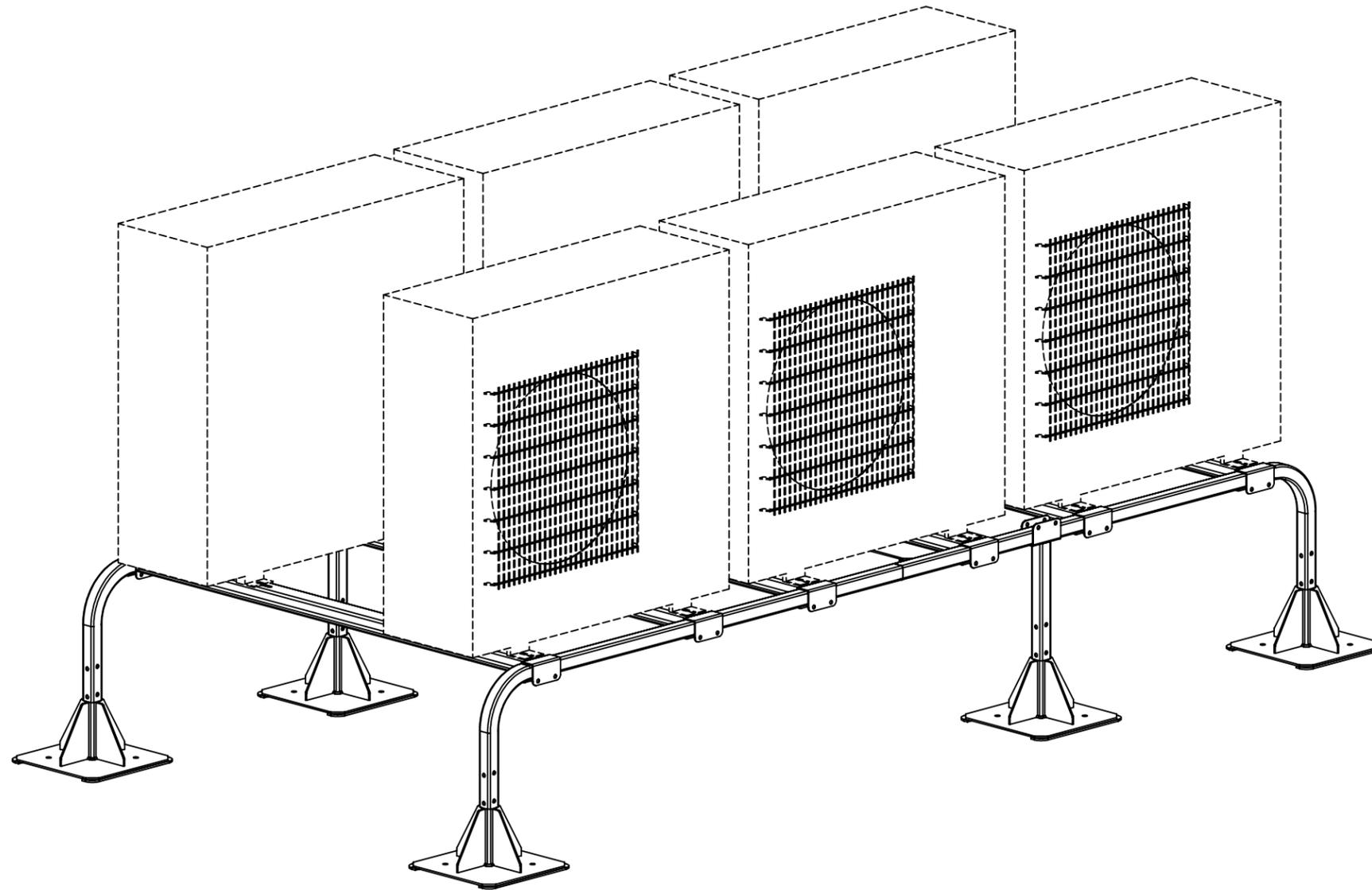




# QUICK SLING MINISPLIT SUPERSTAND (QSMS3001 AND VARIANTS)



UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES [MILLIMETERS]  
 TOLERANCES ARE: ANGLES  $\pm 1.0^\circ$   
 FRACTIONAL SIZES X/Y  $\pm 1/64$

INCHES	[MILLIMETERS]
X = $\pm 0.1$	[ X = $\pm 2.5$ ]
.XX = $\pm 0.01$	[ .X = $\pm 1.3$ ]
.XXX = $\pm 0.005$	[ .XX = $\pm 0.13$ ]

THIRD ANGLE PROJECTION



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 DO NOT SCALE DRAWING

ASSEMBLY:	QSMS3001
DWG. NO.	FL-22415.1

WEIGHT	
REV.	<b>R1</b>
SHEET	1 OF 20

4

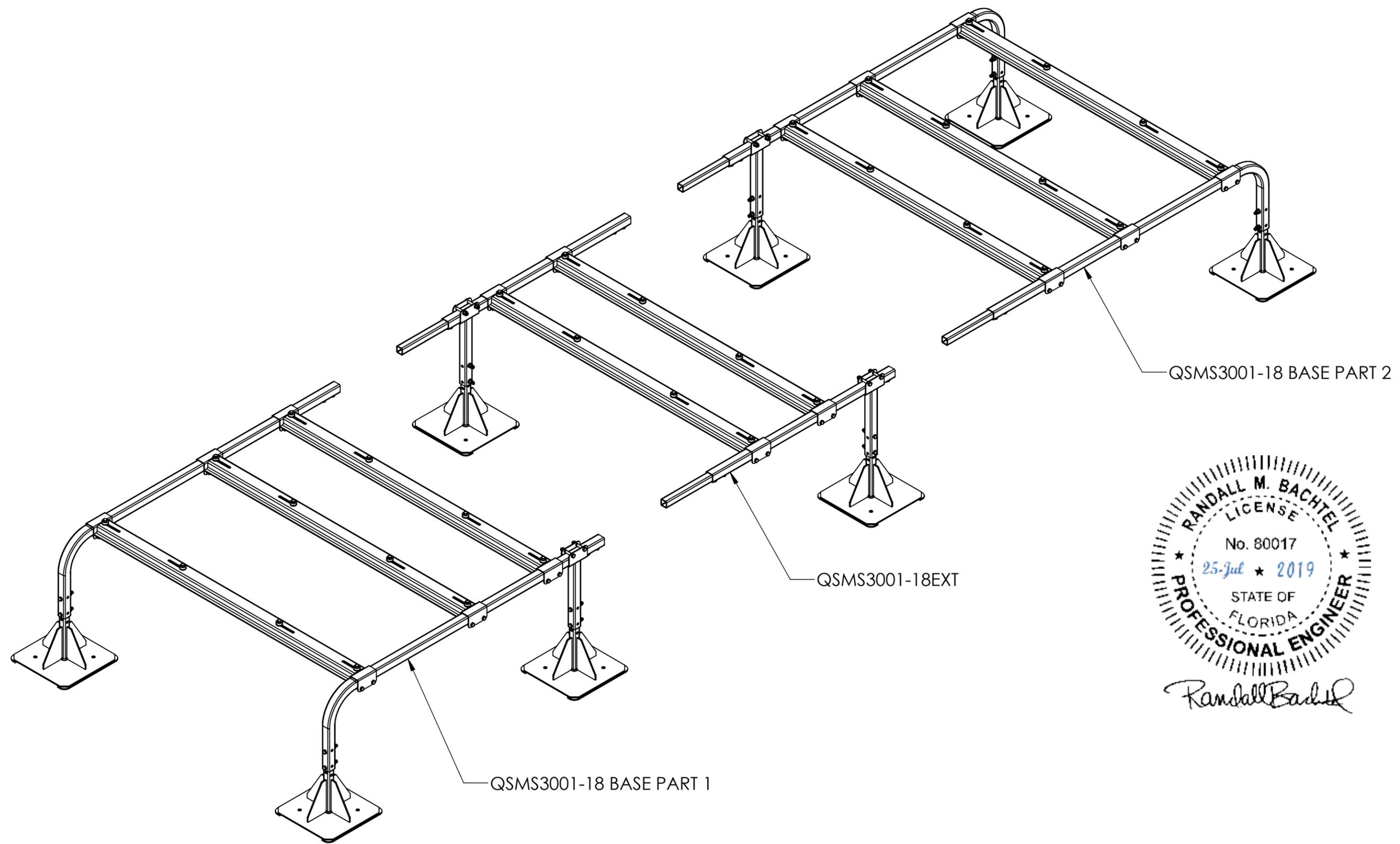
3

2

1

B

B



A

A

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES [MILLIMETERS]  
 TOLERANCES ARE: ANGLES ±1.0°  
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[ X = ± 2.5 ]
.XX = ±0.01	[ .X = ± 1.3 ]
.XXX = ±0.005	[ .XX = ±0.13 ]

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 DO NOT SCALE DRAWING

ASSEMBLY:	QSMS3001
DWG. NO.	FL-22415.1
DESCRIPTION	

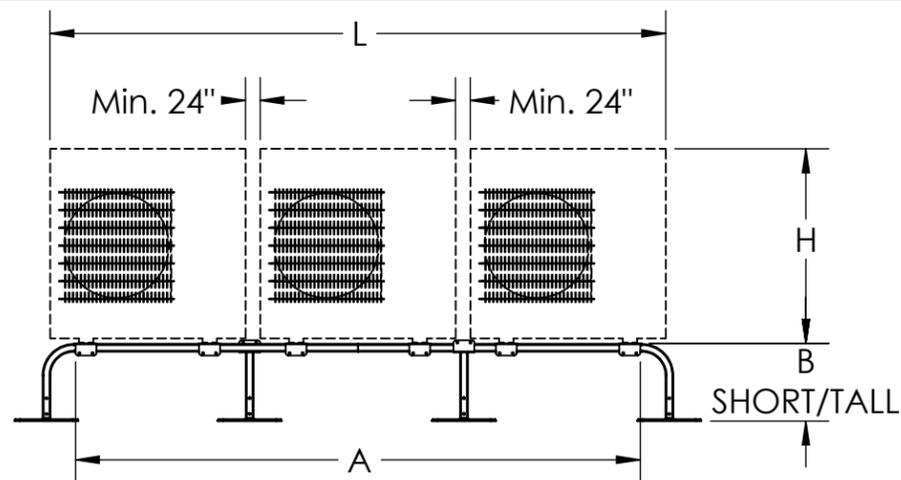
WEIGHT	
REV.	R1
SHEET	2 OF 20

4

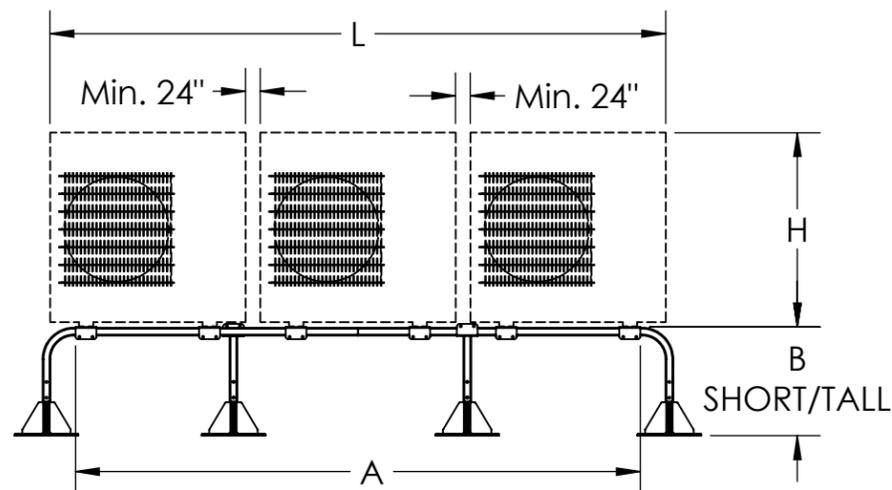
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2

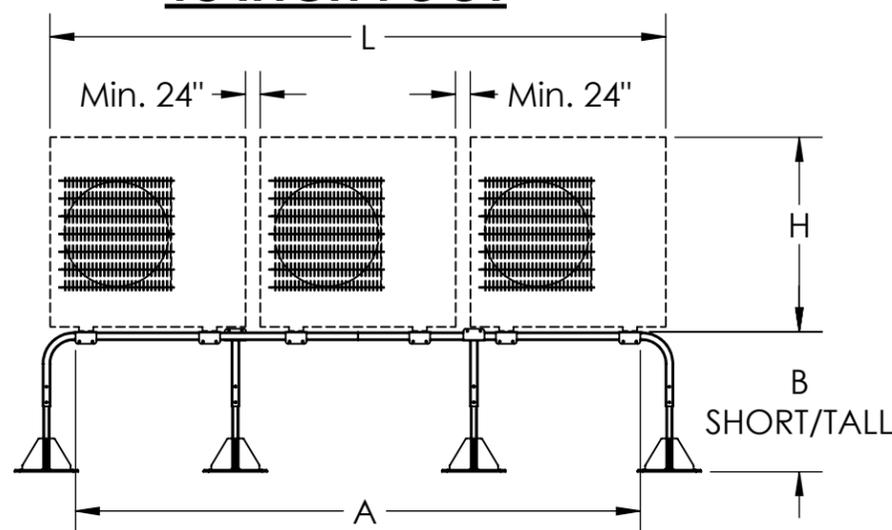
1



**12 INCH FOOT**



**18 INCH FOOT**



**24 INCH FOOT**

CONFIGURATION	DIMENSION A	DIMENSION B	DIMENSION C
QMS3001-12 SHORT	24"	14.9"	69.9"
QMS3001-12 TALL	108.75"	16.6"	69.9"
QMS3001-12M SHORT	24"	14.9"	69.9"
QMS3001-12M TALL	108.75"	16.6"	69.9"
QMS3001-18 SHORT	24"	20.75"	69.9"
QMS3001-18 TALL	108.75"	22.5"	69.9"
QMS3001-18M SHORT	24"	20.75"	69.9"
QMS3001-18M TALL	108.75"	22.5"	69.9"
QMS3001-24 SHORT	24"	26.75"	69.9"
QMS3001-24 TALL	108.75"	28.5"	69.9"
QMS3001-24M SHORT	24"	26.75"	69.9"
QMS3001-24M TALL	108.75"	28.5"	69.9"



CONFIGURATION	DIMENSION H MAXIMUM	DIMENSION L MAXIMUM	DIMENSION W MAXIMUM
QMS3001-12	53	130	54
QSMS3001-12M	53	130	54
QMS3001-18	53	130	54
QSMS3001-18M	53	130	54
QMS3001-24	53	130	54
QSMS3001-24M	53	130	54

MINIMUM WEIGHT FOR MINISPLIT IS 55 LBS

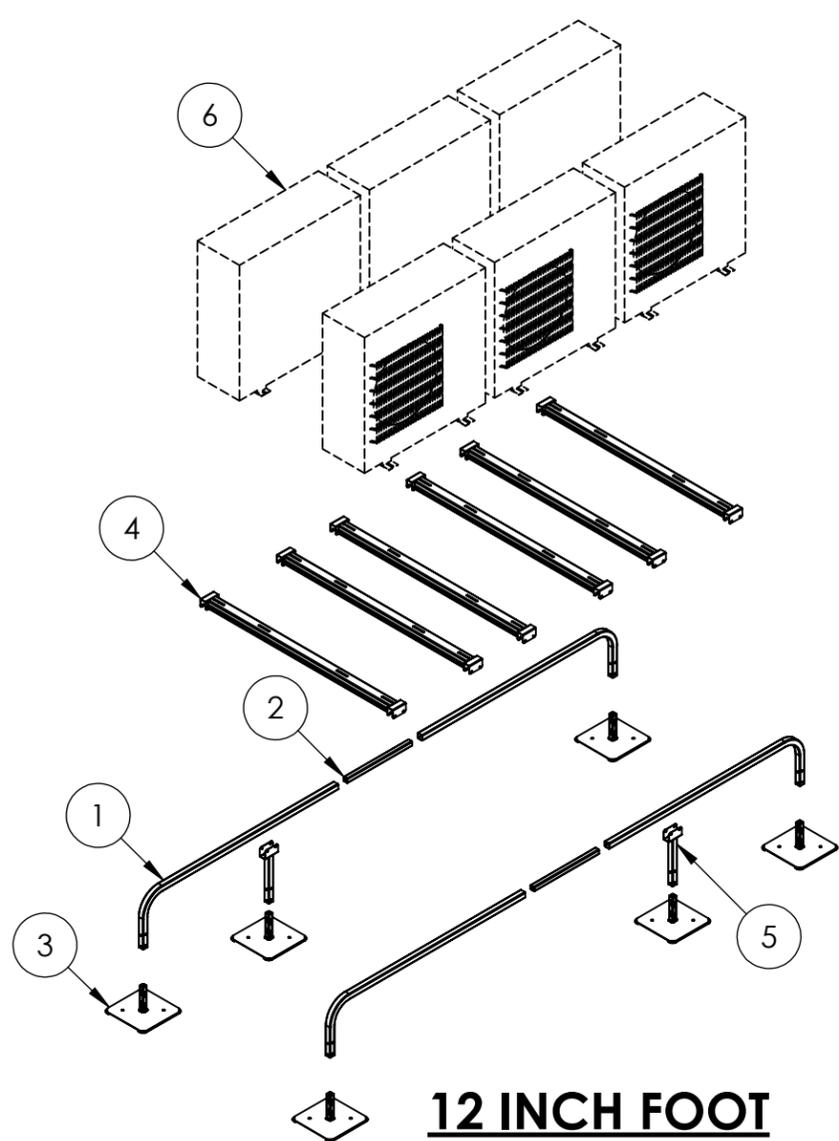
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 DIMENSIONS ARE IN INCHES [MILLIMETERS]  
 TOLERANCES ARE: ANGLES ±1.0°  
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[ X = ± 2.5 ]
.XX = ±0.01	[ .X = ± 1.3 ]
.XXX = ±0.005	[ .XX = ±0.13 ]

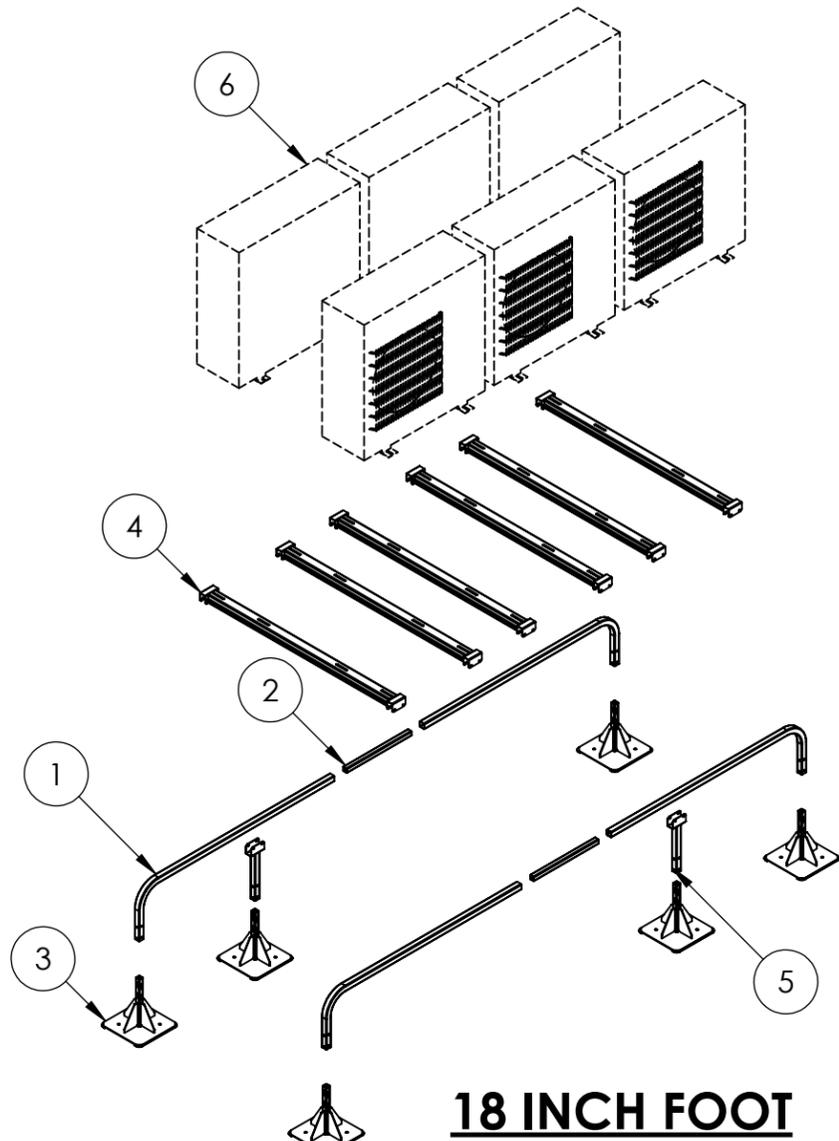
THIRD ANGLE PROJECTION



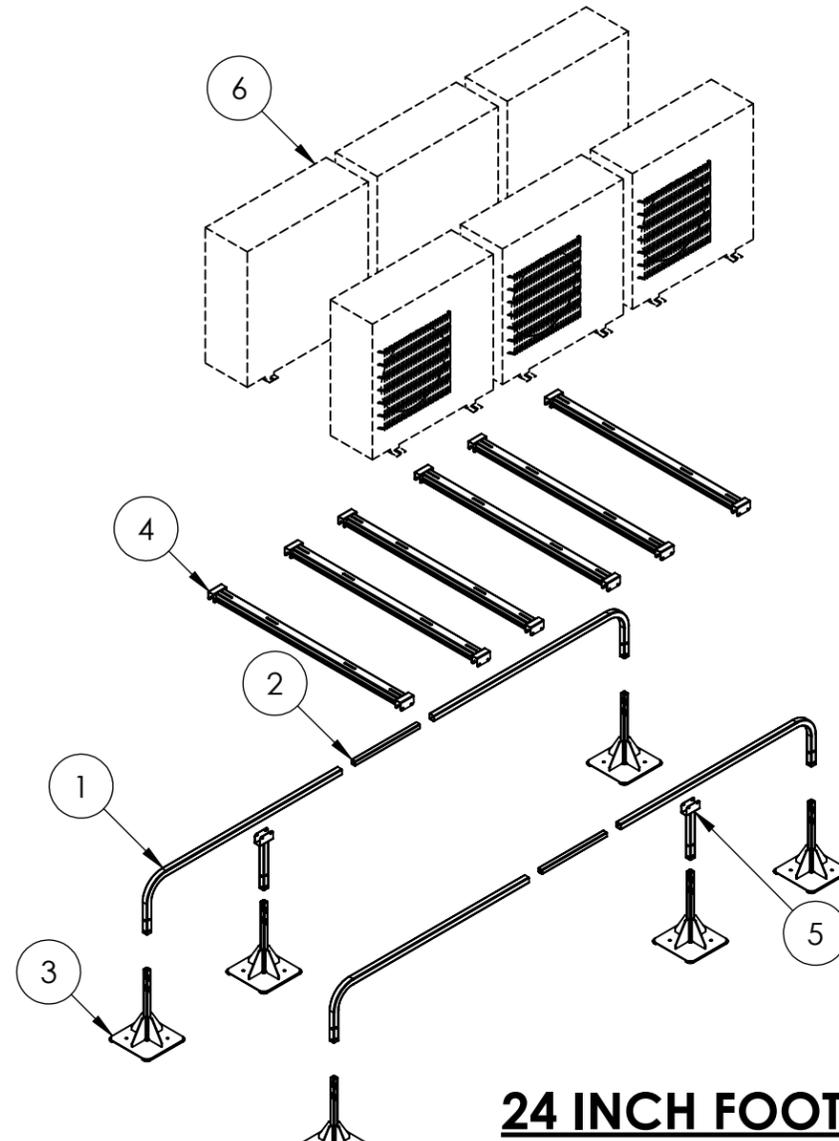
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	DESCRIPTION	



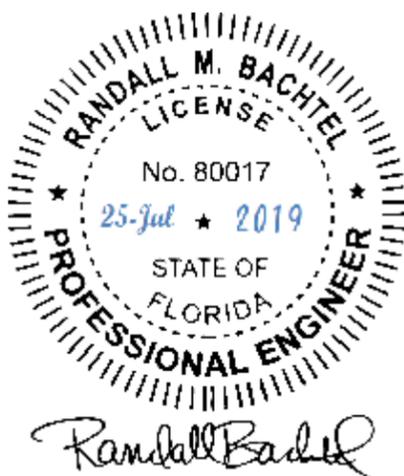
**12 INCH FOOT**



**18 INCH FOOT**



**24 INCH FOOT**



CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6
QSMS3001-12	MNT-A10-03-469	MNT-A10-03-468	SS102-12	MNT-A10-03-471	MNT-A10-03-473	EQUIPMENT PACKAGE
QSMS3001-12M	MNT-A10-03-469M	MNT-A10-03-468M	SS102-12M	MNT-A10-03-471M	MNT-A10-03-473M	EQUIPMENT PACKAGE
QSMS3001-18	MNT-A10-03-469	MNT-A10-03-468	SS102-18	MNT-A10-03-471	MNT-A10-03-473	EQUIPMENT PACKAGE
QSMS3001-18M	MNT-A10-03-469M	MNT-A10-03-468M	SS102-18M	MNT-A10-03-471M	MNT-A10-03-473M	EQUIPMENT PACKAGE
QSMS3001-24	MNT-A10-03-469	MNT-A10-03-468	SS102-24	MNT-A10-03-471	MNT-A10-03-473	EQUIPMENT PACKAGE
QSMS3001-24M	MNT-A10-03-469M	MNT-A10-03-468M	SS102-24M	MNT-A10-03-471M	MNT-A10-03-473M	EQUIPMENT PACKAGE

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 TOLERANCES ARE: ANGLES ±1.0°  
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[ X = ± 2.5 ]
.XX = ±0.01	[ .X = ± 1.3 ]
.XXX = ±0.005	[ .XX = ±0.13 ]

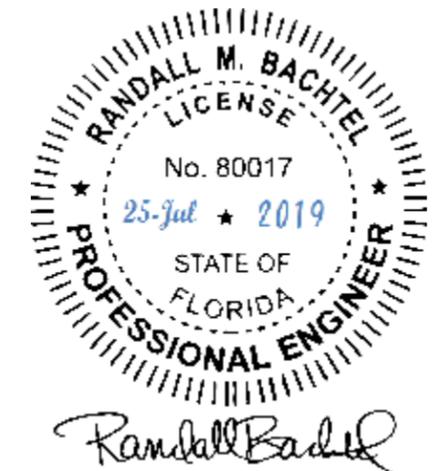
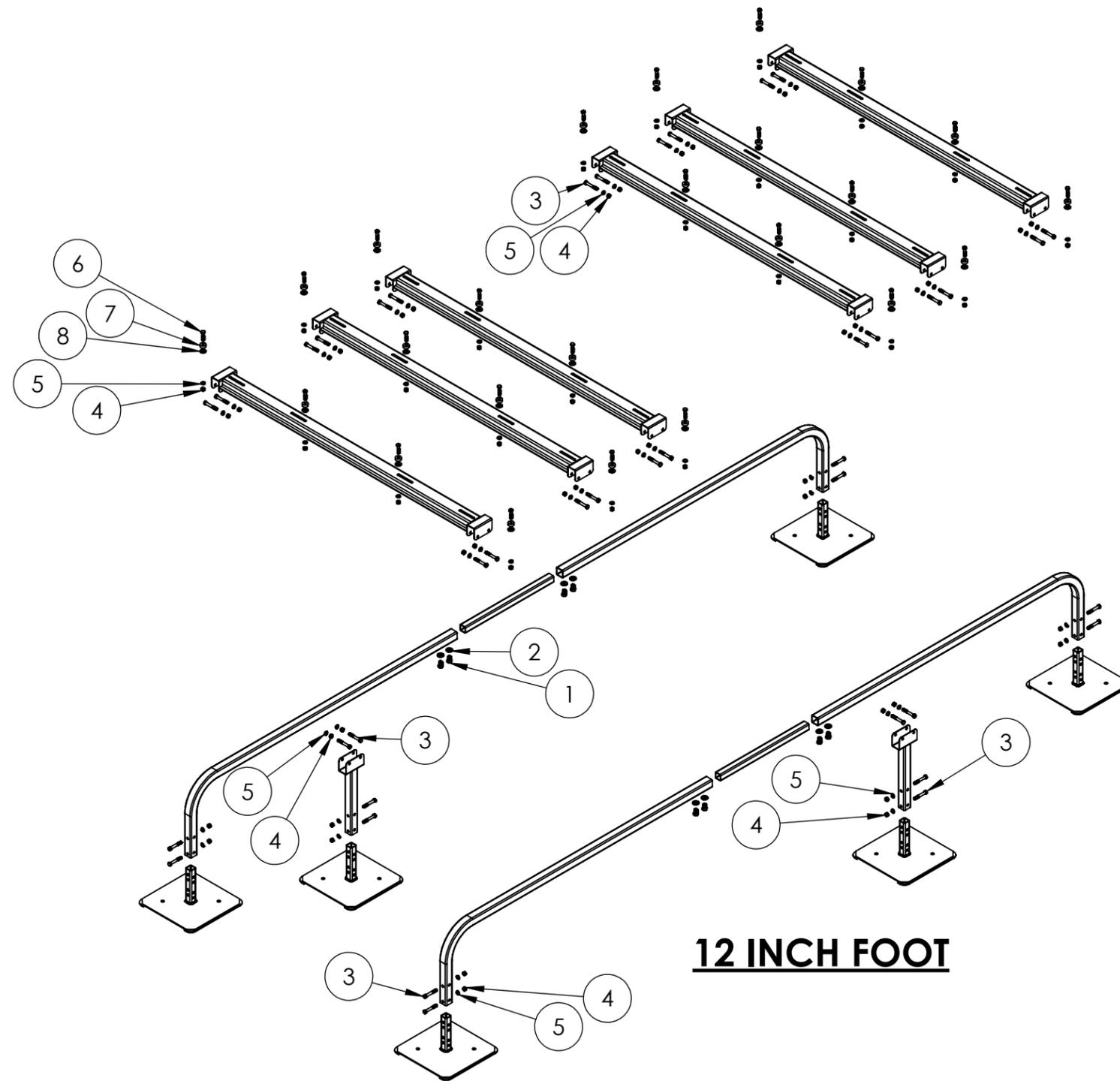
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MATERIAL:  
 DWG. NO. **FL-22415.1**

WEIGHT  
 GMS.  
 REV.  
**R1**  
 SHEET  
 4 OF 20



CONFIGURATION	HARDWARE KIT	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSMS3001-12	HDKMS07	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER
QSMS3001-12M	HDKM07	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER

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 FRACTIONAL SIZES X/Y ±1/64

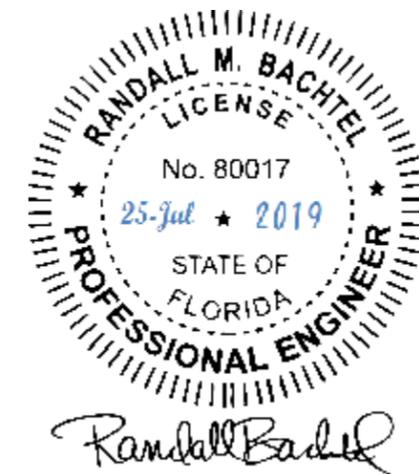
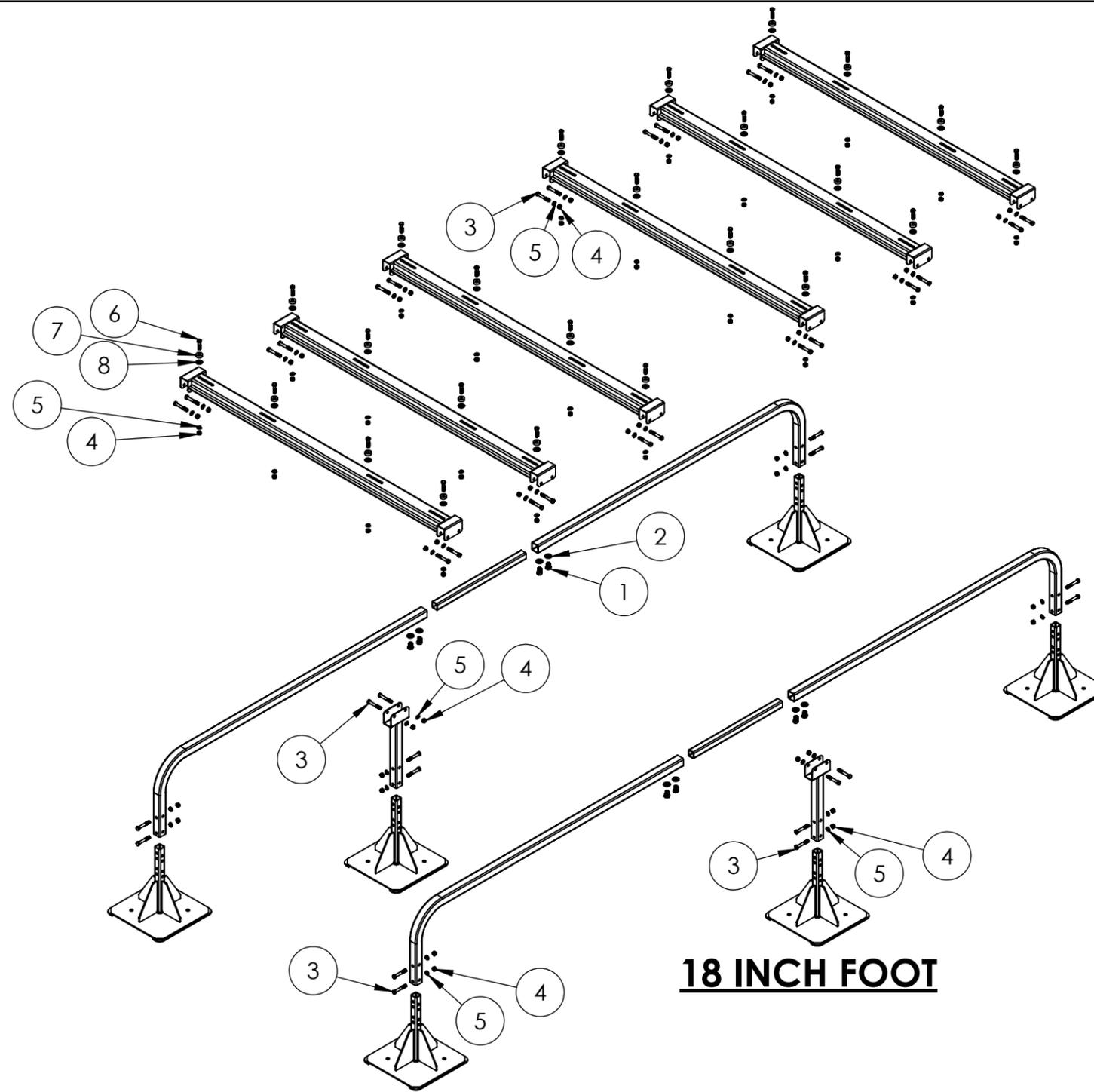
INCHES	[MILLIMETERS]
.X = ±0.1	[ X = ± 2.5 ]
.XX = ±0.01	[ .X = ± 1.3 ]
.XXX = ±0.005	[ .XX = ±0.13 ]

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MATERIAL:	FL-22415.1	WEIGHT	GMS.
DWG. NO.		REV.	R1
DESCRIPTION		SHEET	5 OF 20



CONFIGURATION	HARDWARE KIT	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSMS3001-18	HDKMS07	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER
QSMS3001-18M	HDKMS07	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER

UNLESS OTHERWISE SPECIFIED:  
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 TOLERANCES ARE: ANGLES ±1.0°  
 FRACTIONAL SIZES X/Y ±1/64

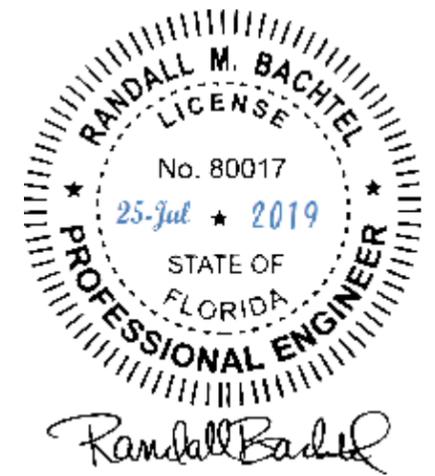
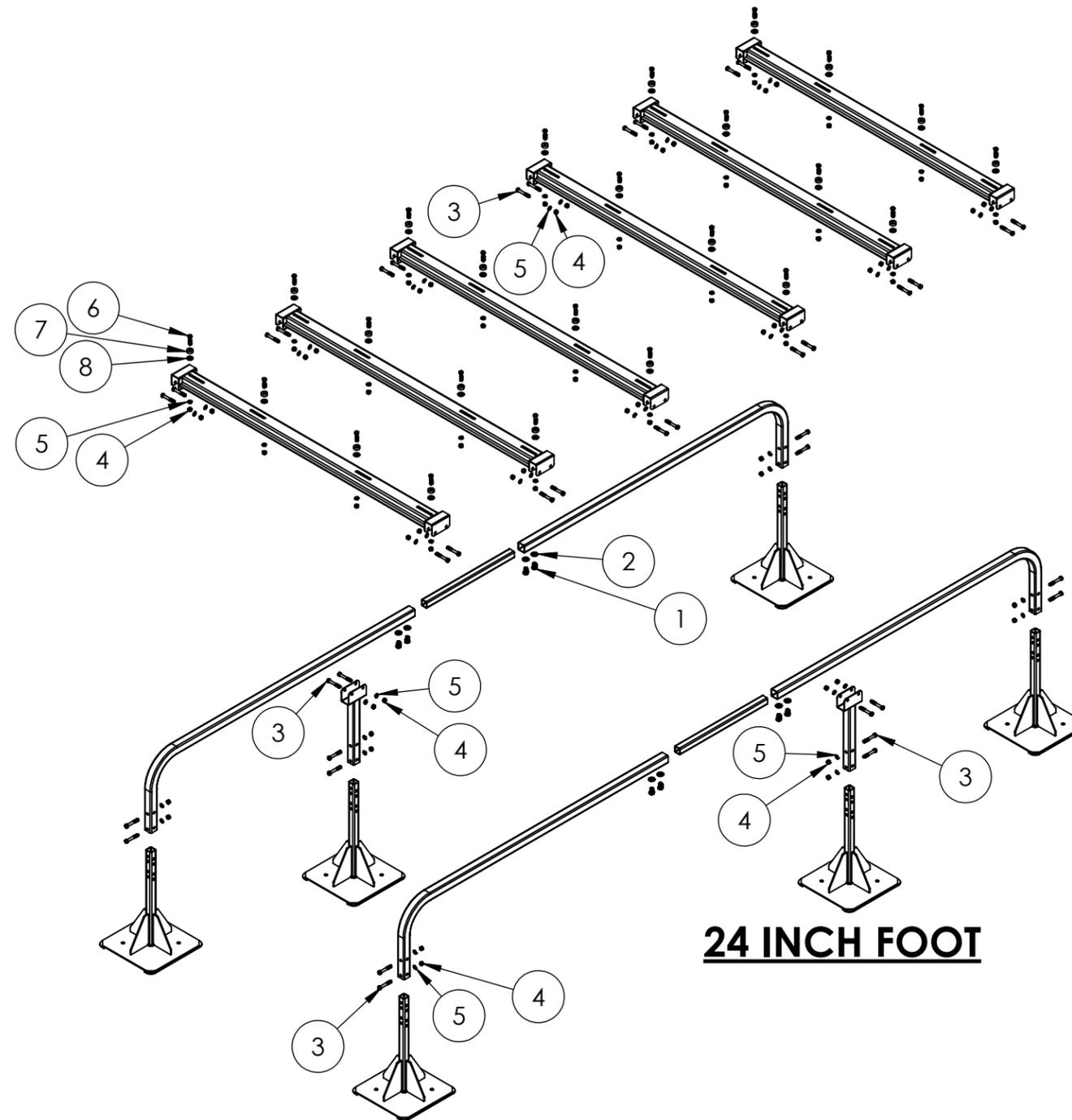
INCHES	[MILLIMETERS]
X = ±0.1	[ X = ± 2.5 ]
.XX = ±0.01	[ .X = ± 1.3 ]
.XXX = ±0.005	[ .XX = ±0.13 ]

THIRD ANGLE PROJECTION



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MATERIAL:	FL-22415.1	WEIGHT	GMS.
DWG. NO.		REV.	R1
DESCRIPTION		SHEET	6 OF 20



CONFIGURATION	HARDWARE KIT	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSMS3001-24	HDKMS07	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER
QSMS3001-24M	HDKMS07	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER

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 TOLERANCES ARE: ANGLES ±1.0°  
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[ X = ± 2.5 ]
.XX = ±0.01	[ .X = ± 1.3 ]
.XXX = ±0.005	[ .XX = ±0.13 ]

THIRD ANGLE PROJECTION



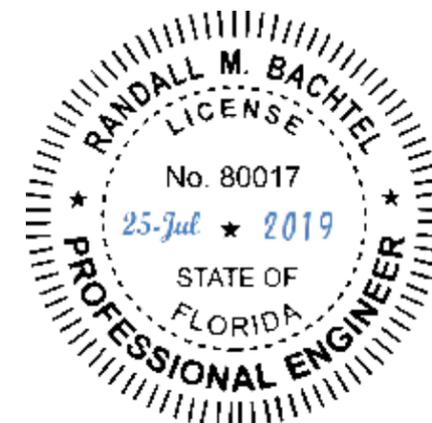
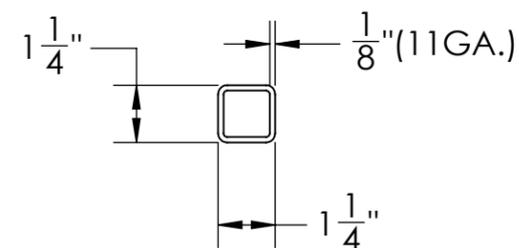
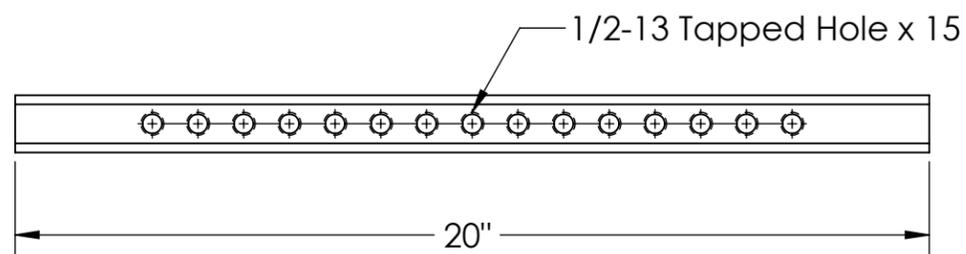
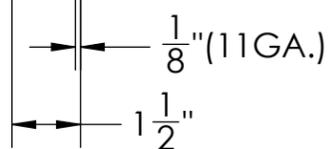
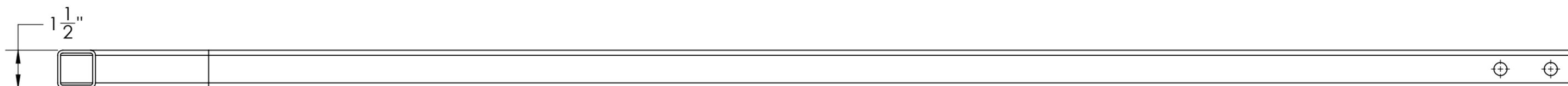
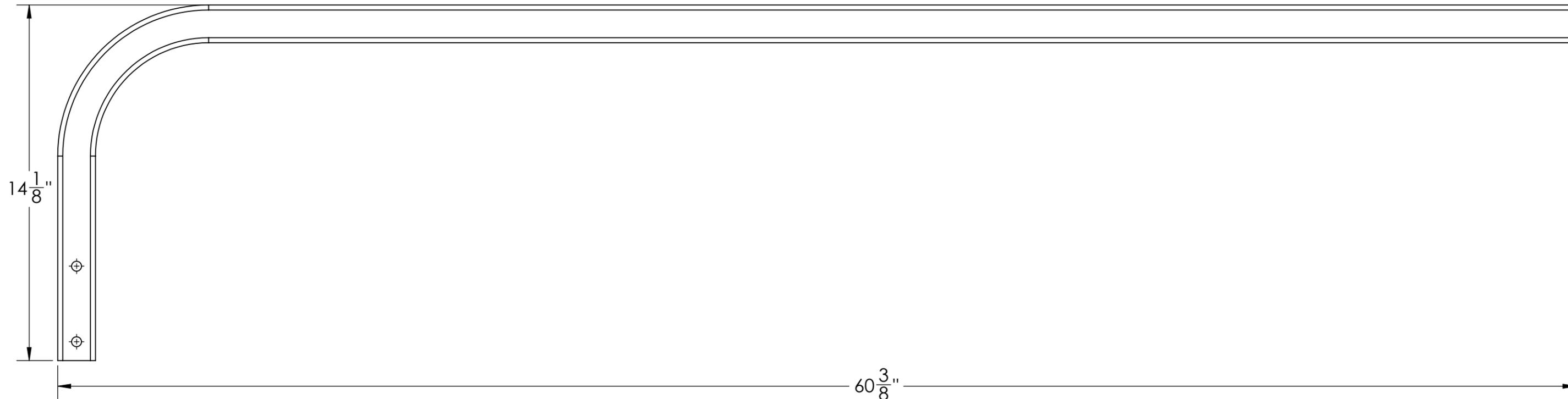
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	<b>FL-22415.1</b>	

4

3

2

1



*Randall Bachtel*

QuickSling SuperStand (QSSB48 / 62 / 74 and its variants) and QuickSling MiniSplit SuperStand (QSMS3001 and its variants) are made from the following structural components:

ASTM A500 Grade B or C 1-1/4" Square Structural Tubing - 11 ga. and 1-1/2" Square Structural Tubing - 11 ga.

ASME SA36 07ga. & 11ga. steel plate either in flat form or bent using a standard press brake.

These are all per: American Institute of Steel Construction, AISC - FBC 2214.3

Material Strength for the components listed above are as follows:

ASME SA36 07ga. & 11ga. & 14ga. steel plate all has a minimum YIELD STRENGTH of 36ksi

ASTM A500 Grade B or C structural steel tubing has a minimum YIELD STRENGTH of 46ksi

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 TOLERANCES ARE: ANGLES ±1.0°  
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
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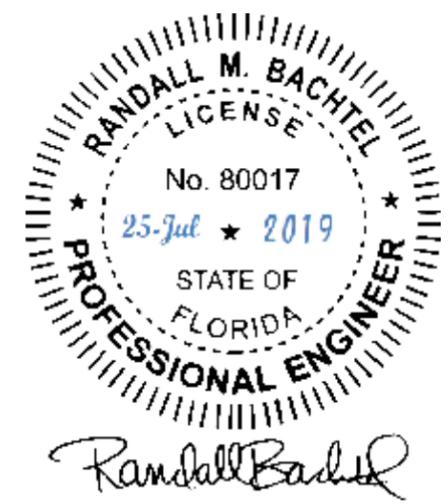
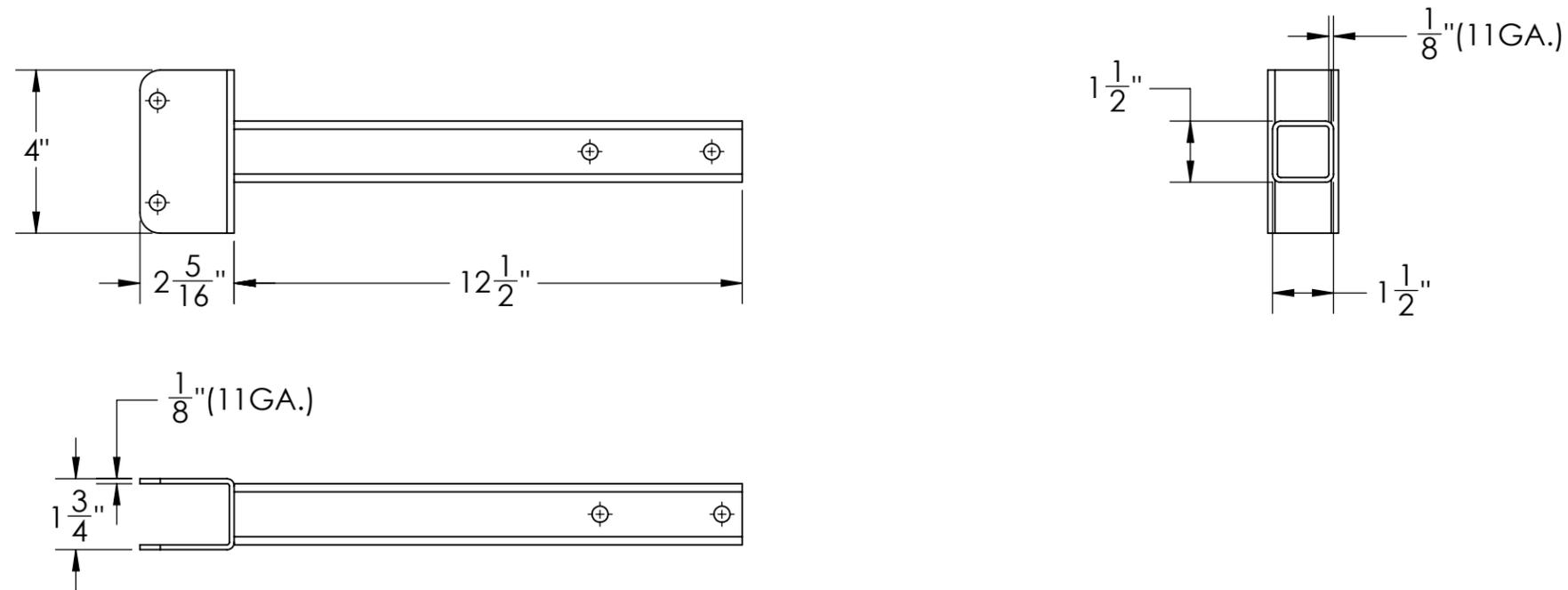
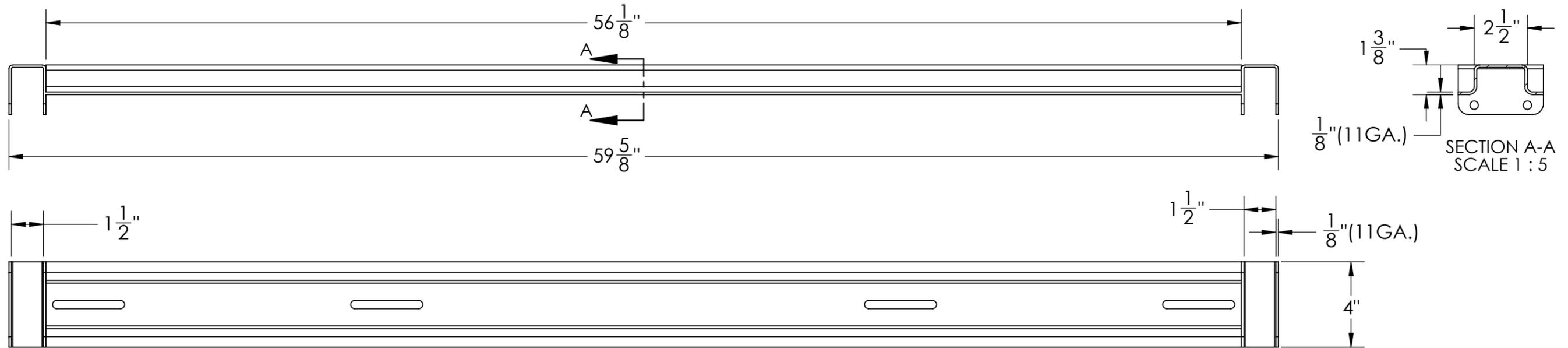
ASSEMBLY:	QSMS3001	WEIGHT
DWG. NO.	FL-22415.1	REV.
		<b>R1</b>
		SHEET
		8 OF 20

4

3

2

1



QuickSling SuperStand (QSSB48 / 62 / 74 and its variants) and QuickSling MiniSplit SuperStand (QSMS3001 and its variants) are made from the following structural components:  
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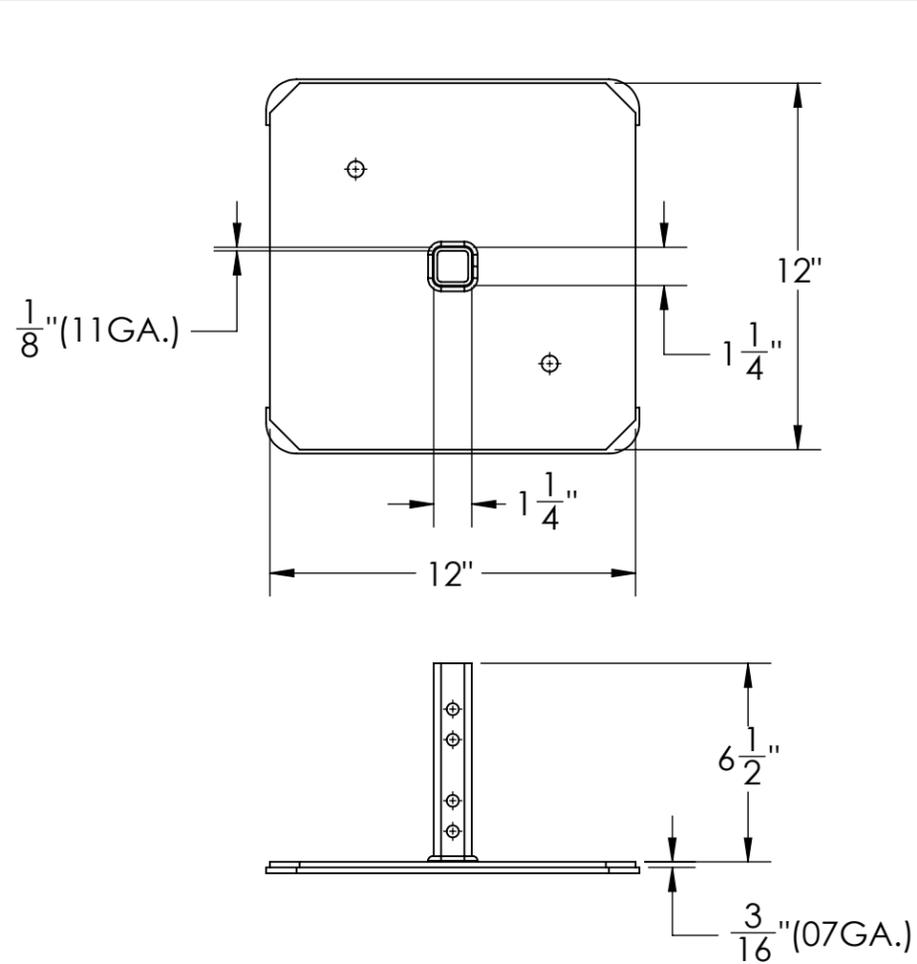
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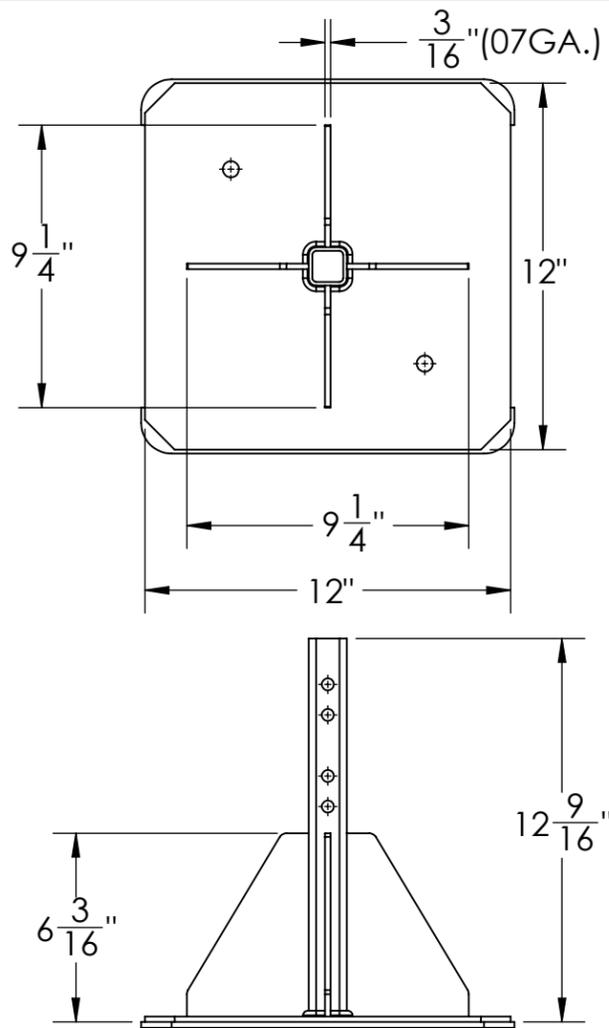
THIRD ANGLE PROJECTION



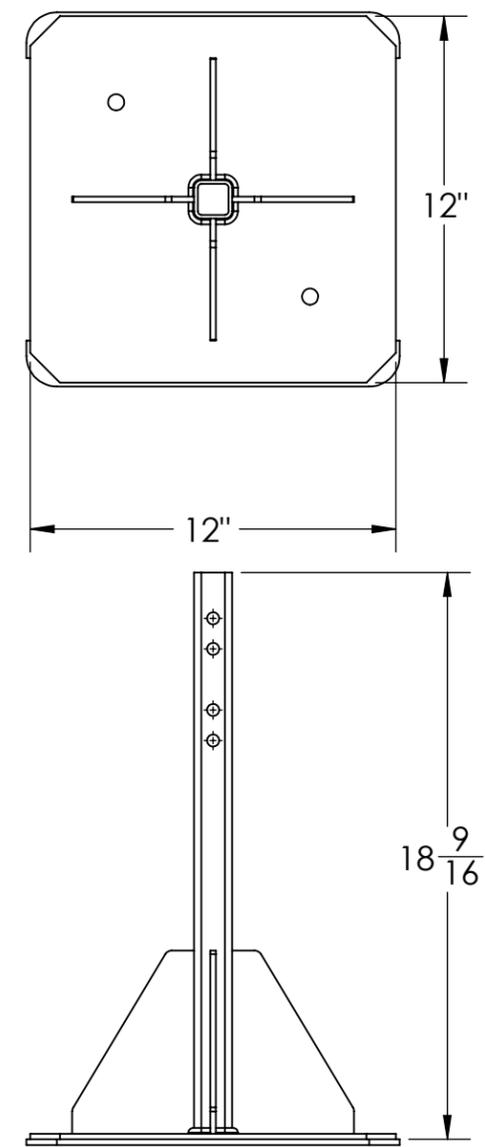
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	DESCRIPTION	



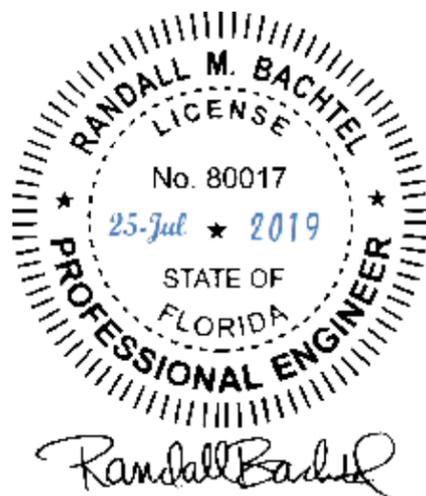
12 IN FOOT



18 IN FOOT



24 IN FOOT



QuickSling SuperStand (QSSB48 / 62 / 74 and its variants) and QuickSling MiniSplit SuperStand (QSMS3001 and its variants) are made from the following structural components:  
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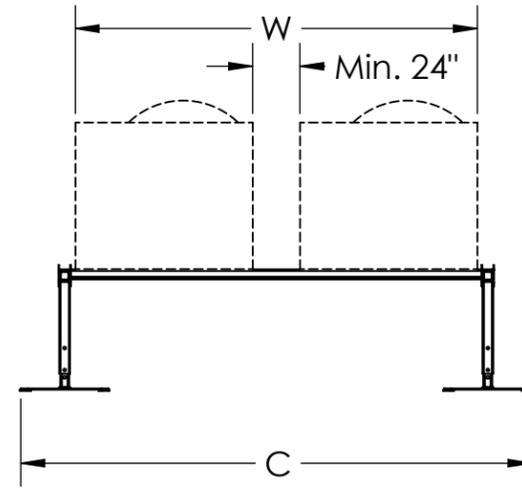
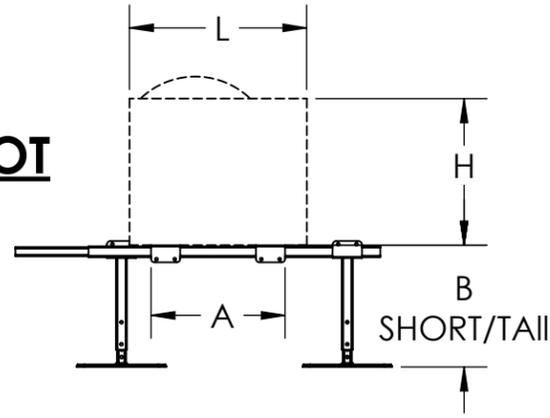
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 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
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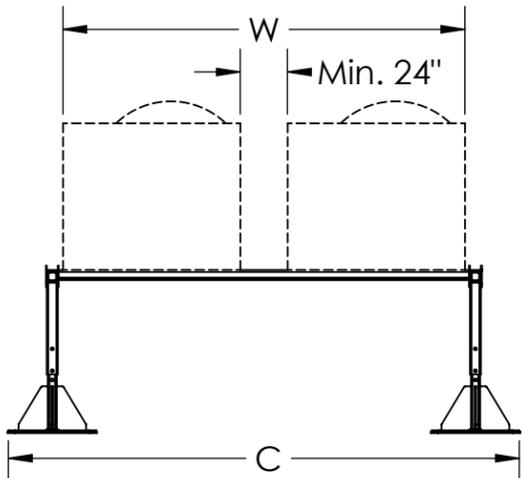
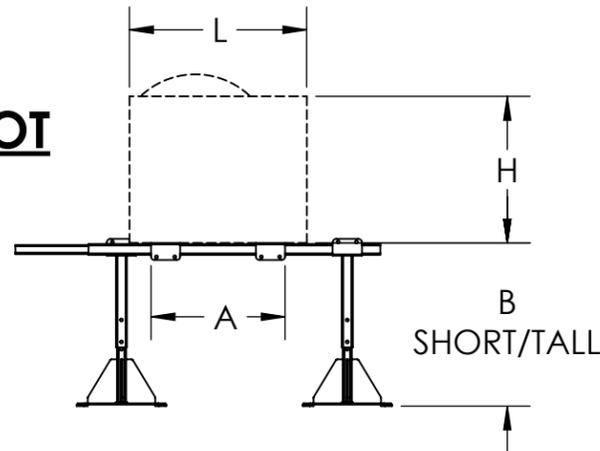


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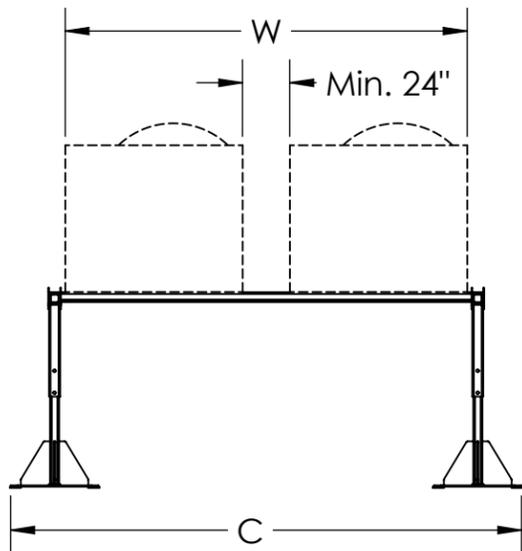
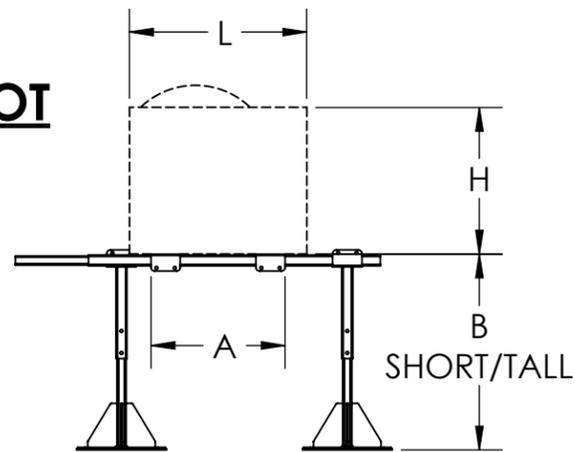
**12 INCH FOOT**



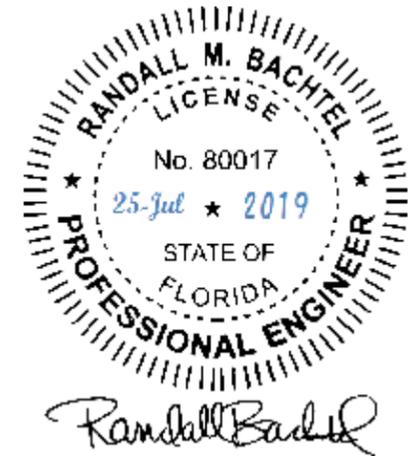
**18 INCH FOOT**



**24 INCH FOOT**



CONFIGURATION	DIMENSION A	DIMENSION B	DIMENSION C
QSMS3001-12EXT SHORT	8"	14.9"	69.9"
QSMS3001-12EXT TALL	39.9"	16.6"	69.9"
QSMS3001-12MEXT SHORT	8"	14.9"	69.9"
QSMS3001-12MEXT TALL	39.9"	16.9"	69.9"
QSMS3001-18EXT SHORT	8"	20.75"	69.9"
QSMS3001-18EXT TALL	39.9"	22.75"	69.9"
QSMS3001-18MEXT SHORT	8"	20.75"	69.9"
QSMS3001-18MEXT TALL	39.9"	22.75"	69.9"
QSMS3001-24EXT SHORT	8"	26.75"	69.9"
QSMS3001-24EXT TALL	39.9"	28.5"	69.9"
QSMS3001-24MEXT SHORT	8"	26.75"	69.9"
QSMS3001-24MEXT TALL	39.9"	28.75"	69.9"



CONFIGURATION	DIMENSION H MAXIMUM	DIMENSION L MAXIMUM	DIMENSION W MAXIMUM
QSMS3001-12EXT	53	42	54
QSMS3001-12MEXT	53	42	54
QSMS3001-18EXT	53	42	54
QSMS3001-18MEXT	53	42	54
QSMS3001-24EXT	53	42	54
QSMS3001-24MEXT	53	42	54

MINIMUM WEIGHT FOR MINISPLIT IS 55 LBS

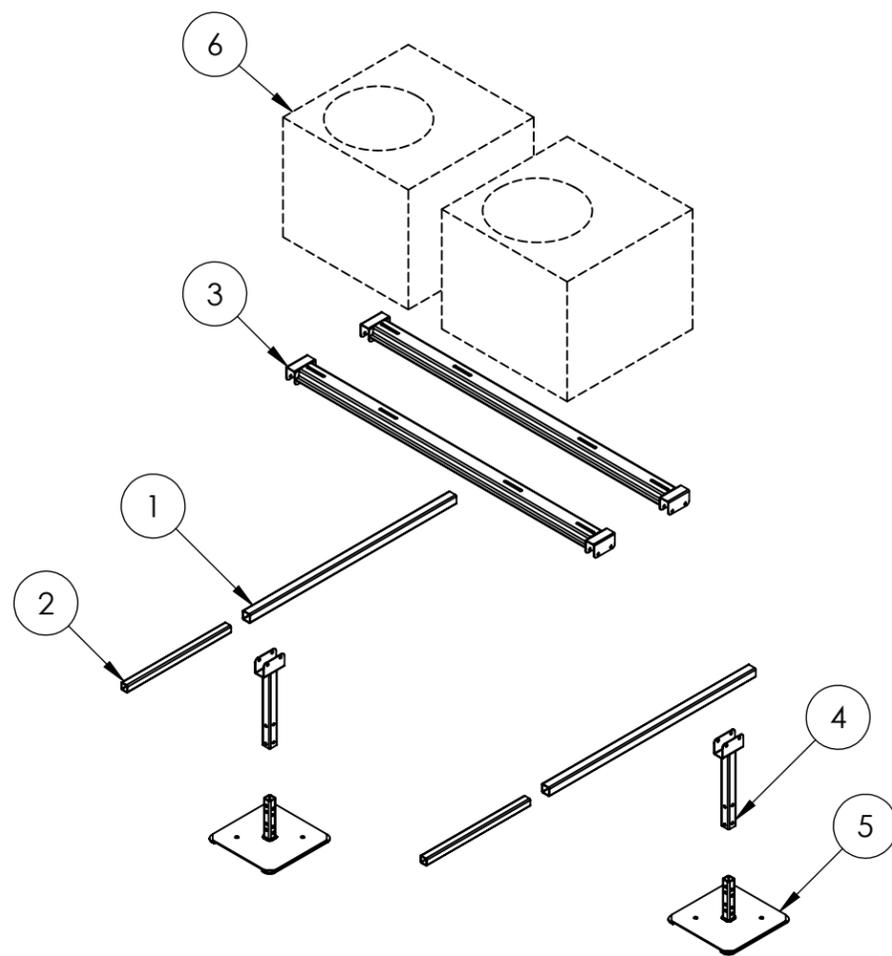
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 TOLERANCES ARE: ANGLES ±1.0°  
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[ X = ± 2.5 ]
.XX = ±0.01	[ .X = ± 1.3 ]
.XXX = ±0.005	[ .XX = ±0.13 ]

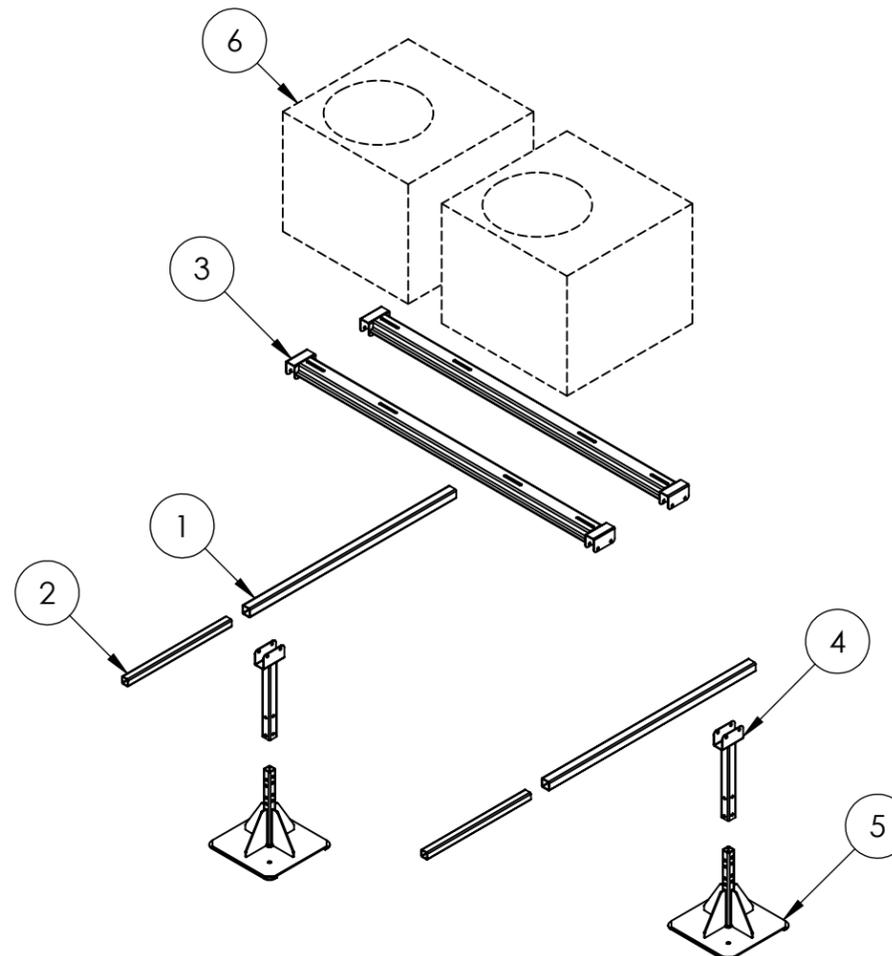
THIRD ANGLE PROJECTION



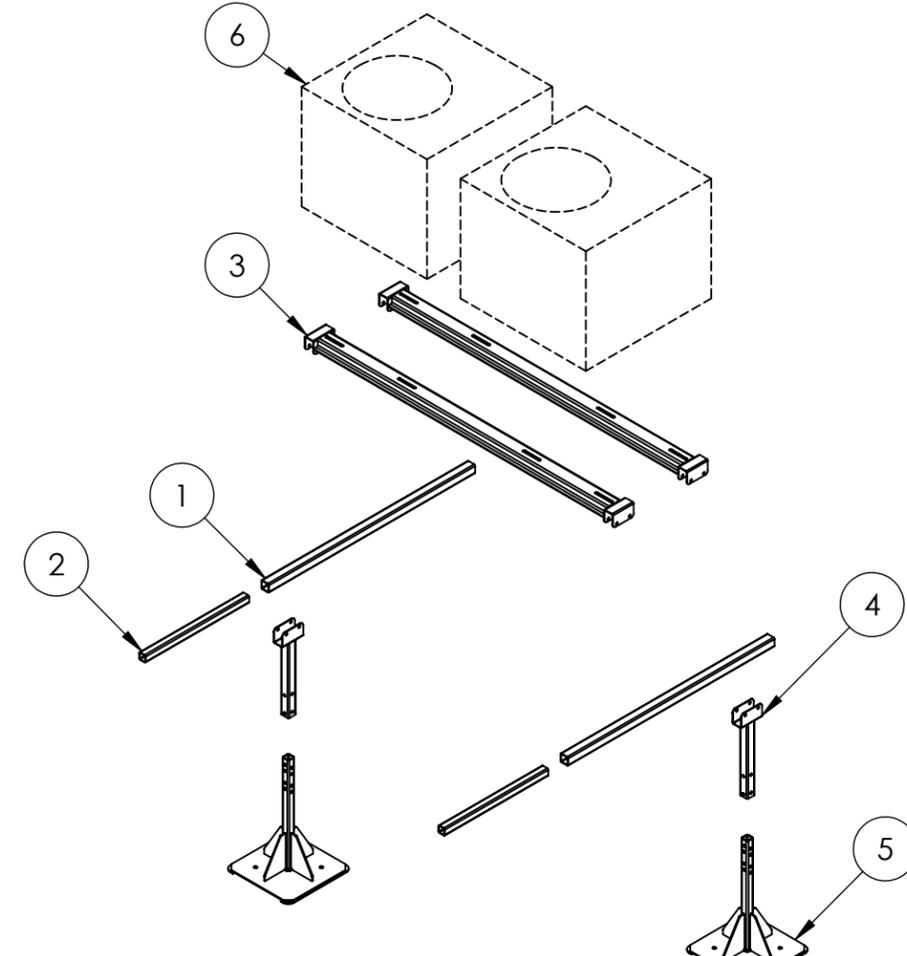
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	DESCRIPTION:	



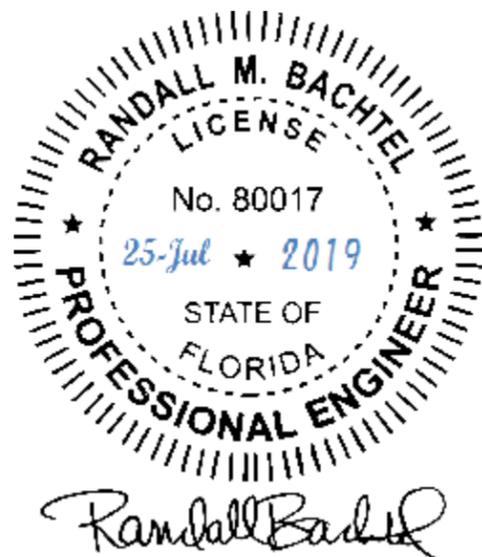
**12 INCH FOOT**



**18 INCH FOOT**



**24 INCH FOOT**



CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6
QSMS3001-12EXT	MNT-A10-03-472	MNT-A10-03-468	MNT-A10-03-471	MNT-A10-03-473	SS102-12	EQUIPMENT PACKAGE
QSMS3001-12MEXT	MNT-A10-03-472M	MNT-A10-03-468M	MNT-A10-03-471M	MNT-A10-03-473M	SS102-12M	EQUIPMENT PACKAGE
QSMS3001-18EXT	MNT-A10-03-472	MNT-A10-03-468	MNT-A10-03-471	MNT-A10-03-473	SS102-18	EQUIPMENT PACKAGE
QSMS3001-18MEXT	MNT-A10-03-472M	MNT-A10-03-468M	MNT-A10-03-471M	MNT-A10-03-473M	SS102-18M	EQUIPMENT PACKAGE
QSMS3001-24EXT	MNT-A10-03-472	MNT-A10-03-468	MNT-A10-03-471	MNT-A10-03-473	SS102-24	EQUIPMENT PACKAGE
QSMS3001-24MEXT	MNT-A10-03-472M	MNT-A10-03-468M	MNT-A10-03-471M	MNT-A10-03-473M	SS102-24M	EQUIPMENT PACKAGE

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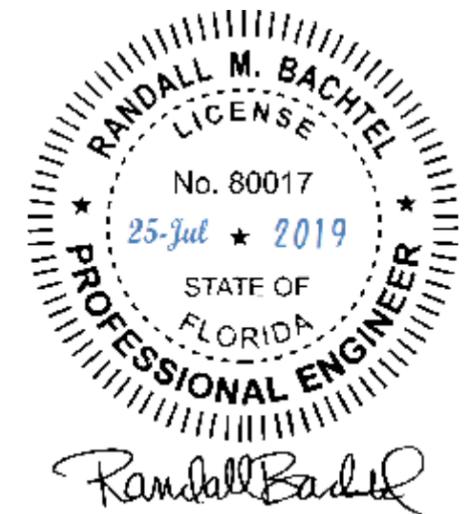
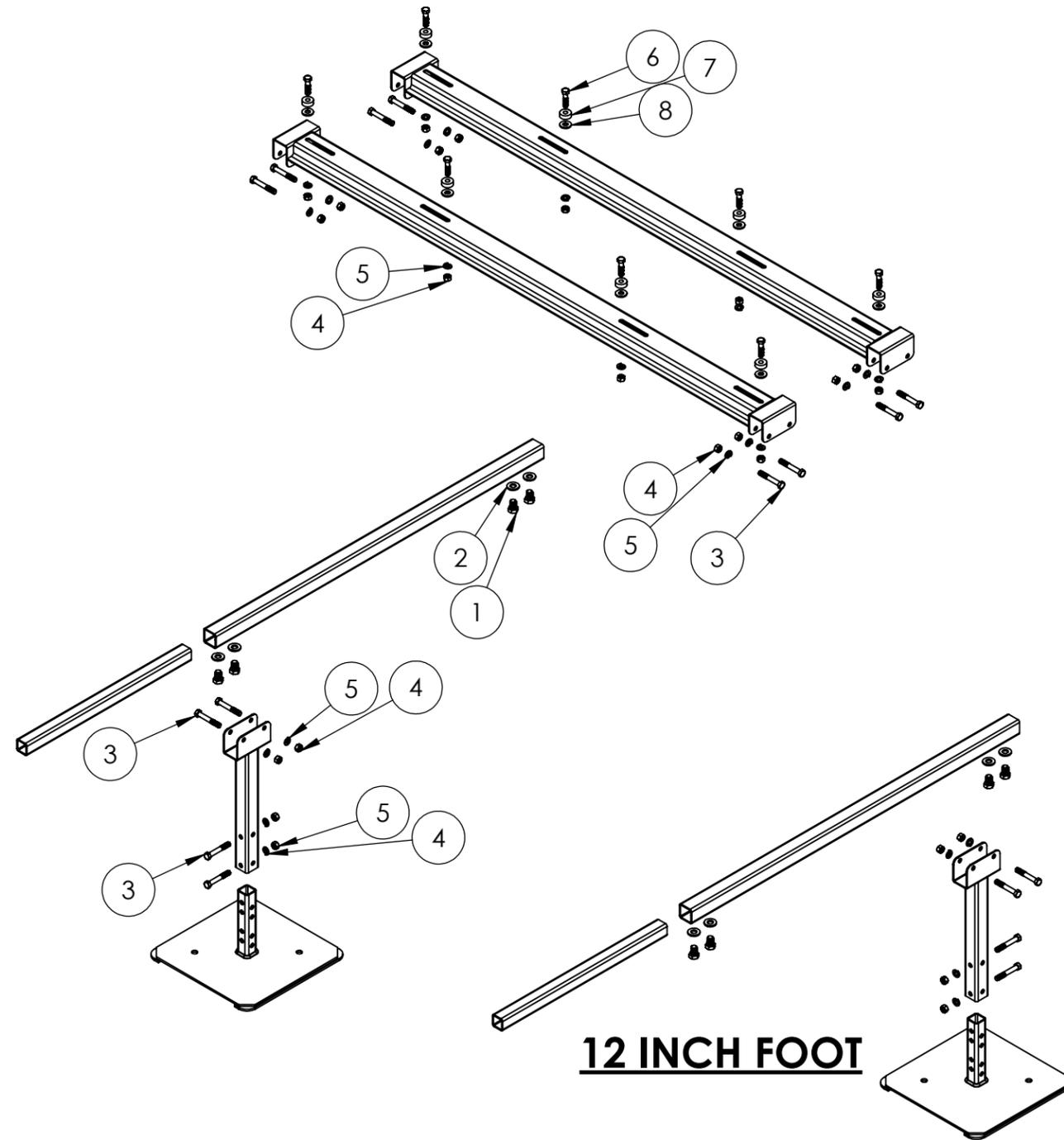
INCHES	[MILLIMETERS]
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.XX = ±0.01	[ .X = ± 1.3 ]
.XXX = ±0.005	[ .XX = ±0.13 ]

THIRD ANGLE PROJECTION



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MATERIAL:	WEIGHT
DWG. NO. <b>FL-22415.1</b>	GMS.
	REV. <b>R1</b>
	SHEET
	<b>12 OF 20</b>



CONFIGURATION	HARDWARE KIT	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSMS3001-12EXT	HDKSS04	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER
QSMS3001-12MEXT	HDKSS04	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER

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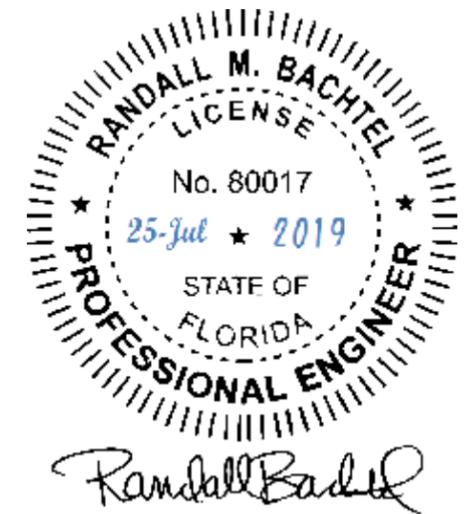
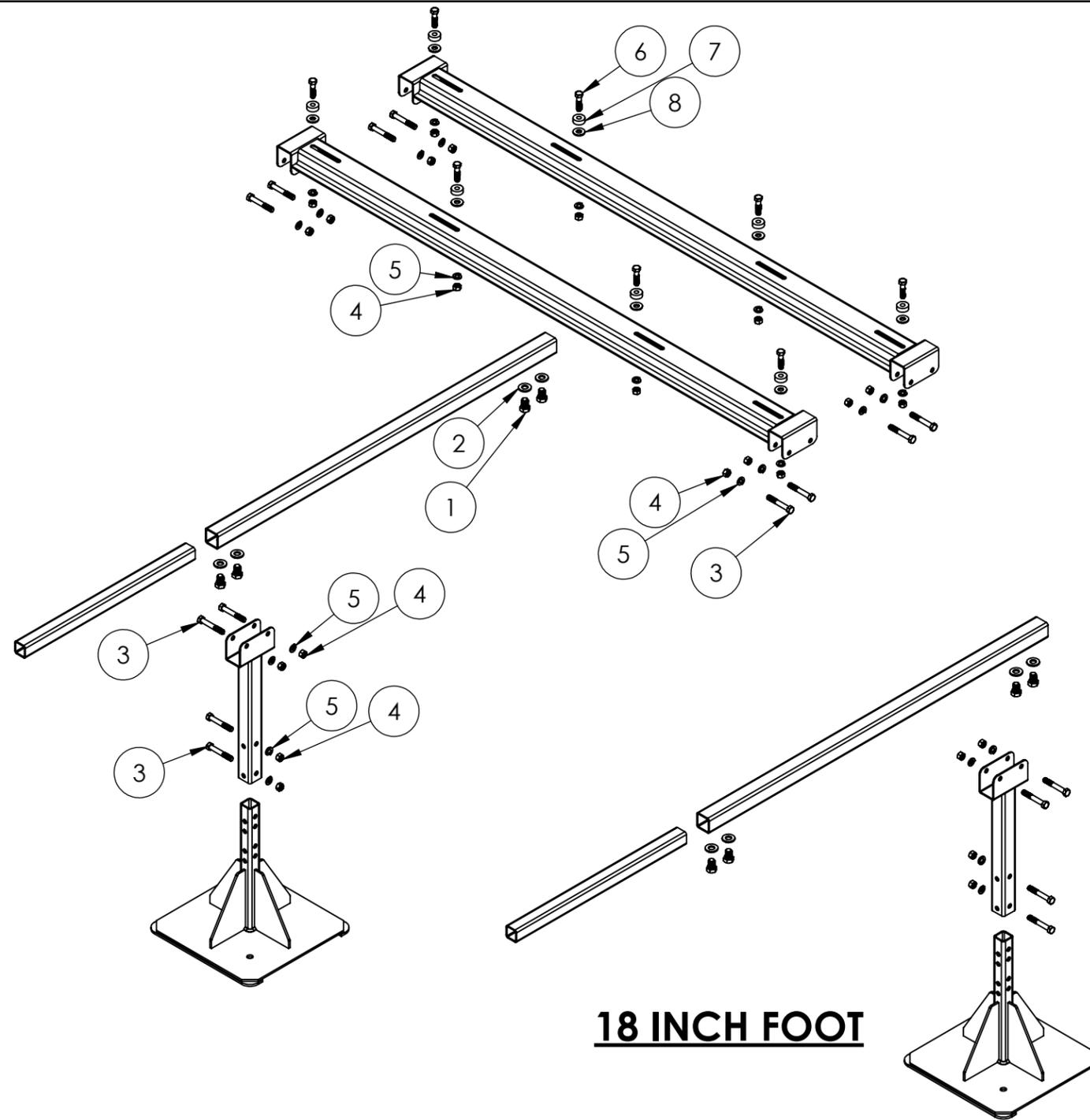
INCHES	[MILLIMETERS]
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.XX = ±0.01	[ .X = ± 1.3 ]
.XXX = ±0.005	[ .XX = ±0.13 ]

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 DO NOT SCALE DRAWING  
 DESCRIPTION

MATERIAL:	WEIGHT
DWG. NO. <b>FL-22415.1</b>	GMS.
	REV. <b>R1</b>
	SHEET
	<b>13 OF 20</b>



CONFIGURATION	HARDWARE KIT	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSMS3001-18EXT	HDKSS04	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER
QSMS3001-18MEXT	HDKSS04	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER

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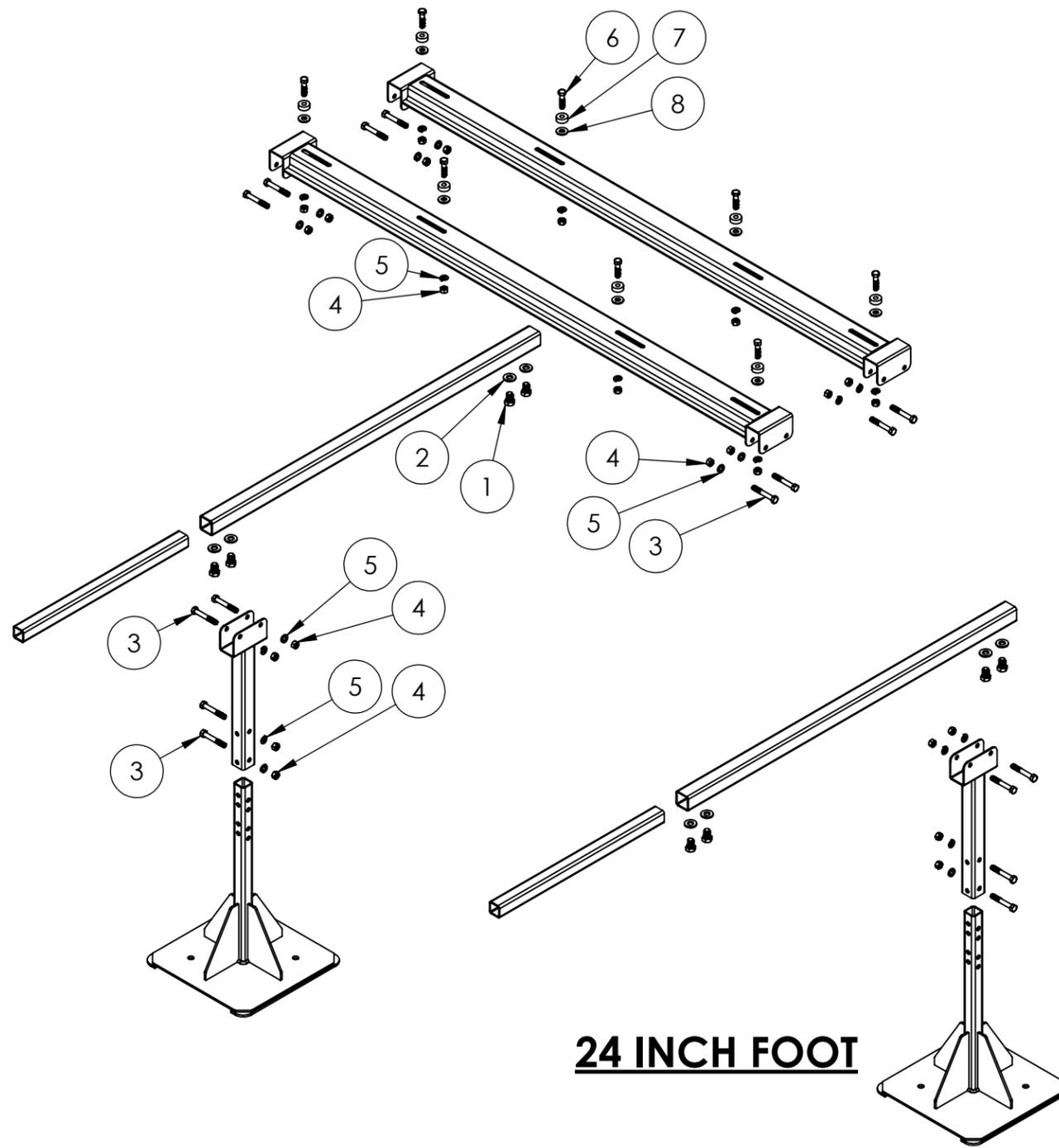
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THIRD ANGLE PROJECTION

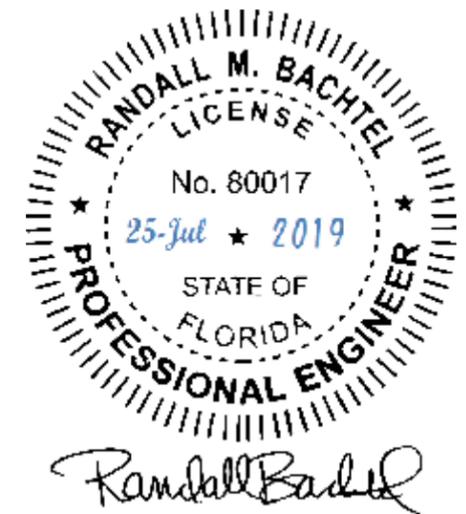


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MATERIAL:	FL-22415.1	WEIGHT	GMS.
DWG. NO.		REV.	R1
DESCRIPTION		SHEET	14 OF 20



**24 INCH FOOT**



CONFIGURATION	HARDWARE KIT	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSMS3001-24EXT	HDKSS04	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER
QSMS3001-24MEXT	HDK2204	1/4-20X1/2 IN ZINC HEX BOLT	1/2 IN ZINC WASHER	3/8-16X2 1/2 IN GALVANIZED BOLT	3/8-16 GALVANIZED HEX NUT	3/8 IN SPLIT WASHER GALV	3/8-16X1 1/2 IN GALVANIZED BOLT	1 X 3/8 X 3/8 IN RUBBER WASHER	3/8 IN BONDED WASHER

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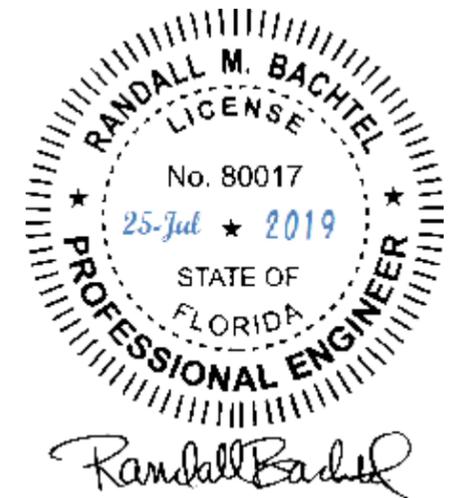
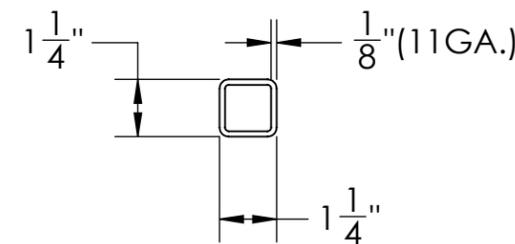
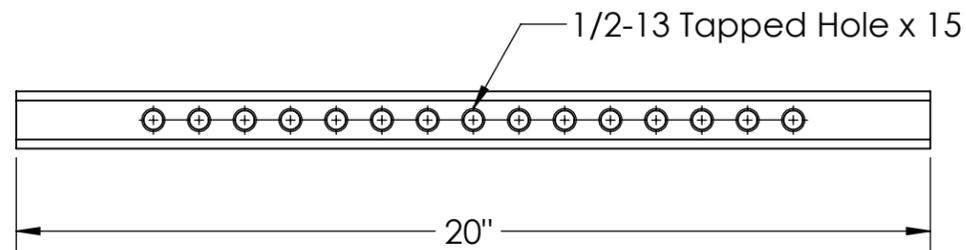
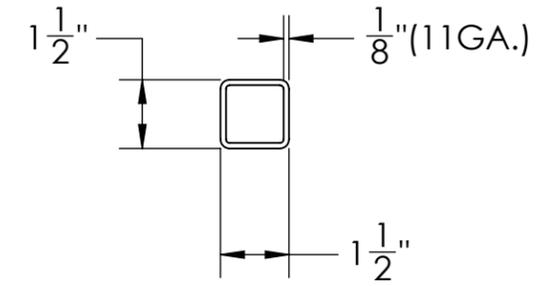
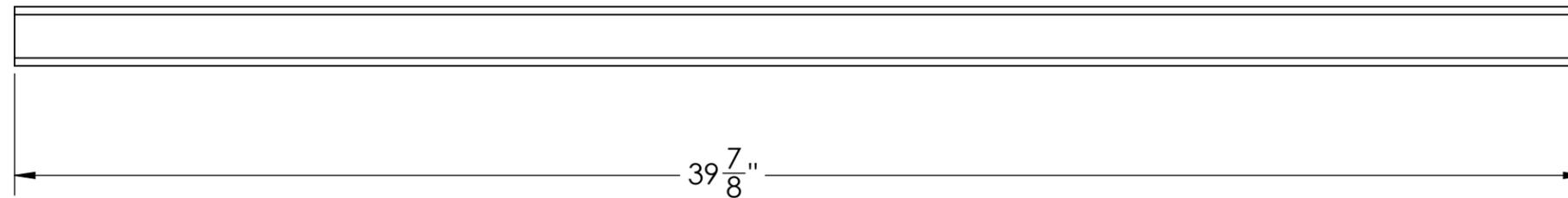
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.XX = ±0.01	[ .X = ± 1.3 ]
.XXX = ±0.005	[ .XX = ±0.13 ]

THIRD ANGLE PROJECTION



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 DESCRIPTION

MATERIAL:	WEIGHT
DWG. NO. <b>FL-22415.1</b>	GMS.
	REV. <b>R1</b>
	SHEET
	<b>15 OF 20</b>



QuickSling SuperStand (QSSB48 / 62 / 74 and its variants) and QuickSling MiniSplit SuperStand (QSMS3001 and its variants) are made from the following structural components:  
 ASTM A500 Grade B or C 1-1/4" Square Structural Tubing - 11 ga. and 1-1/2" Square Structural Tubing - 11 ga.  
 ASME SA36 07ga. & 11ga. steel plate either in flat form or bent using a standard press brake.  
 These are all per: American Institute of Steel Construction, AISC - FBC 2214.3  
 Material Strength for the components listed above are as follows:  
 ASME SA36 07ga. & 11ga. & 14ga. steel plate all has a minimum YIELD STRENGTH of 36ksi  
 ASTM A500 Grade B or C structural steel tubing has a minimum YIELD STRENGTH of 46ksi

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 TOLERANCES ARE: ANGLES ±1.0°  
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[ X = ± 2.5 ]
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DESCRIPTION

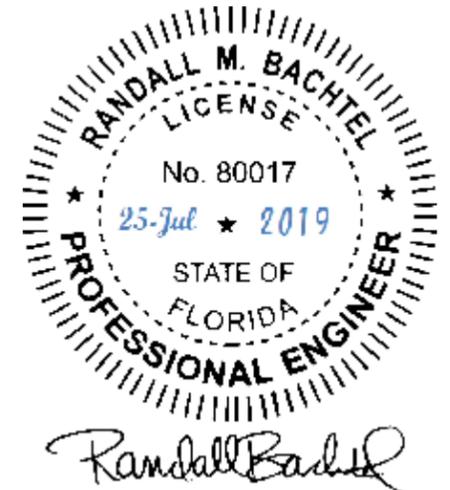
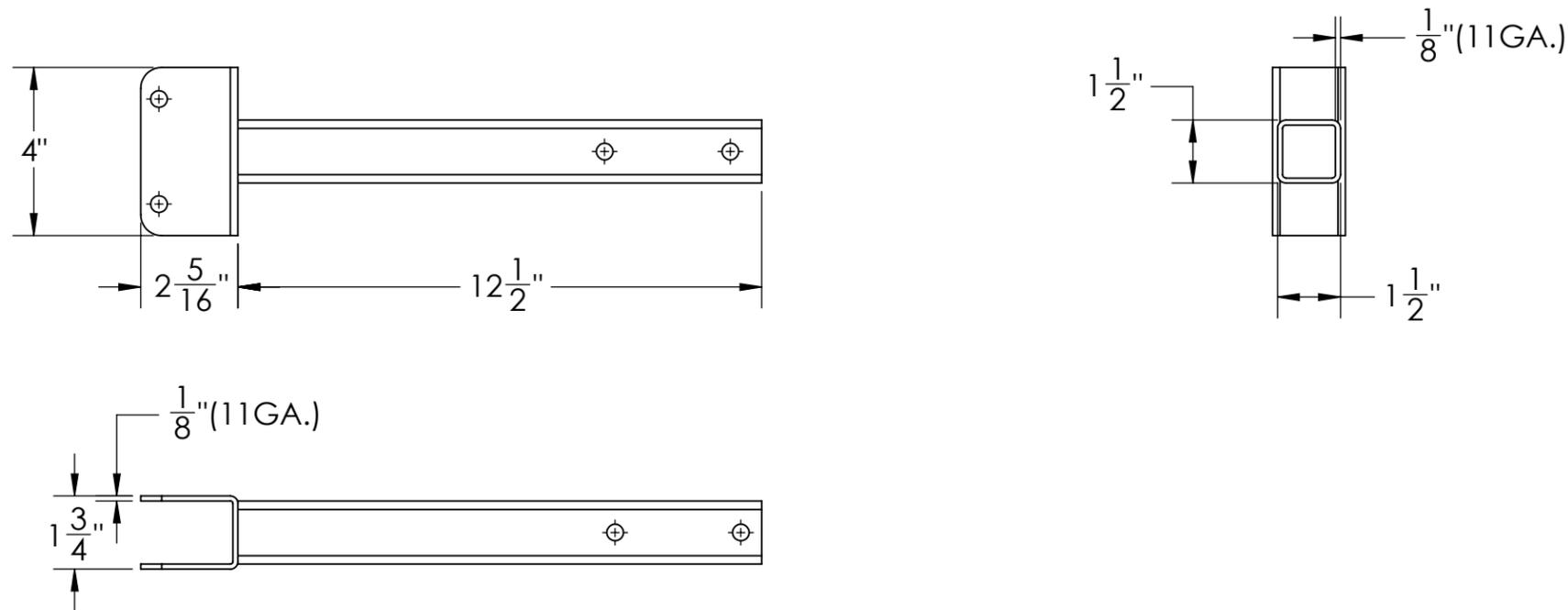
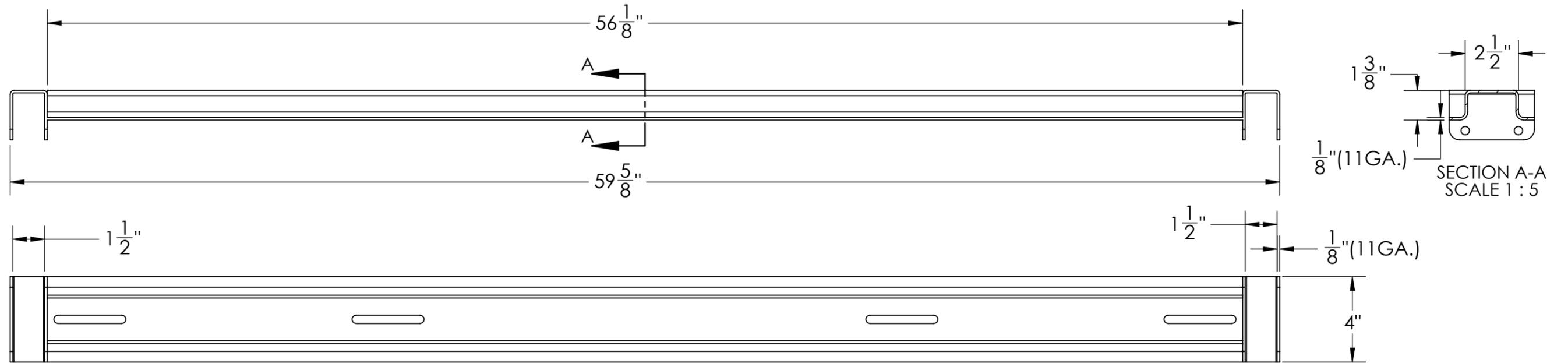
ASSEMBLY: QSMS3001

DWG. NO. FL-22415.1

WEIGHT

REV. R1

SHEET 16 OF 20



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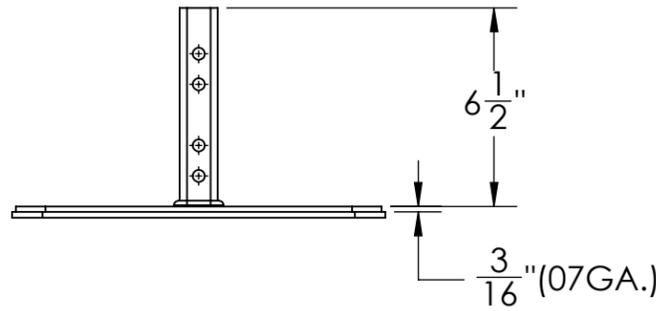
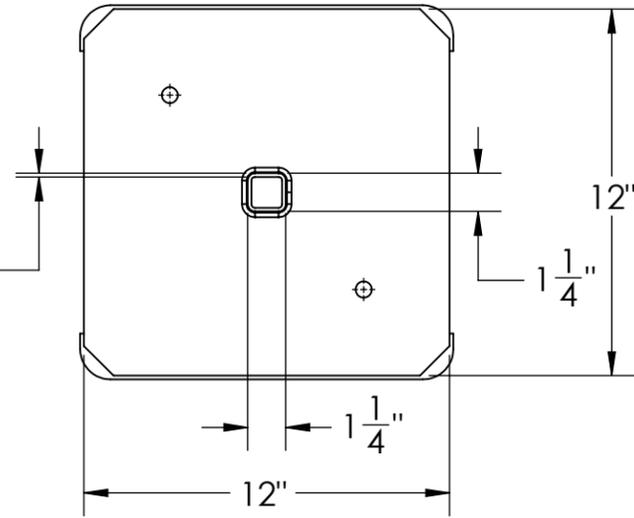
INCHES	[MILLIMETERS]
X = ±0.1	[ X = ± 2.5 ]
.XX = ±0.01	[ .X = ± 1.3 ]
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THIRD ANGLE PROJECTION

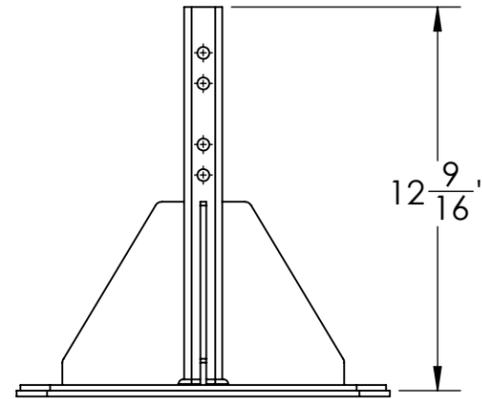
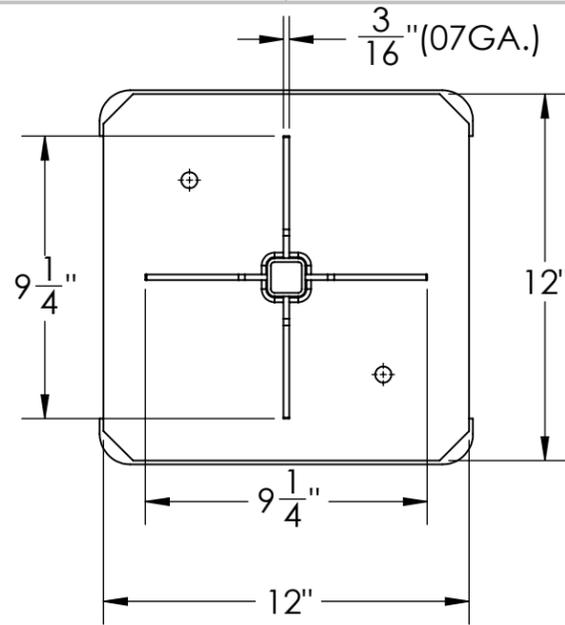


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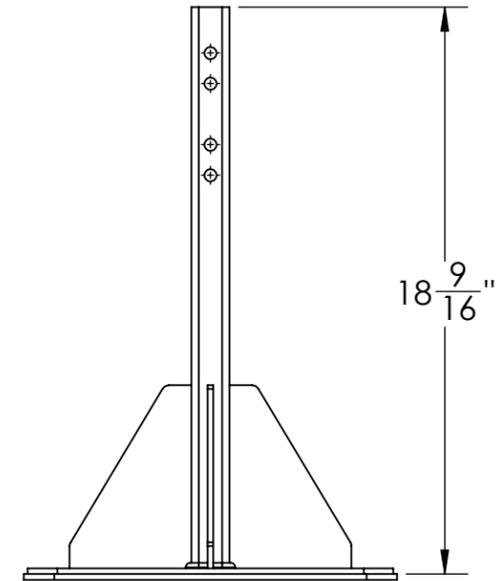
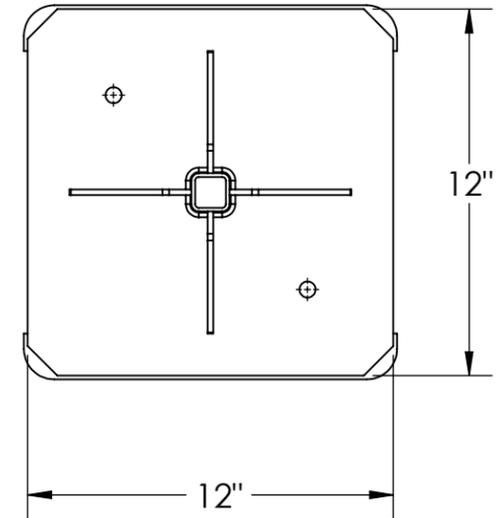
1/8" (11GA.)



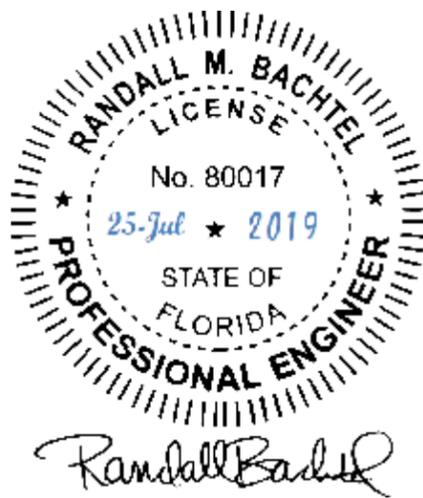
12 IN FOOT



18 IN FOOT



24 IN FOOT



QuickSling SuperStand (QSSB48 / 62 / 74 and its variants) and QuickSling MiniSplit SuperStand (QSMS3001 and its variants) are made from the following structural components:  
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 ASTM A500 Grade B or C structural steel tubing has a minimum YIELD STRENGTH of 46ksi

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THIRD ANGLE PROJECTION



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	18 OF 20	

FBC 1620.6 Rooftop structures and equipment.

The lateral force on rooftop structures and equipment with Af less than(0.1Bh) located on buildings of all heights shall be determined from Equation 29.5-1 of ASCE 7 in which the value of Gcf shall be taken as 3.1. Gcf shall be permitted to be reduced linearly from 3.1 to 1.1 as the value of Af is increased from (0.1Bh) to (Bh). The value of G from Section 26.9 of ASCE 7 shall not be used.

Additionally, a simultaneous uplift force shall be applied, given by Equation 29.5-1 of ASCE 7 in which Gcf = 1.5 and Af is replaced by the horizontal projected area, Ar, of the rooftop structure or equipment.

For the uplift force Gcf shall be permitted to be reduced linearly from 1.5 to 1.0 as the value of Ar is increased from (0.1BL) to (BL).

The DESIGN PRESSURE used for these calculations is determined using a Maximum Wind Speed of 180 MPH.

Using ASCE equation Sec. 27.3.2 / eq. 27.3-1 qz = 0.00256 \* Kz \* Kzt \* Kd \* V^2 = 63.45 psf

where Kz = 0.85, Kzt = 1.00, Kd = 0.90

LATERAL Direction For rooftop structures and equipment with Af less than (0.1Bh). GCr = 3.1

VERTICAL Direction For rooftop structures and equipment with Af less than (0.1Bh). GCr = 1.5

LATERAL FORCE due to Wind Load Only (ASCE 7-10 Equation 29.5-2) Fh = qh(GCr)Af = 196.7 psf, where GCr = 3.1

VERTICAL FORCE (UPLIFT) Wind Load Only (ASCE 7-10 Equation 29.5-3) Fh = qh(GCr)Af = 95.2 psf, where GCr = 1.5

FBC 1522.2 Rooftop mounted equipment

All rooftop equipment and supports shall be secured to the structure in compliance with the loading requirements of Chapter 16 (High-Velocity Hurricane Zones). The use of wood "sleepers" shall not be permitted.

FBC Section 2204 Connections

2204.1 Welding

The details of design, workmanship and technique for welding and qualification of welding personnel shall be in accordance with the specifications listed in Sections 2205, 2206, 2207, 2208, 2210 and 2211 (see Section 2222 for HVHZ) and 2211 (see Section 2222 for HVHZ).

2204.2 Bolting

The design, installation and inspection of bolts shall be in accordance with the requirements of Sections 2205, 2206, 2207, 2210 and 2211.

2204.3 Anchor rods

Anchor rods shall be set in accordance with the approved construction documents. The protrusion of the threaded ends through the connected material shall fully engage the threads of the nuts but shall not be greater than the length of the threads on the bolts.

THE QSMS3001 AND ITS VARIANTS ARE DESIGNED TO SUPPORT GENERAL CONDENSER SYSTEMS IN H.V.H.Z. (180 M.P.H.)

THESE STANDS ARE DESIGNED TO SUPPORT MULTIPLE CONDENSERS EACH. CONDENSER UNITS SUPPORTED CAN VARY BY MODEL, BY SIZE, AND BY WEIGHT.

MAX. WEIGHT OF ANY SPECIFIC CONDENSER EQUIPMENT SUPPORTED ON THIS STAND IS 500 LBS.

EACH OF THESE STANDS REQUIRES 2 CORROSION RESISTANT ANCHOR POINTS PER FOOT INTO THE ROOF OR CURB STRUCTURE.

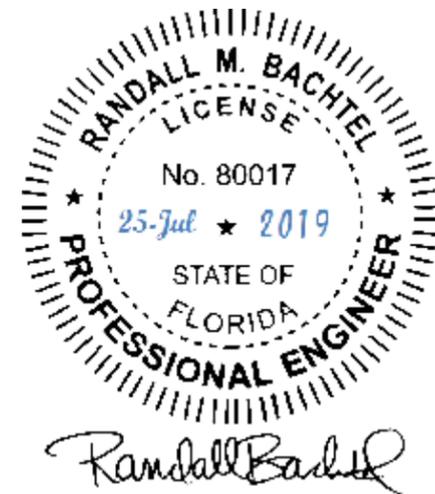
(PER IBC Eq.16-15) EACH OF THESE ANCHOR POINTS MUST HAVE:

- 1. A MINIMUM TENSION RATED CAPACITY OF 1600 lbs.
- 2. A MINIMUM SHEAR RATED CAPACITY OF 400 lbs.

MAXIMUM DOWNWARD FOOT REACTION (PER FOOT) ON SUPPORTING ROOF OR CURB IS 300 LBS. OR LESS (IBC Eq. 16-12)

H OR HT OR HMD HURRICANE PADS FROM DIVERSITECH CAN BE USED AS A CURB STRUCTURE TO AVOID ROOF PENETRATION.

A REGISTERED PROFESSIONAL ENGINEER MUST PROVIDE ALL THE SUPPORTING CALCULATIONS FOR THIS FORM OF STAND SUPPORT.



For f'c > 3000 psi (20.7 MPa) Concrete – Cracked & Uncracked – 100' BLDG – Risk Cat. II – Exposure C		
Anchor Size (Select Any Below)	Minimum Embedment	Minimum Edge Distance
3/8" Titen HD anchors	3 – 3/4"	4 – 1/2"
3/8" Strong-Tie Strong Bolt	2"	6"
3/8" Hilti KWIK Bolt TZ	2 – 5/16"	4"
3/8" Heavy Duty Tapcon	2 – 1/2"	4"
5/16" Heavy Duty Tapcon	1 – 3/4"	4"

Wood, G = 0.42 Min., Cd = 1.6 – 15' BLDG – Risk Cat. II – Exposure C			
Anchor Size	Minimum Embedment	Minimum Edge Distance	Minimum End Distance
3/8" LAG Screw	2 – 1/2"	5/8" into side grain	1 – 1/2"

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES [MILLIMETERS]  
 TOLERANCES ARE: ANGLES ±1.0°  
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[X = ±2.5 ]
.XX = ±0.01	[.X = ±1.3 ]
.XXX = ±0.005	[.XX = ±0.13 ]



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ASSEMBLY: QSMS3001  
 DWG. NO. FL-22415.1

WEIGHT  
 REV. **R1**  
 SHEET

FBC TAS 114 App. E / G-90 Corrosion Testing  
 TESTING APPLICATION STANDARD (TAS) 114-95 - APPENDIX E  
 TEST PROCEDURE FOR CORROSION RESISTANCE OF FASTENERS, BATTEN BARS AND STRESS DISTRIBUTION PLATES

1.0 Scope:

1.1 The corrosion test procedure is designed to assess the potential damage to nails, metal fasteners, batten bars and stress distribution plates used for mechanically attached roof covers and/or attachment of insulation. There is no single test procedure that approximates all climactic conditions experienced by roofing components; however, tests are available that provide an indication of potential resistance to corrosion.

1.2 All nails and carbon steel fasteners shall be tested for corrosion resistance in compliance with ASTM Standard Practice G85 [(Modified Salt Spray (Fog) Testing)], Annex A5 (Dolute Electrolyte Cyclic Fog/Dry Testing) as modified for the Florida Building Code, Building and noted in Section 2, herein.

1.3 All batten bars, stress distribution plates, and other metal fastener types shall be tested for corrosion resistance in compliance with DIN 50018 as noted in Section 3, herein.

The following Testing was completed by DiversiTech / Bells Powder Coating - March/April 2018

ASTM B117: Neutral Salt Spray

ASTM D7091: Film Thickness

ASTM D3359: Adhesion

Physical Testing Laboratory Report



Project Number:	188,819	Customer:	Bells Powder Coating	TSM:	B. Ward
Date Received:	23 March 2018	Location:	North Attleboro, MA	RSM:	D. Elvin
Report Date:	20 April 2018	Customer ID:	70601	P.O. Number:	

ASTM B117: Neutral Salt Spray

504 Hours										
Start Date:	29 March 2018				Completion Date:	19 April 2018				
Sample ID	Minimum (mm's)	Maximum (mm's)	Arithmetic Mean	ASTM D610/D714: Rust/Blister Field Rating	ASTM D7091: Film Thickness (mil's)					
1	0.0	2.6	0.3	9	10/10	2.6-3.4	5B			
2	0.0	2.9	0.2	9	9P/10	2.0-2.5	5B			
3	0.0	6.8	2.1	6	9P/10	1.7-2.1	5B			

Physical Testing Laboratory Report



Project Number:	188,819	Customer:	Bells Powder Coating	TSM:	B. Ward
Date Received:	23 March 2018	Location:	North Attleboro, MA	RSM:	D. Elvin
Report Date:	20 April 2018	Customer ID:	70601	P.O. Number:	

Field Rating Key-Blister and Rust Ratings									
Blister Density				Rust Ratings					
Rating Letter	Rating	Rating Number	Rating	Rust Grade	Percent of Surface Rusted (Ranges)	Visual Examples			Rust Grade
n/a	None	0	None	10	≤ 0.01%	Spot	General	Pinpoint	Ri 0
F	Few	2	Few	9	>0.01% to 0.03%	9S	9G	9P	Ri 1
M	Medium	3	Moderate	8	>0.03% to 0.1%	8S	8G	8P	Ri 2
MD	Medium Dense	4	Considerable	7	>0.1% to 0.3%	7S	7G	7P	Ri 2
D	Dense	5	Dense	6	>0.3% to 1.0%	6S	6G	6P	Ri 3
Blister Size				5	>1.0% to 3.0%	5S	5G	5P	Ri 4
ASTM D714 ISO 4628-2				4	>3.0% to 10.0%	4S	4G	4P	Ri 4
Rating Number				3	>10.0% to 16.0%	3S	3G	3P	Ri 5
10	0	No Blistering	0 mm	2	>16.0% to 33.0%	2S	2G	2P	
n/a	S1	Requires Magnification	1	1	>33.0% to 50.0%	1S	1G	1P	Ri 5
8	S2	Pinpoint	0-1 mm	0	> 50.0%	0	0	0	
6	S3	Small	1-2 mm	Note: Key serves only as a reference. When evaluating for blistering and rusting, samples must be compared to the photograph standards provided by each method.					
4	S4	Medium	2-3 mm						
2	S5	Large	3-5 mm						
0	S5	Very Large	>5mm						

Physical Testing Laboratory Report



Project Number:	188,819	Customer:	Bells Powder Coating	TSM:	B. Ward
Date Received:	23 March 2018	Location:	North Attleboro, MA	RSM:	D. Elvin
Report Date:	20 April 2018	Customer ID:	70601	P.O. Number:	

Scribe Rating Key			
ASTM D1654	ISO 4628-8	Representative Creepage From Scribe "One-sided"	
Mean Rating Number	Corrosion Grade	Millimeters	Inches
10	0-None	0	0
9	1-Very Slight	Over 0 to 0.5	Over 0 to 1/64
8	2-Moderate	Over 0.5 to 1.0	Over 1/64 to 1/32
7	3-Moderate	Over 1.0 to 2.0	Over 1/32 to 1/16
6	4-Considerable	Over 2.0 to 3.0	Over 1/16 to 1/8
5	5-Severe	Over 3.0 to 5.0	Over 1/8 to 3/16
4	>5	Over 5.0 to 7.0	Over 3/16 to 1/4
3		Over 7.0 to 10.0	Over 1/4 to 3/8
2		Over 10.0 to 13.0	Over 3/8 to 1/2
1		Over 13.0 to 16.0	Over 1/2 to 5/8
0		Greater Than 16.0	Greater Than 5/8
S	Spot Creepage	Isolated Creepage that Encompasses Less Than 25% of The Scribe	

Each of the Physical Members belonging to the Quick Sling Stands are powder coated and tested to the SALT SPRAY - SPECIFICATION ABOVE.  
 All hardware provided with QuickSling Stands are Hot Dip Galvanized (HDP) and are considered to be corrosion resistant.  
 Any additional hardware that is supplied by the customer or OEM must be STAINLESS STEEL or Hot Dip Galvanized (HDP) to meet the corrosion resistance requirements.  
 This includes any hardware used to anchor the QuickSling Stand to the roof as well as hardware used to mount the equipment to the QuickSling Stand.

FBC 1522.3

Machinery, piping, conduit, ductwork, signs and similar equipment may be mounted on roofs in compliance with the following:

TABLE 1522.3

ROOF MOUNTED EQUIPMENT HEIGHT REQUIREMENTS

WIDTH OF EQUIPMENT (in.) HEIGHT OF LEGS (in.)

Up to 24	14
25 to 36	18
37 to 48	24
49 to 60	30
61 and wider	48

1522.3.1

Permanently mounted rooftop equipment shall be installed to provide clearances, in accordance with Table 1522.3, to permit repairs, replacement and/or maintenance of the roofing system or any of its components.

1522.3.2

When reroofing, recovering, performing repair or roof maintenance, and where the roof top equipment is moved to properly execute such work, the minimum clearances of the said equipment support shall be in accordance with Table 1522.3.

1522.3.3

In buildings where the existing rooftop equipment, in the opinion of the building official, provides sufficient clearance to repair, recover, replace and/or maintain the roofing system or any of its components, such existing equipment need not comply with Table 1522.3.

The maximum WIDTH of any equipment mounted to a QuickSling MiniSplit SuperStand (QSMS3001 and its variants) as part of FL 22415-1 submittal is 36.0 inches.

The requirement for this condition is to have legs that are 18" tall. Both an 18" and 24" tall (leg height) version is a standard height that is available on all of these stand variants.

UNLESS OTHERWISE SPECIFIED:	
DIMENSIONS ARE IN INCHES [MILLIMETERS]	
TOLERANCES ARE: ANGLES ±1.0°	
FRACTIONAL SIZES X/Y ±1/64	
INCHES	[MILLIMETERS]
.X = ±0.1	[ X = ± 2.5 ]
.XX = ±0.01	[ .X = ± 1.3 ]
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ASSEMBLY:	QSMS3001	WEIGHT	
DWG. NO.	FL-22415.1	REV.	R1
DESCRIPTION		SHEET	20 OF 20



Randall Bachtel