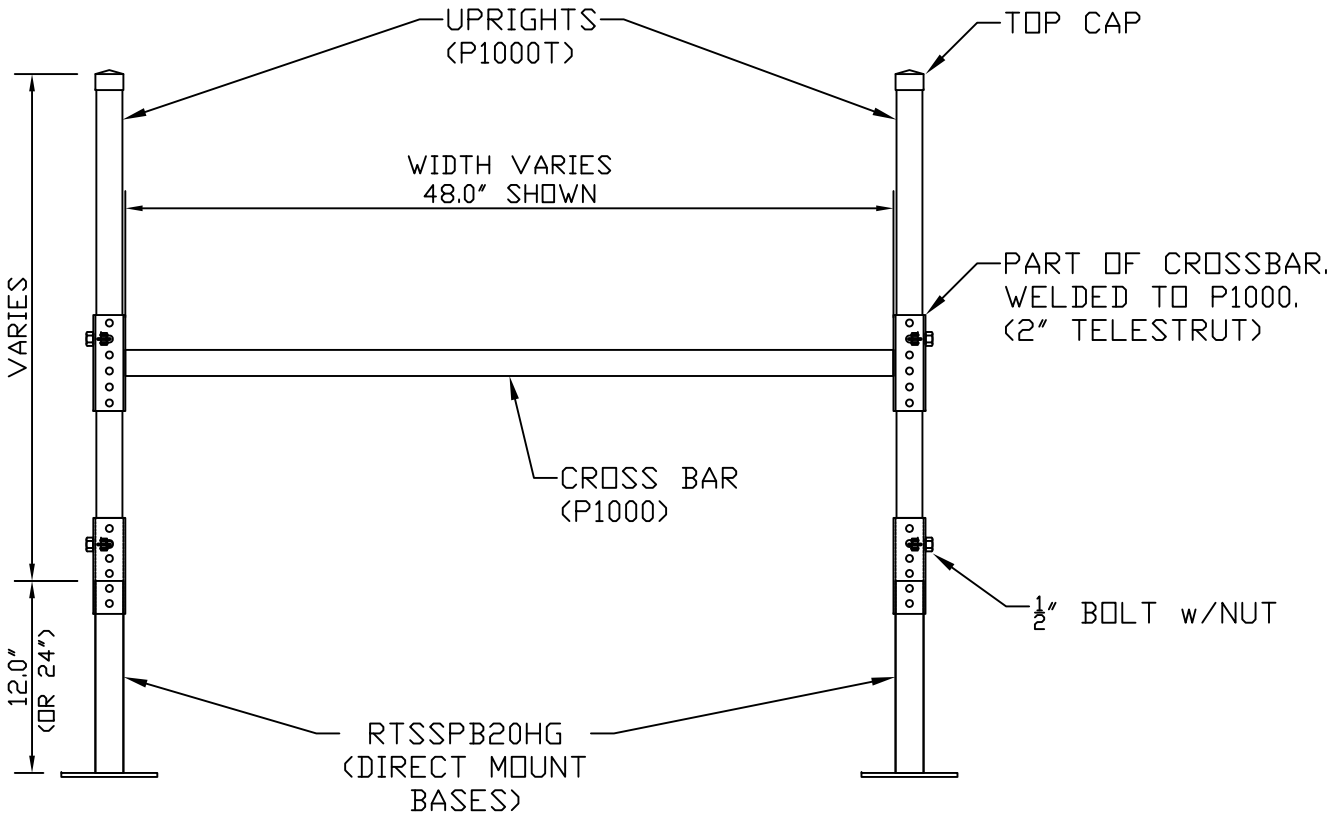
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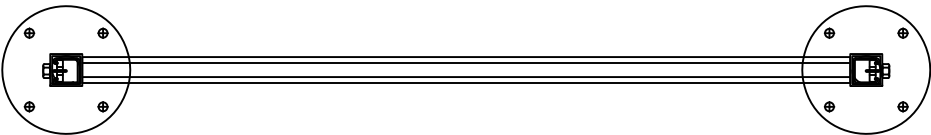
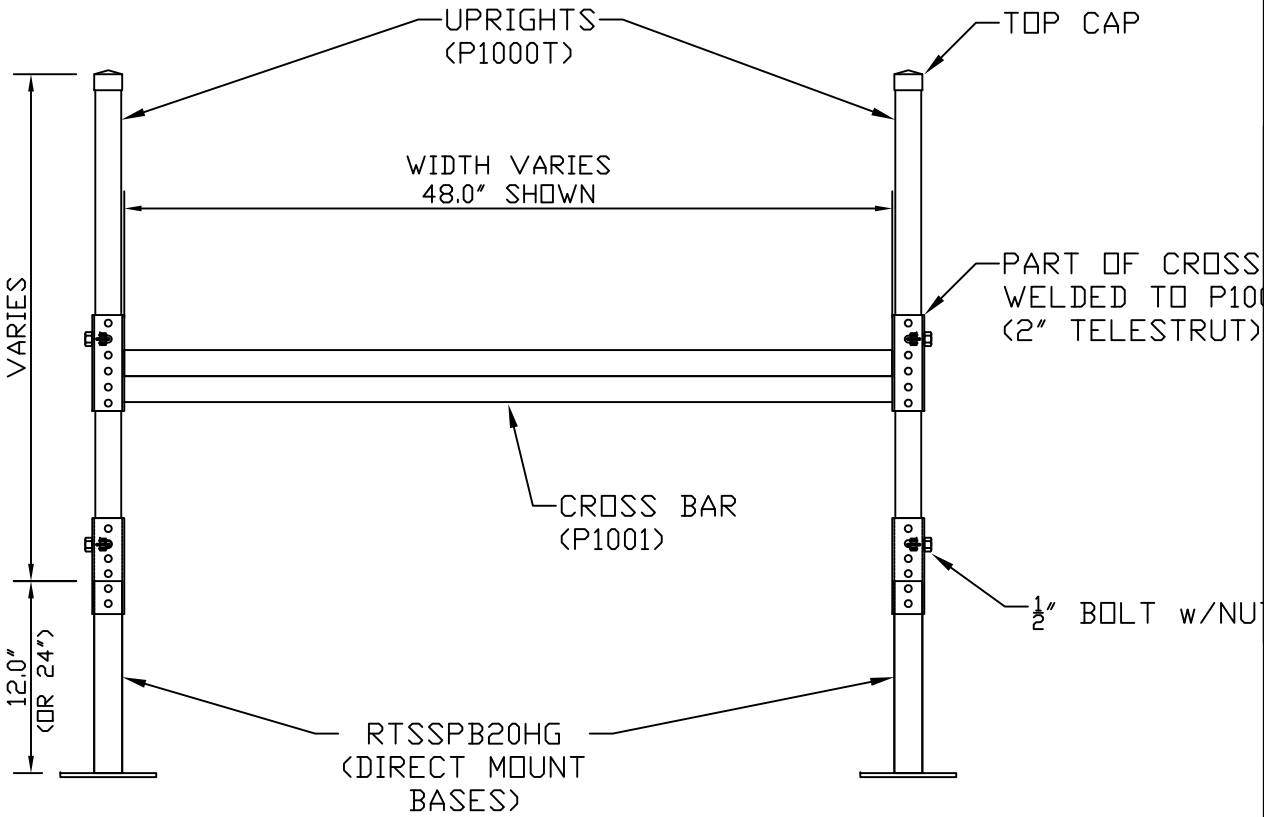
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RTSH-P

SIZES:
WIDTH -
12", 18", 24", 30, 36"
HEIGHT -
18", 24", 30",
CUSTOM SIZES AVAILABLE



RTSH-P1

SIZES:
WIDTH -
24", 30, 36", 42, 48", 54", 60"
HEIGHT -
18", 24", 30"
CUSTOM SIZES AVAILABLE

1 TYPICAL STAND CONFIGURATIONS
2 SCALE: 1" = 1'-0" ELEVATION VIEW

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SHEET 2 of 4			

EBERL IRON WORKS, INC. - PIPE STAND RTSH-P SPAN TABLE

STAND WIDTH	12"	18"	24"	30"	36"		PIPE Ø (in)
TOTAL PIPE WEIGHT	225 lbs	225 lbs	180 lbs	88 lbs	88 lbs		
MAXIMUM SPAN BETWEEN STANDS	8.0 ft	8.0 ft	8.0 ft	6.5 ft	3.7 ft		3
	8.0 ft	8.0 ft	8.0 ft	4.5 ft	4.5 ft		4
	8.0 ft	8.0 ft	6.7 ft	3.3 ft	3.3 ft		5
	6.3 ft	6.3 ft	5.1 ft	2.5 ft	2.5 ft		6
	3.9 ft	3.9 ft	3.2 ft	1.5 ft	1.5 ft		8
	2.7 ft	2.7 ft	2.2 ft	-	-		10
	2.0 ft	2.0 ft	1.6 ft	-	-		12

PIPE STAND RTSH-P1 SPAN TABLE

STAND WIDTH	18"	24"	30"	36"	42"	48"	54"	60"		PIPE Ø (in)
TOTAL PIPE WEIGHT	1100 lbs	900 lbs	550 lbs	385 lbs	285 lbs	215 lbs	170 lbs	140 lbs		
MAXIMUM SPAN BETWEEN STANDS	8.0 ft	8.0 ft	8.0 ft	8.0 ft	8.0 ft	8.0 ft	6.3 ft	5.2 ft		5
	8.0 ft	8.0 ft	8.0 ft	8.0 ft	7.9 ft	6.1 ft	4.8 ft	3.9 ft		6
	8.0 ft	8.0 ft	8.0 ft	6.8 ft	5.0 ft	3.8 ft	3.0 ft	2.5 ft		8
	8.0 ft	8.0 ft	6.6 ft	4.6 ft	3.4 ft	2.6 ft	2.0 ft	1.7 ft		10
	8.0 ft	7.8 ft	4.8 ft	3.3 ft	2.5 ft	1.9 ft	1.5 ft	-		12

HOW TO USE THESE TABLES TO DETERMINE SPANS FOR MULTIPLE PIPE COMBINATIONS:

1. USE THE "PIPE WEIGHT" TABLE TO DETERMINE THE TOTAL WEIGHT PER FOOT OF ALL PIPES BEING ATTACHED TO THE STAND.
2. CHOOSE THE WIDTH OF THE STAND THAT BEST SUITS THE INSTALLATION
3. DIVIDE THE TOTAL PIPE WEIGHT BY THE SUM OF THE WEIGHT PER FOOT FROM STEP 1.
4. PIPE STAND SPANS OVER 96 INCHES REQUIRE SITE SPECIFIC EVALUATION.
5. THIS INITIAL RELEASE OF THE PIPE STAND IS CURRENTLY LIMITED TO THE STAND HEIGHTS AND REQUIRED DESIGN PRESSURES LISTED IN THE MAXIMUM DESIGN TABLE.

PIPE Ø (in)	PIPE WEIGHT (lbs/ft) **
3	13.5
4	19.5
5	27.0
6	35.5
8	57.0
10	83.0
12	115.0

PIPE WEIGHT TABLE:

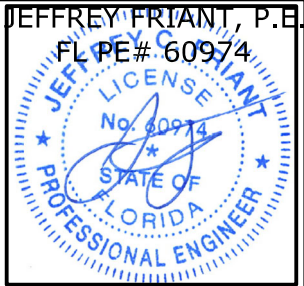
1. SCHEDULE 40 STEEL PIPE
2. 1" INSULATION UP TO Ø6"
3. 1.5" INSULATION FOR Ø's > 8"
4. PIPES ARE CONSIDERED FULL

MAXIMUM DESIGN
PRESSURE TABLE

STAND HEIGHT	ALLOWABLE DESIGN PRESSURE
12"	150
18"	135
24"	120
30"	110
36"	100

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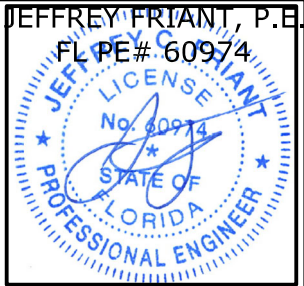
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EBERL IRON WORKS, INC. - COMPONENT LIST

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