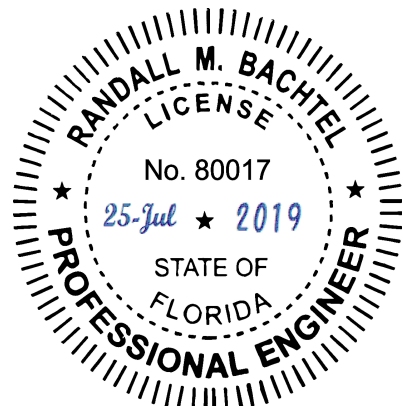
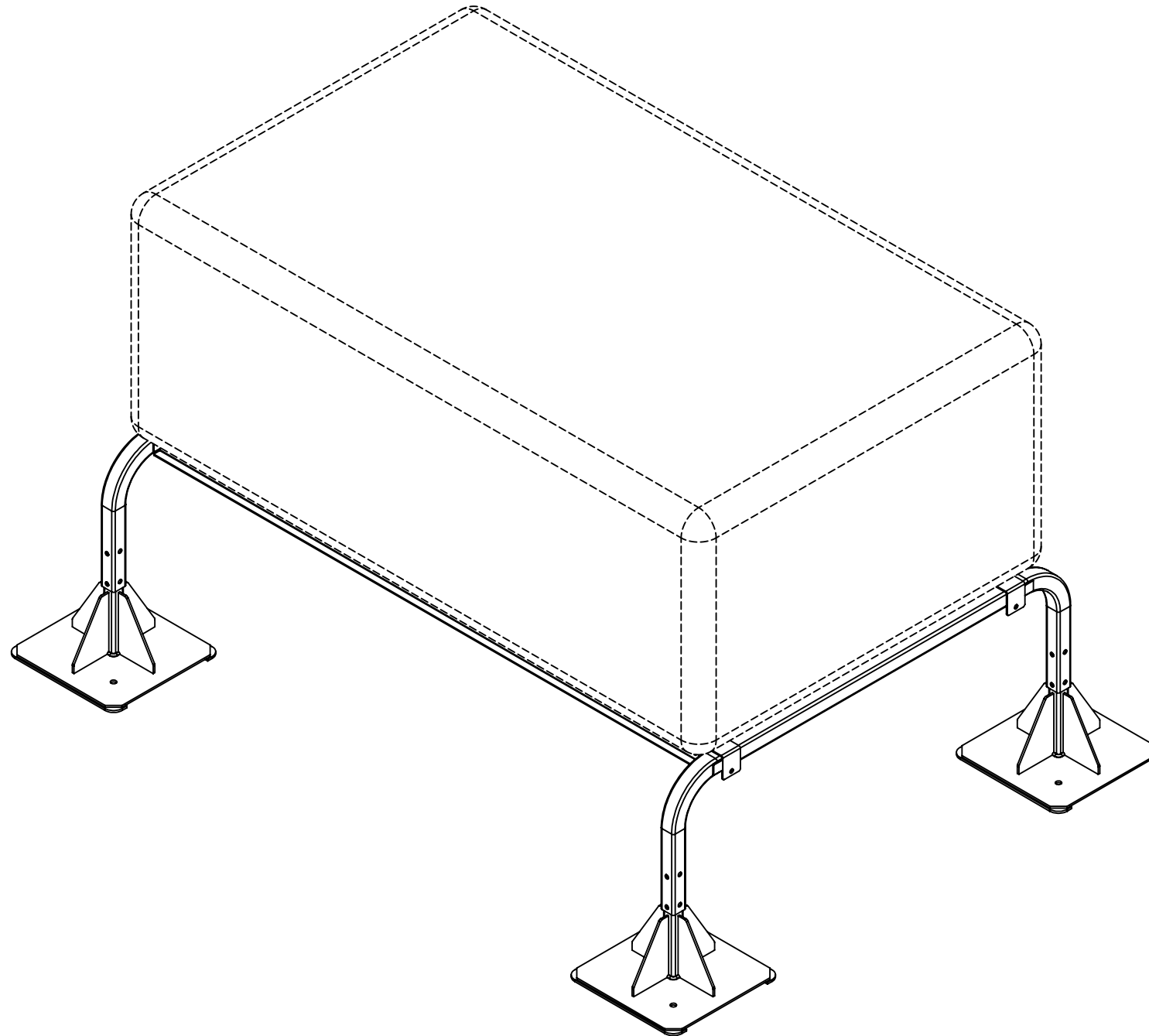


DIVERSITECH

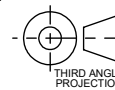
QUICK SLING SUPERSTANDS



Randall Bachtel

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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	DWG. NO. FL-22415.2	REV. R1
DESCRIPTION	SHEET 1 OF 21	

4

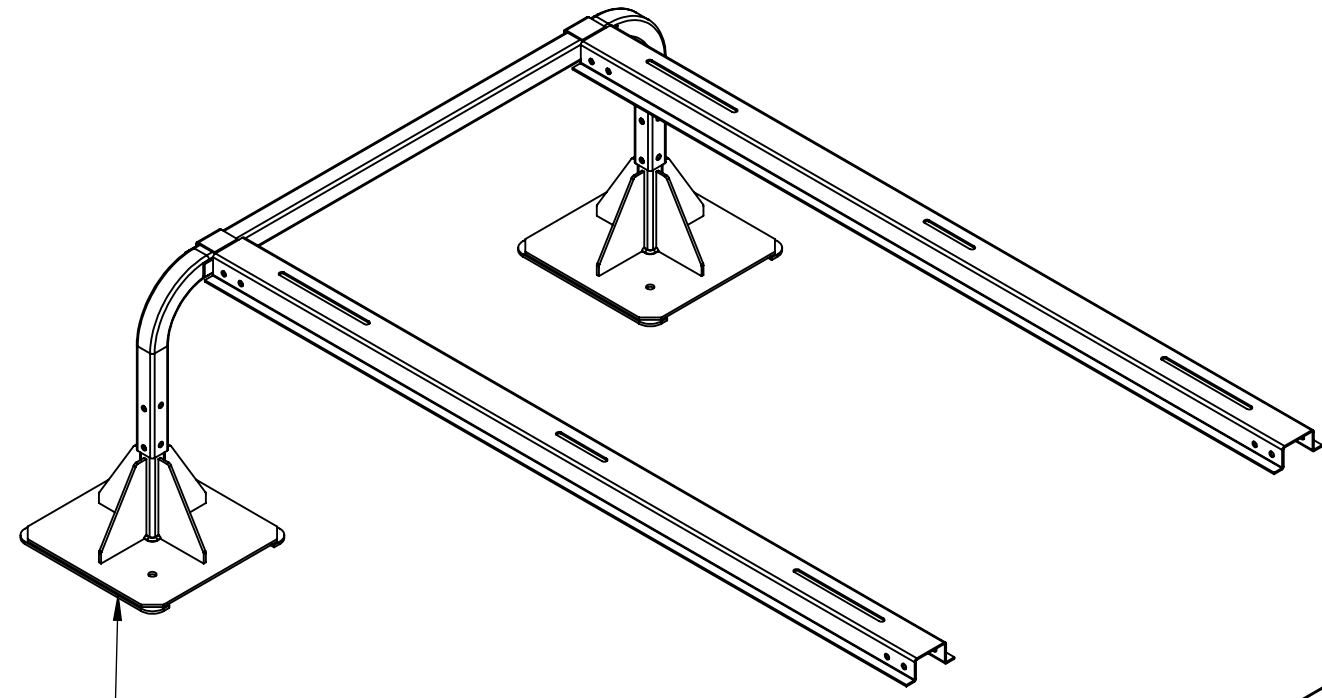
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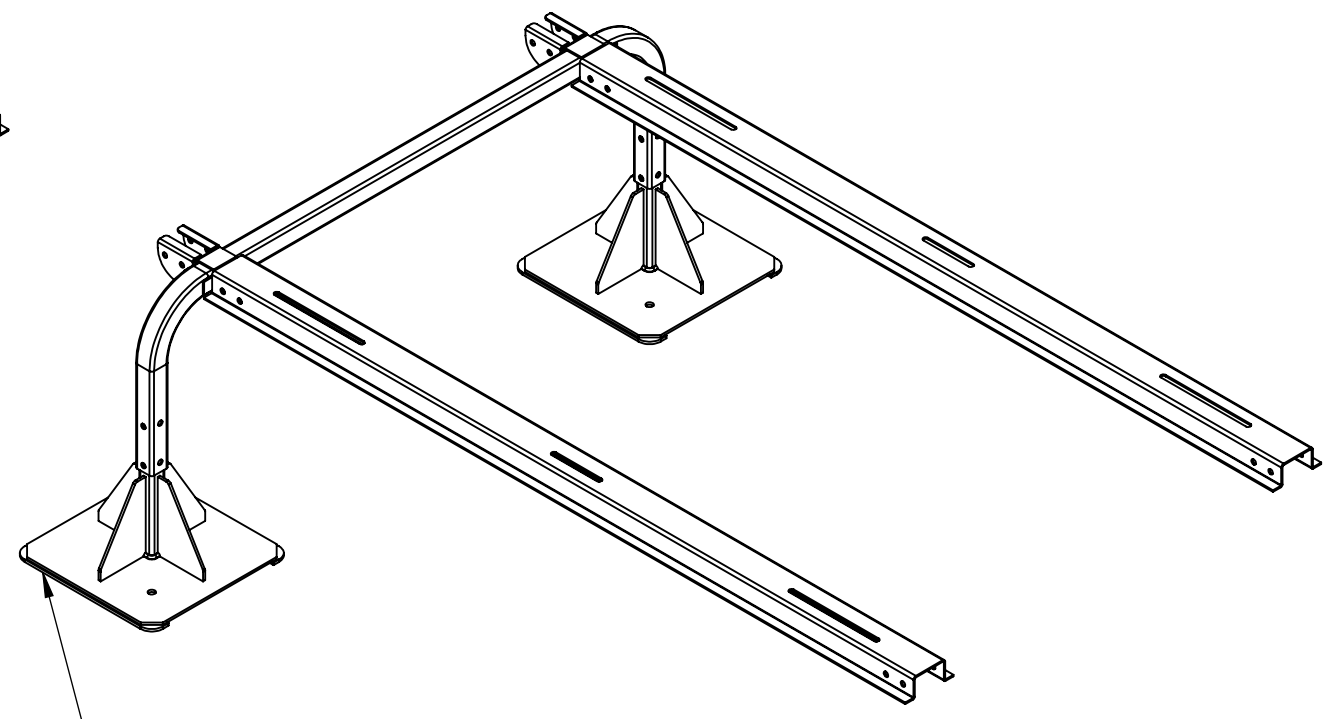
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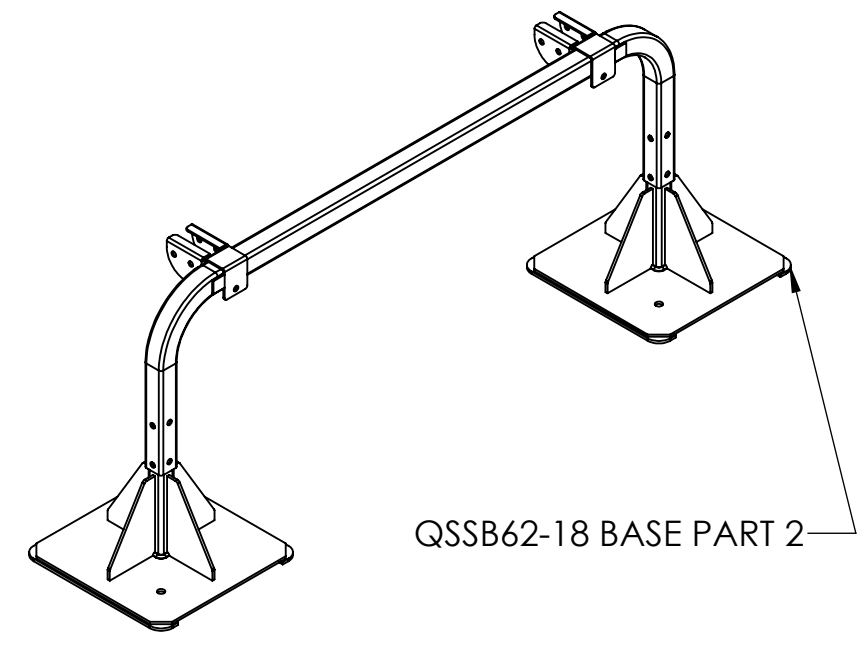
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QSSB62-18 BASE PART 1



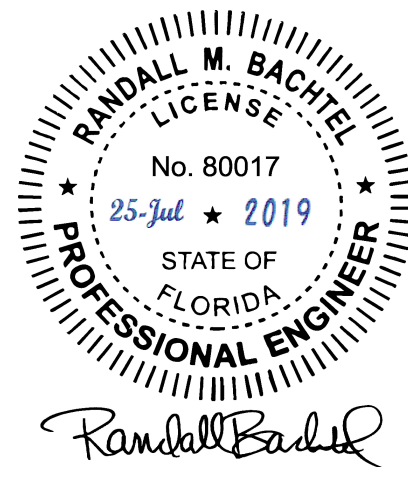
QSSB62-18EXT



QSSB62-18 BASE PART 2

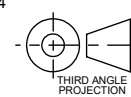
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A



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 FRACTIONAL SIZES X/Y ±1/64

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



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ASSEMBLY:	SUPERSTANDS
DWG. NO.	FL-22415.2

WEIGHT	-NA-
REV.	R1
SHEET	2 OF 21

4

3

2

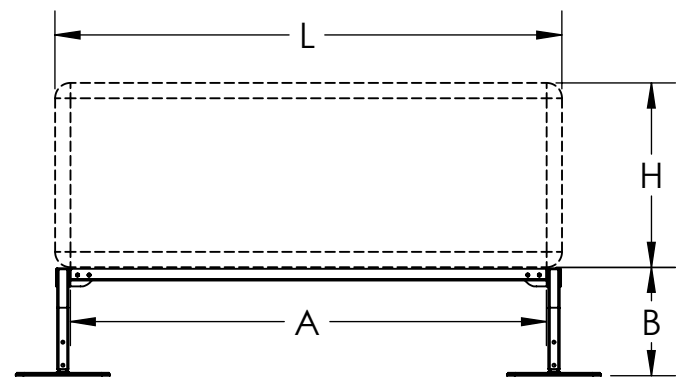
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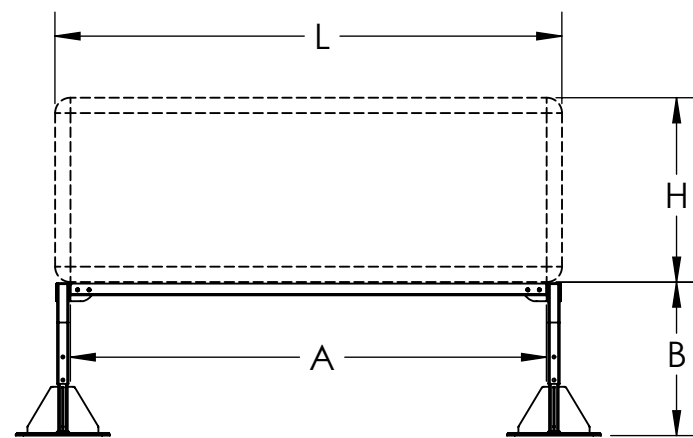
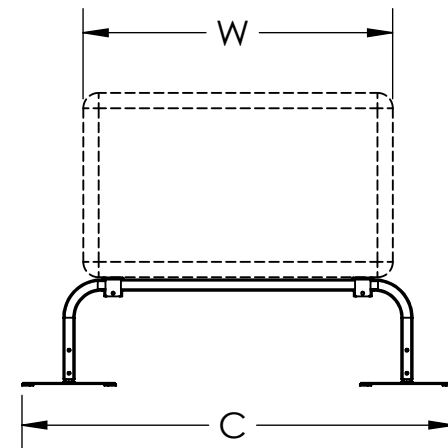
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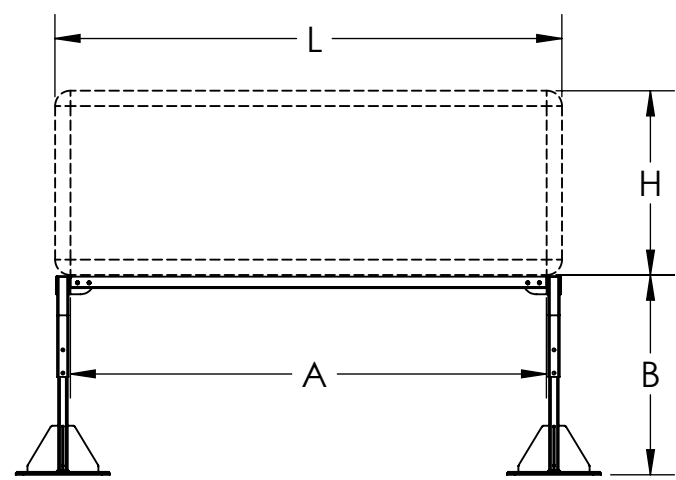
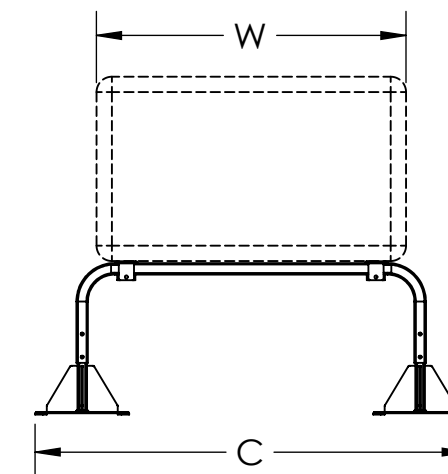
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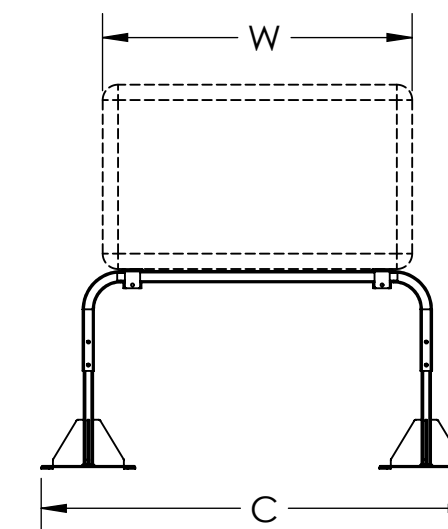
12 INCH FOOT



18 INCH FOOT



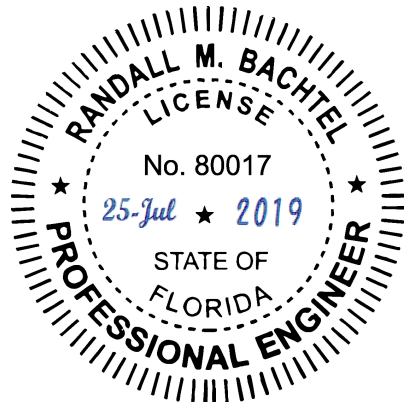
24 INCH FOOT



CONFIGURATION	DIMENSION A	DIMENSION B	DIMENSION C
QSSB48-12 SHORT	48"	14"	56"
QSSB48-12 TALL	48"	16.2"	56"
QSSB48-12M SHORT	48"	14"	56"
QSSB48-12M TALL	48"	16.2"	56"
QSSB48-18 SHORT	48"	19.8"	56"
QSSB48-18 TALL	48"	21"	56"
QSSB48-18M SHORT	48"	19.8"	56"
QSSB48-18M TALL	48"	21"	56"
QSSB48-24 SHORT	48"	25.8"	56"
QSSB48-24 TALL	48"	27"	56"
QSSB48-24M SHORT	48"	25.8"	56"
QSSB48-24M TALL	48"	27"	56"
QSSB62-12 SHORT	62"	14"	56"
QSSB62-12 TALL	62"	16.2"	56"
QSSB62-12M SHORT	62"	14"	56"
QSSB62-12M TALL	62"	16.2"	56"
QSSB62-18 SHORT	62"	19.8"	56"
QSSB62-18 TALL	62"	21"	56"
QSSB62-18M SHORT	62"	19.8"	56"
QSSB62-18M TALL	62"	21"	56"
QSSB62-24 SHORT	62"	25.8"	56"
QSSB62-24 TALL	62"	27"	56"
QSSB62-24M SHORT	62"	25.8"	56"
QSSB62-24M TALL	62"	27"	56"
QSSB74-12 SHORT	74"	14"	56"
QSSB74-12 TALL	74"	16.2"	56"
QSSB74-12M SHORT	74"	14"	56"
QSSB74-12M TALL	74"	16.2"	56"
QSSB74-18 SHORT	74"	19.8"	56"
QSSB74-18 TALL	74"	21"	56"
QSSB74-18M SHORT	74"	19.8"	56"
QSSB74-18M TALL	74"	21"	56"
QSSB74-24 SHORT	74"	25.8"	56"
QSSB74-24 TALL	74"	27"	56"
QSSB74-24M SHORT	74"	25.8"	56"
QSSB74-24M TALL	74"	27"	56"

CONFIGURATION	DIMENSION H MAXIMUM	DIMENSION L MAXIMUM	DIMENSION W MAXIMUM
QSSB48-12	73"	49"	32"
QSSB48-12M	73"	49"	32"
QSSB48-18	73"	49"	32"
QSSB48-18M	73"	49"	32"
QSSB48-24	73"	49"	32"
QSSB48-24M	73"	49"	32"
QSSB62-12	73"	61"	32"
QSSB62-12M	73"	61"	32"
QSSB62-18	73"	61"	32"
QSSB62-18M	73"	61"	32"
QSSB62-24	73"	61"	32"
QSSB62-24M	73"	61"	32"
QSSB74-12	73"	69"	32"
QSSB75-12M	73"	69"	32"
QSSB74-18	73"	69"	32"
QSSB74-18M	73"	69"	32"
QSSB74-24	73"	69"	32"
QSSB74-24M	73"	69"	32"

MINIMUM WEIGHT OF VRF IS 280 LBS



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

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

THIRD ANGLE PROJECTION



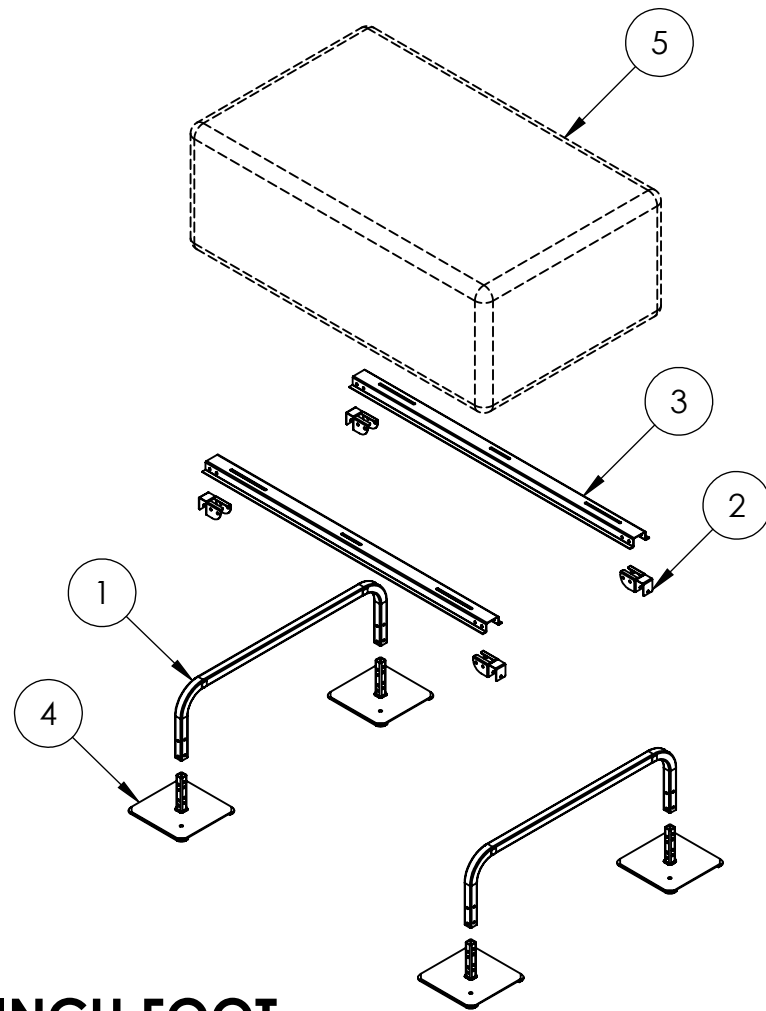
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	DESCRIPTION	

4

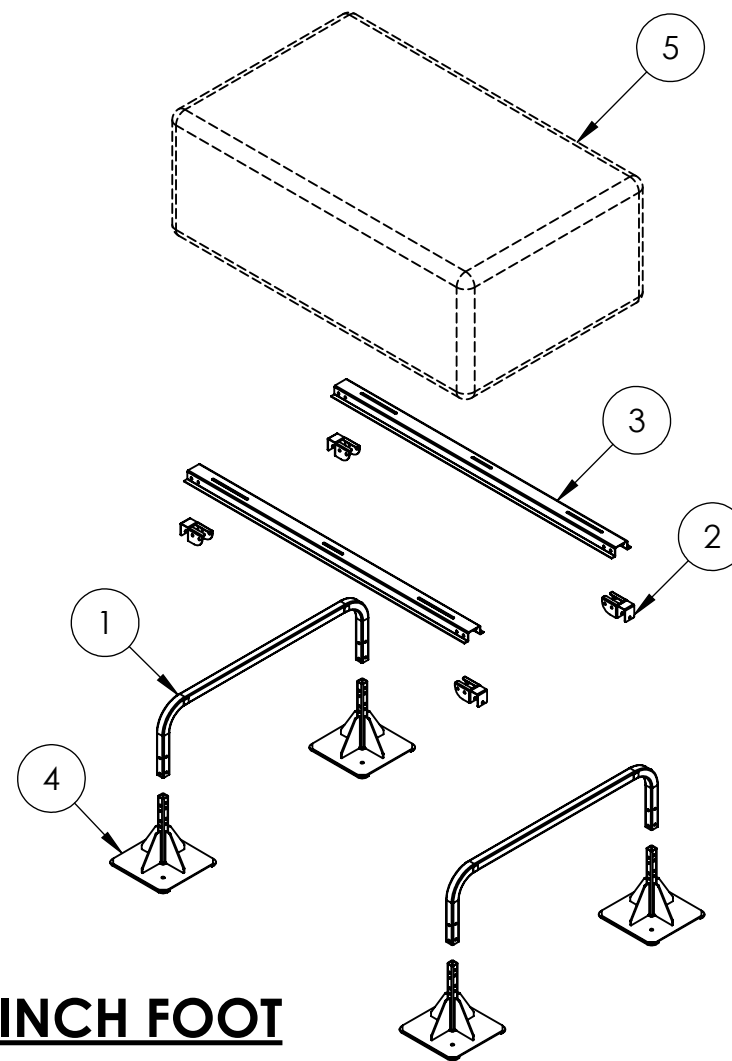
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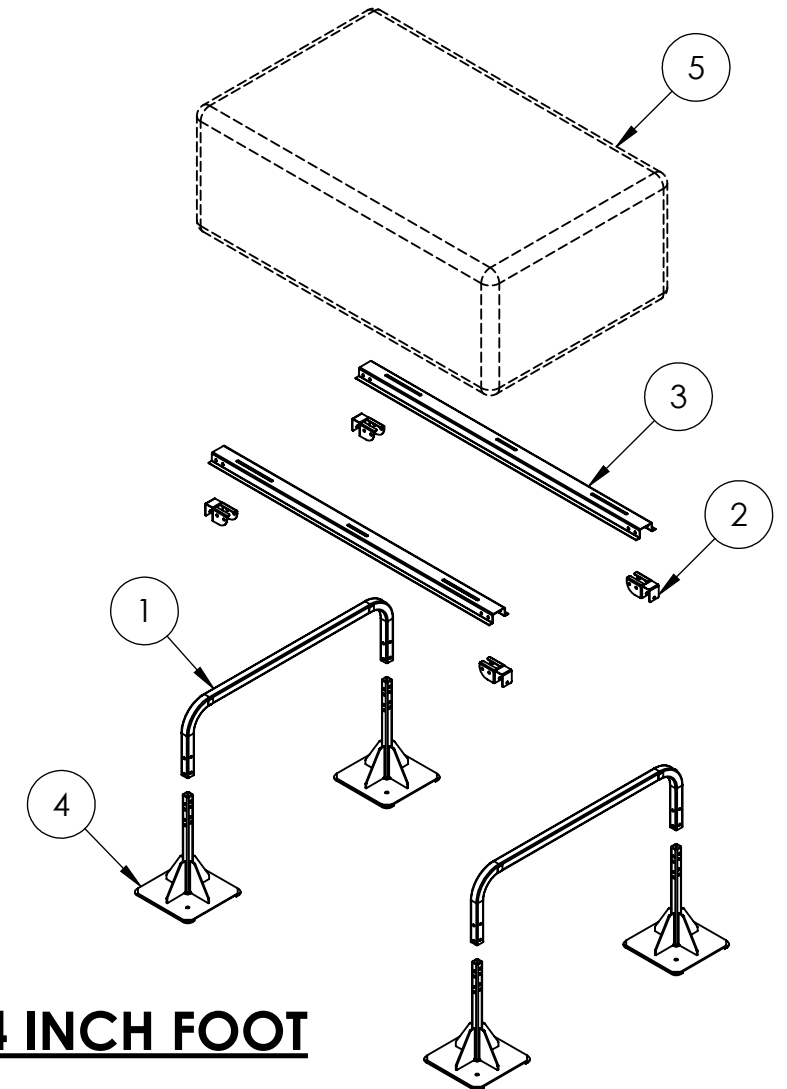
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12 INCH FOOT

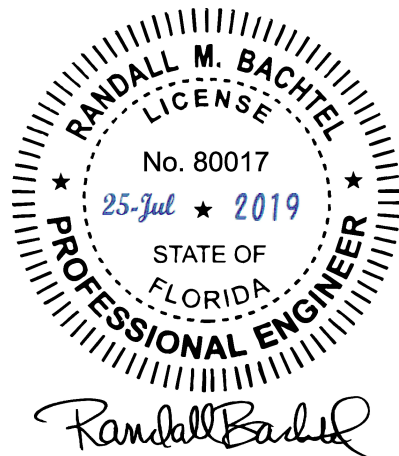


18 INCH FOOT



24 INCH FOOT

CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5
QSSB48-12	65in Super Stand leg	Single-Saddle	48" Rail-Long Slots	SS102-12	Equipment Package
QSSB48-12M	65in Super Stand legM	Single-SaddleM	48" Rail-Long SlotsM	SS102-12M	Equipment Package
QSSB48-18	65in Super Stand leg	Single-Saddle	48" Rail-Long Slots	SS102-18	Equipment Package
QSSB48-18M	65in Super Stand legM	Single-SaddleM	48" Rail-Long SlotsM	SS102-18M	Equipment Package
QSSB48-24	65in Super Stand leg	Single-Saddle	48" Rail-Long Slots	SS102-24	Equipment Package
QSSB48-24M	65in Super Stand legM	Single-SaddleM	48" Rail-Long SlotsM	SS102-24M	Equipment Package
QSSB62-12	65in Super Stand leg	Single-Saddle	62" Rail-Long Slots	SS102-12	Equipment Package
QSSB62-12M	65in Super Stand legM	Single-SaddleM	48" Rail-Long SlotsM	SS102-12M	Equipment Package
QSSB62-18	65in Super Stand leg	Single-Saddle	62" Rail-Long Slots	SS102-18	Equipment Package
QSSB62-18M	65in Super Stand legM	Single-SaddleM	48" Rail-Long SlotsM	SS102-18M	Equipment Package
QSSB62-24	65in Super Stand leg	Single-Saddle	62" Rail-Long Slots	SS102-24	Equipment Package
QSSB62-24M	65in Super Stand legM	Single-SaddleM	48" Rail-Long SlotsM	SS102-24M	Equipment Package
QSSB74-12	65in Super Stand leg	Single-Saddle	74" Rail-Long Slots	SS102-12	Equipment Package
QSSB74-12M	65in Super Stand legM	Single-SaddleM	48" Rail-Long SlotsM	SS102-12M	Equipment Package
QSSB74-18	65in Super Stand leg	Single-Saddle	74" Rail-Long Slots	SS102-18	Equipment Package
QSSB74-18M	65in Super Stand legM	Single-SaddleM	48" Rail-Long SlotsM	SS102-18M	Equipment Package
QSSB74-24	65in Super Stand leg	Single-Saddle	74" Rail-Long Slots	SS102-24	Equipment Package
QSSB74-24M	65in Super Stand legM	Single-SaddleM	48" Rail-Long SlotsM	SS102-24M	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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DESCRIPTION

ASSEMBLY: SUPERSTANDS

DWG. NO. FL-22415.2

REV. R1

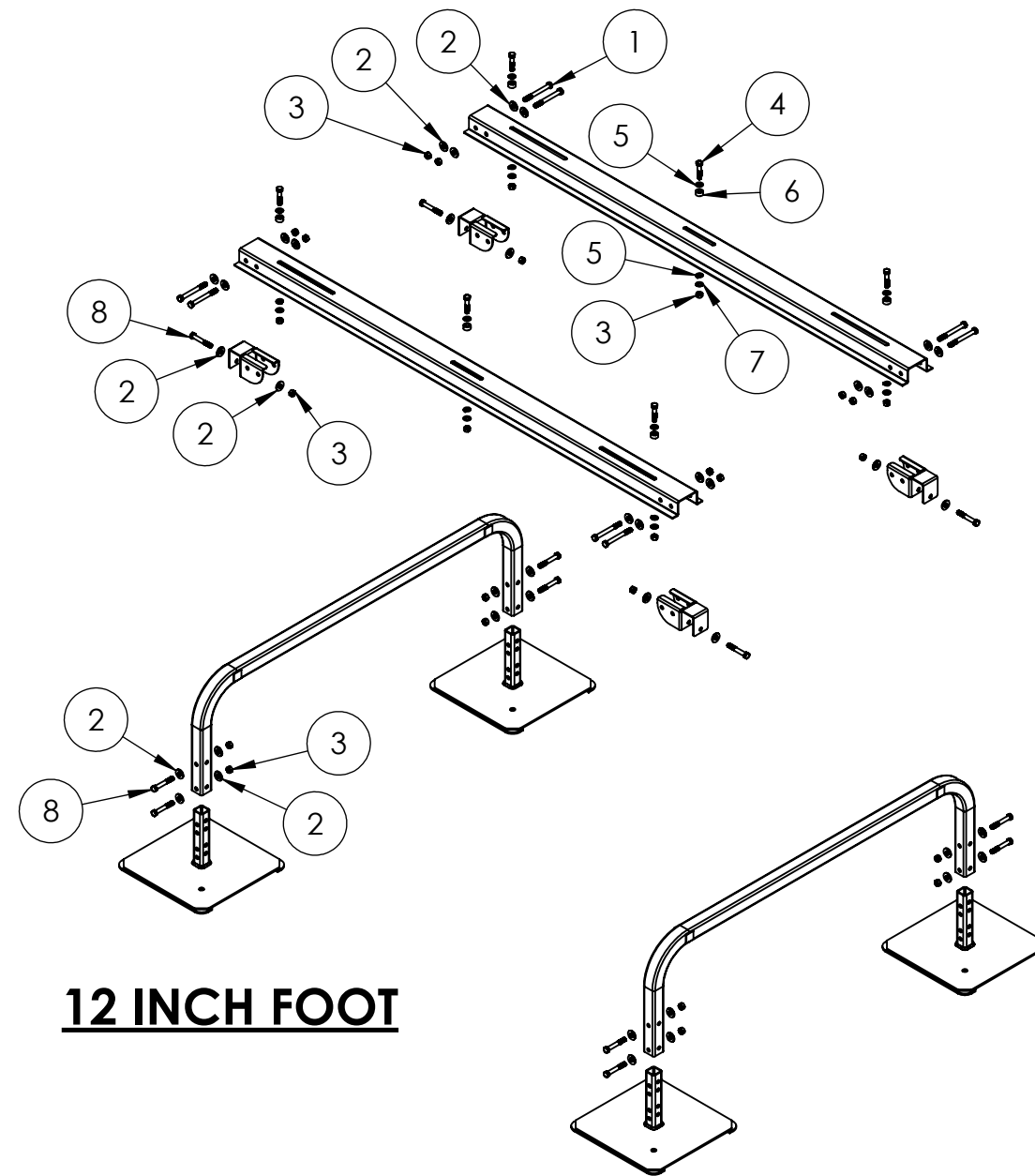
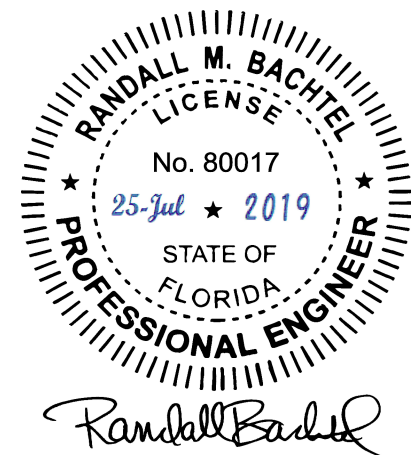
SHEET 4 OF 21

WEIGHT

-NA-

REV. R1

SHEET 4 OF 21



12 INCH FOOT

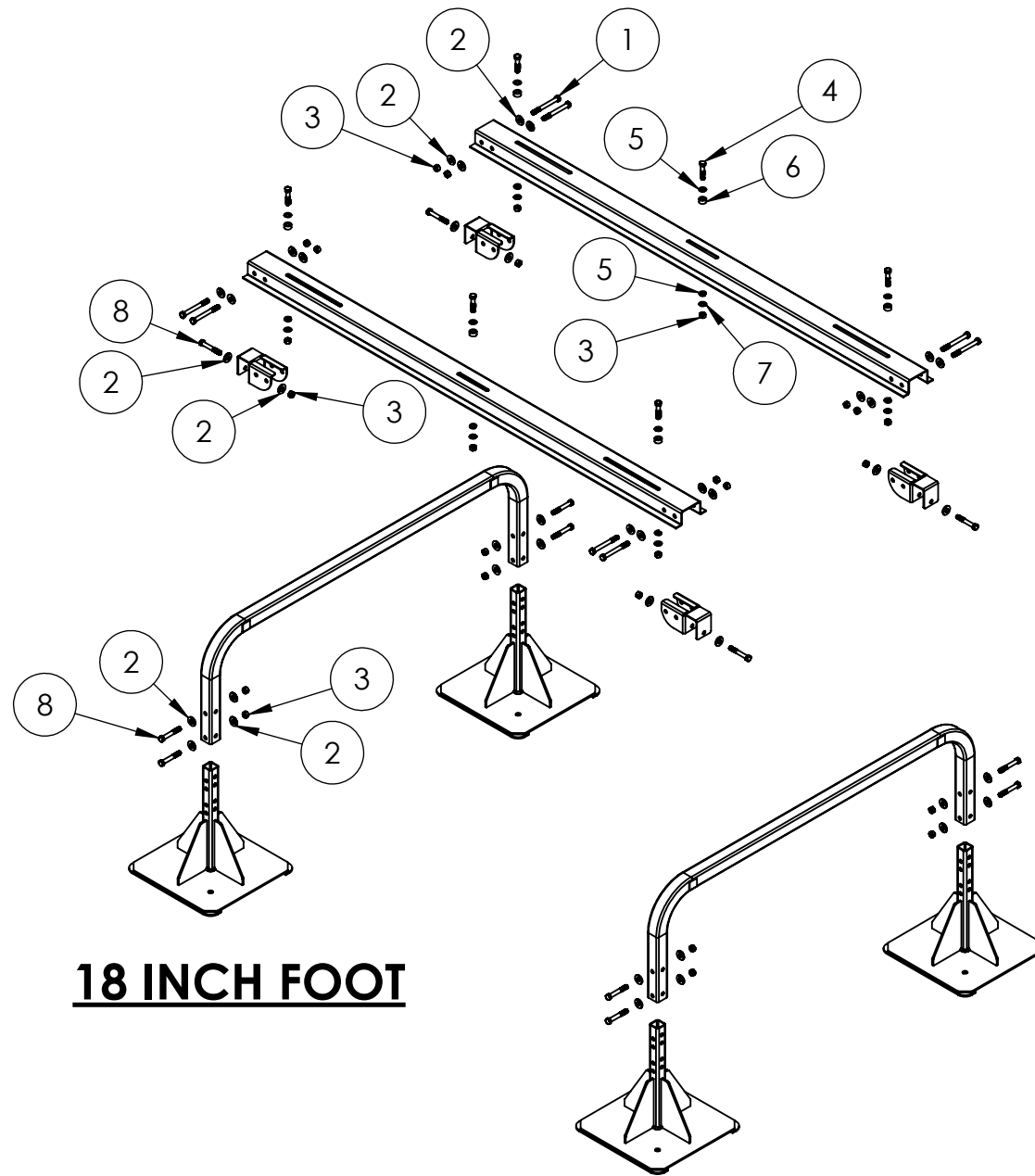
CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSSB48-12	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSS482-12M	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-12	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-12M	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB74-12	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB74-12M	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT

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

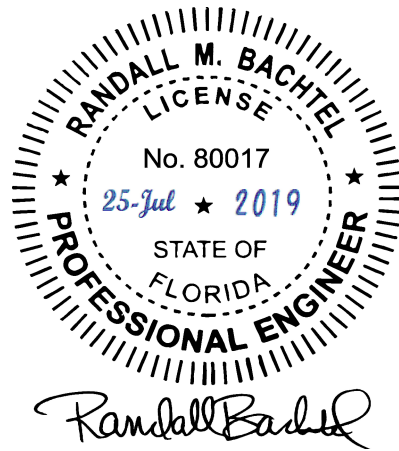
INCHES	[MILLIMETERS]
.X = ±0.1	[X = ±2.5]
.XX = ±0.01	[.X = ±1.3]
.XXX = ±0.005	[.XX = ±0.13]



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18 INCH FOOT



CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSSB48-18	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB48-18M	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-18	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-18M	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB74-18	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB74-18M	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT

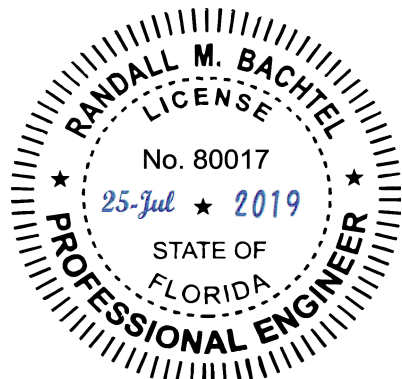
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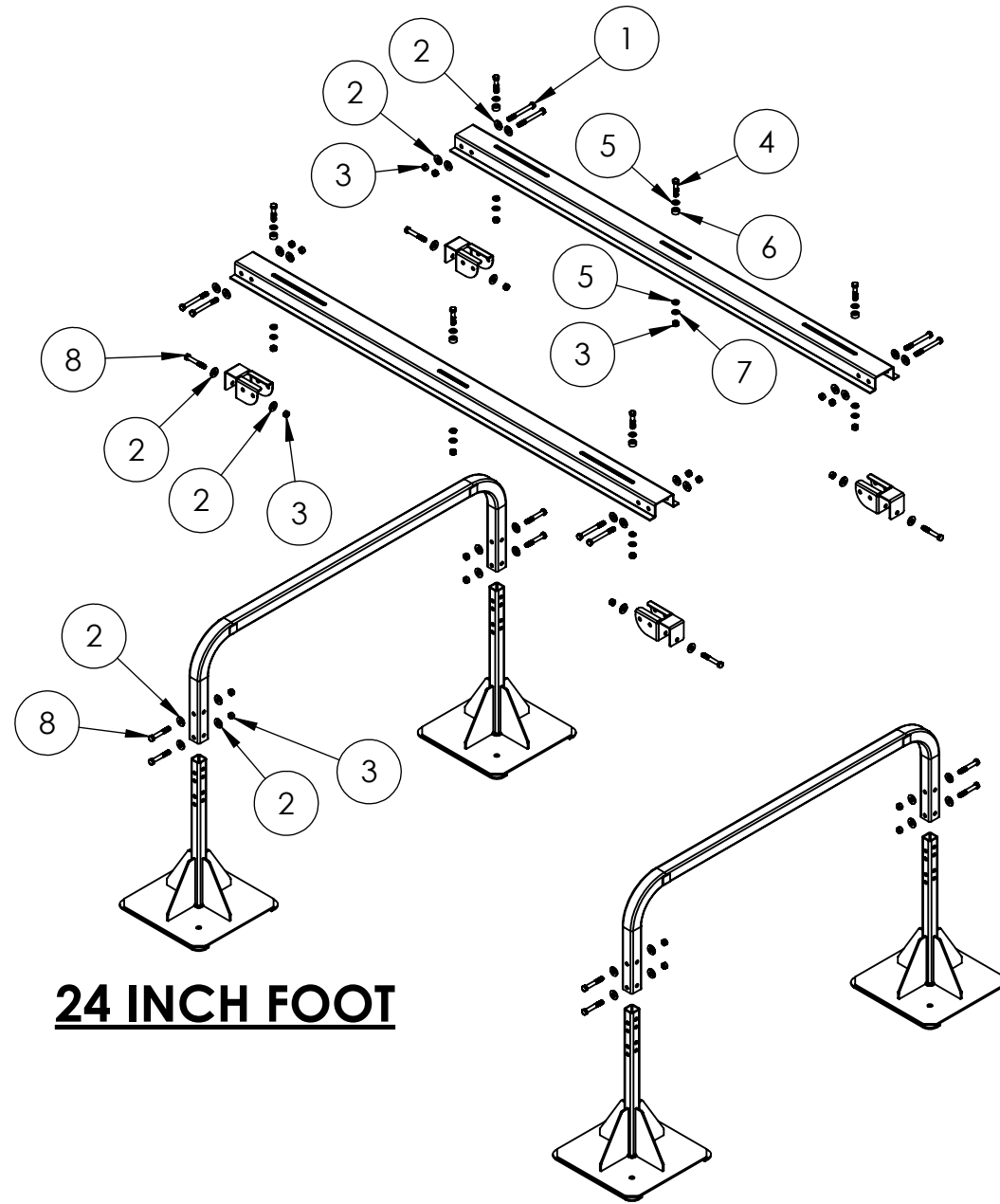


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ASSEMBLY:	SUPERSTANDS	WEIGHT	-NA-
DWG. NO.	FL-22415.2	REV.	R1
DESCRIPTION		SHEET	6 OF 21



Randall Bachtel



24 INCH FOOT

CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSSB48-24	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB48-24M	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-24	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-24M	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB74-24	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB74-24M	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT

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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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DESCRIPTION

ASSEMBLY: SUPERSTANDS

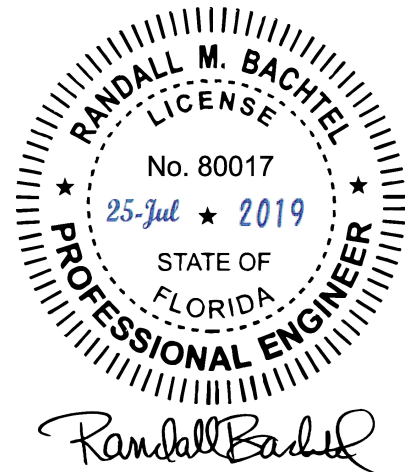
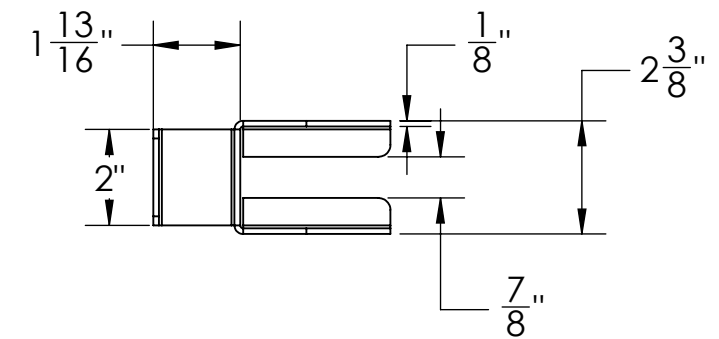
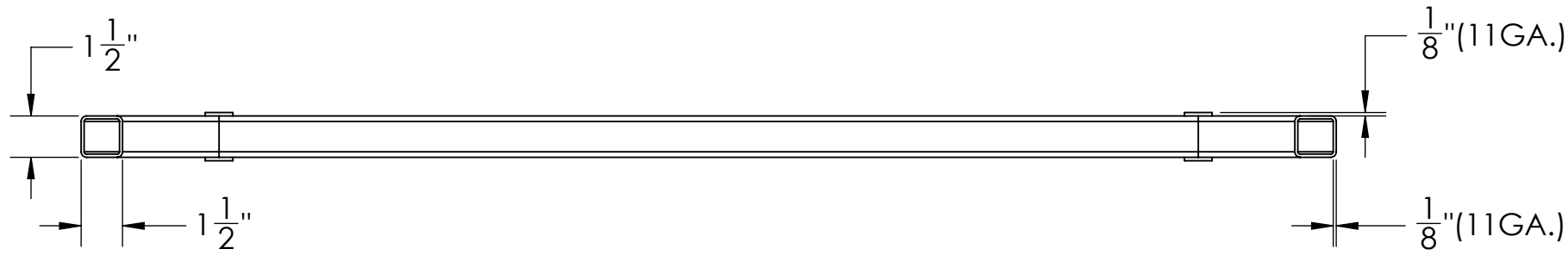
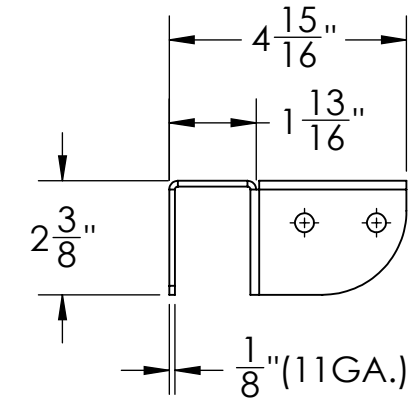
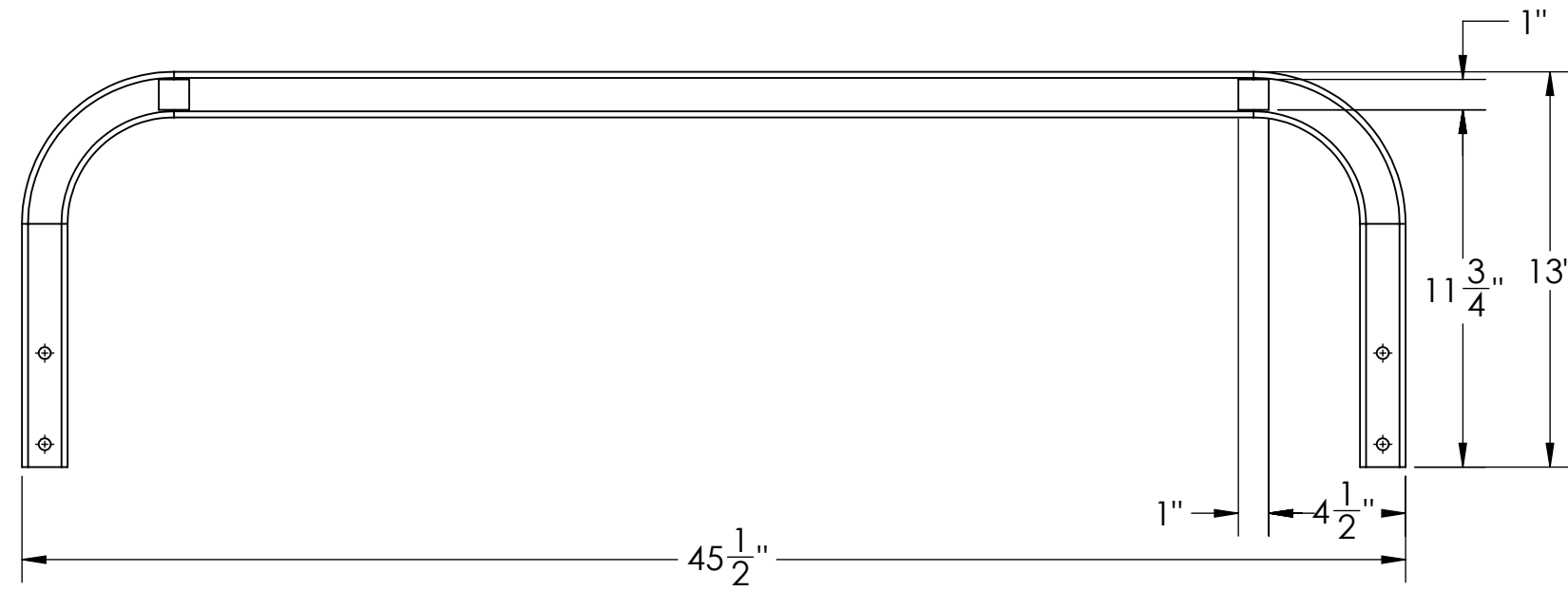
DWG. NO. FL-22415.2

REV. R1

SHEET 7 OF 21

WEIGHT -NA-

DESCRIPTION



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

THIRD ANGLE PROJECTION



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	DESCRIPTION	

4

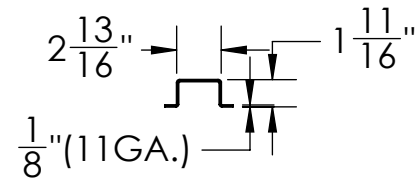
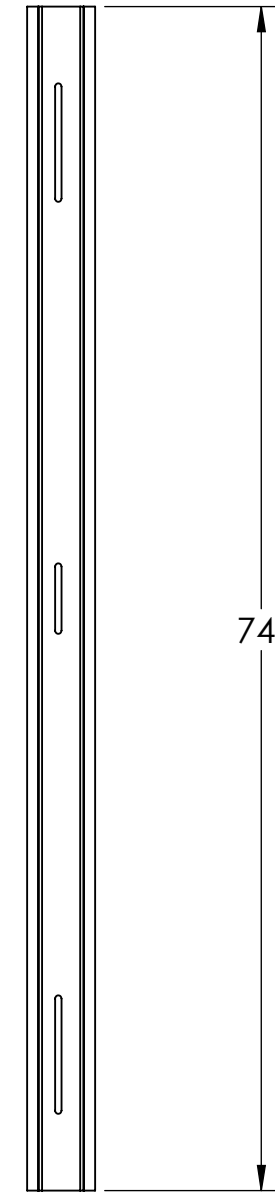
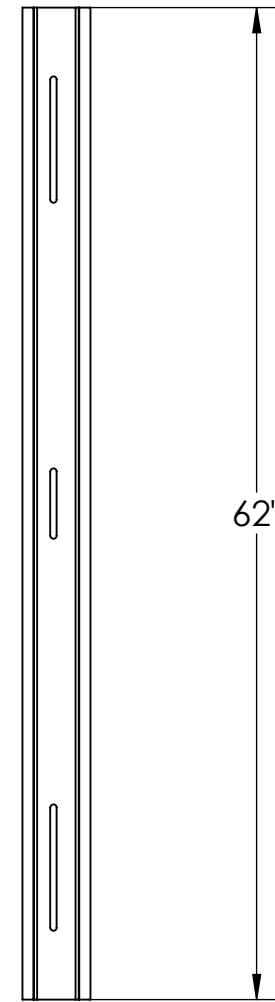
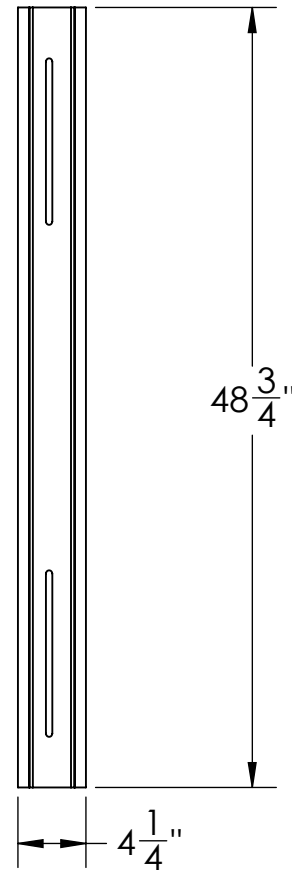
3

2

1

B

B



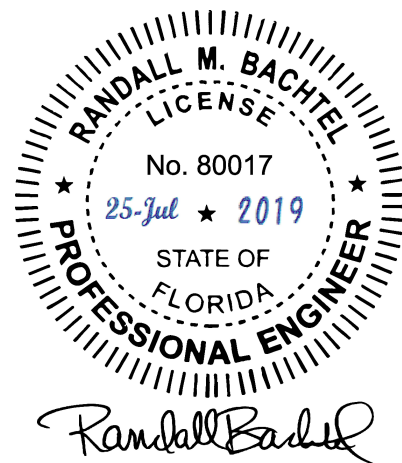
48 IN RAIL

62 IN RAIL

74 IN RAIL

A

A



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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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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	DESCRIPTION	

4

3

2

1

4

3

2

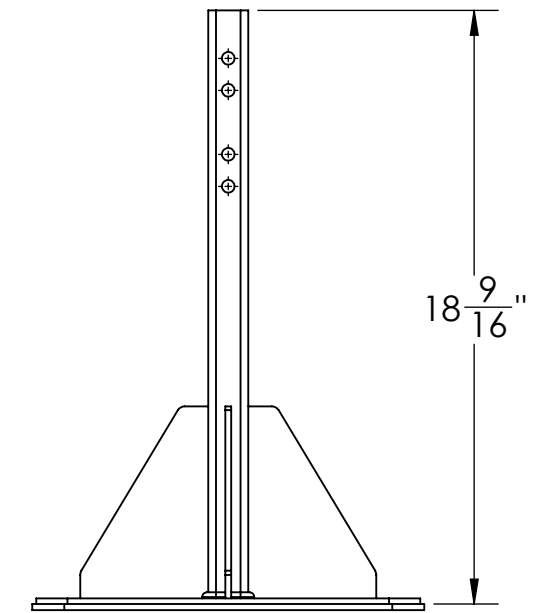
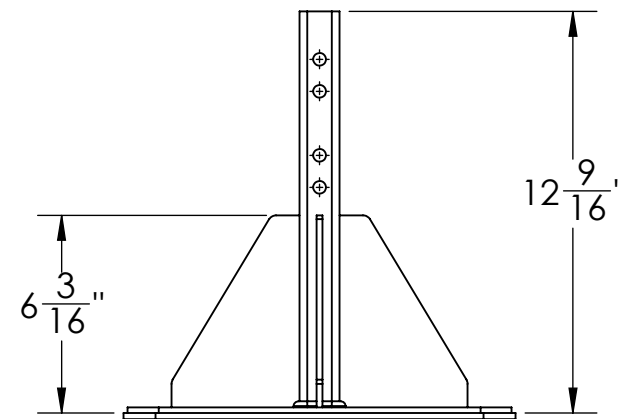
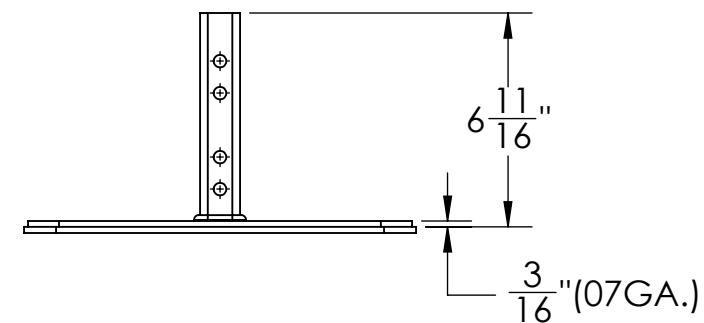
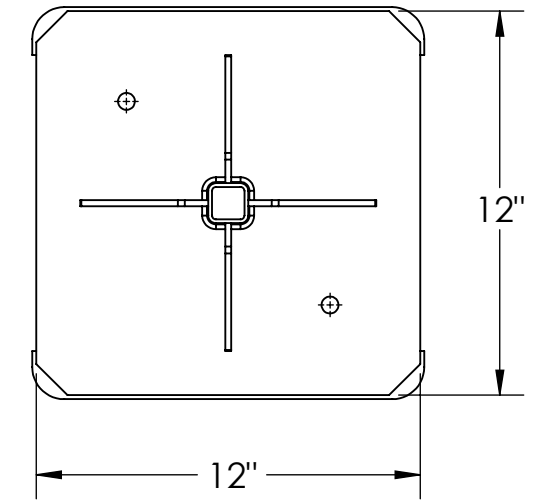
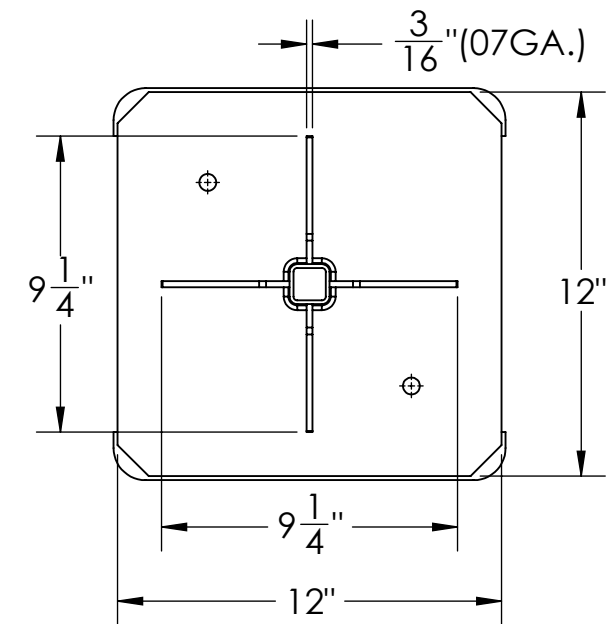
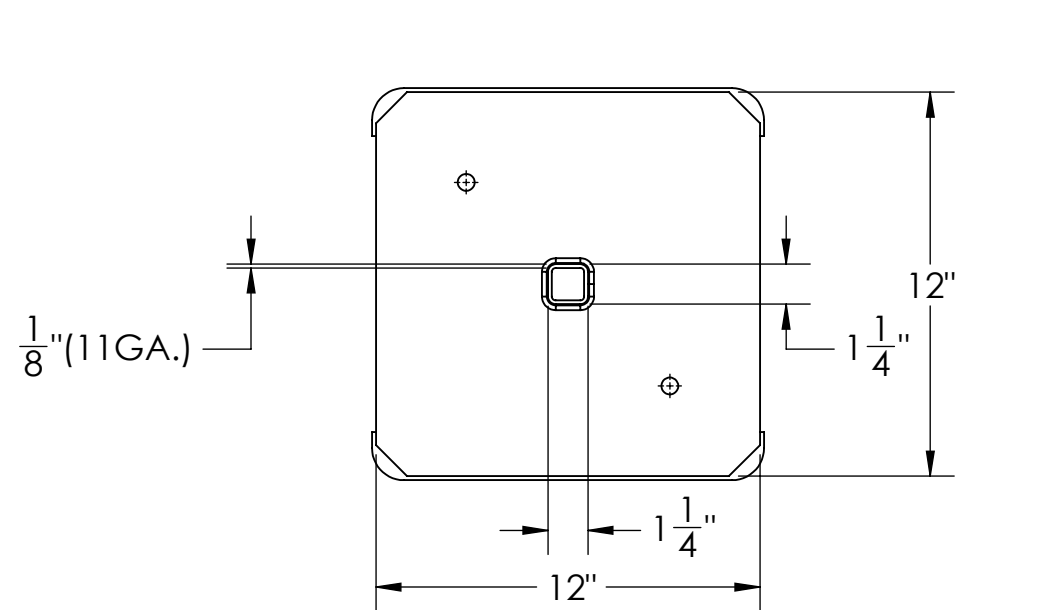
1

B

B

A

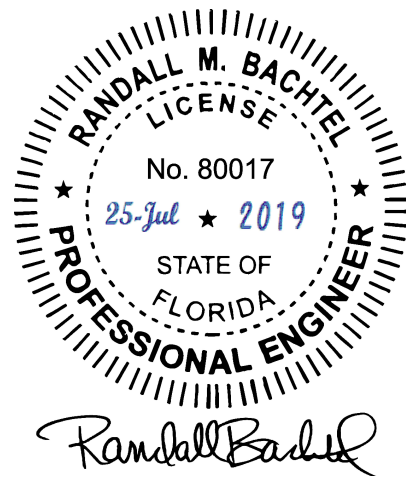
A



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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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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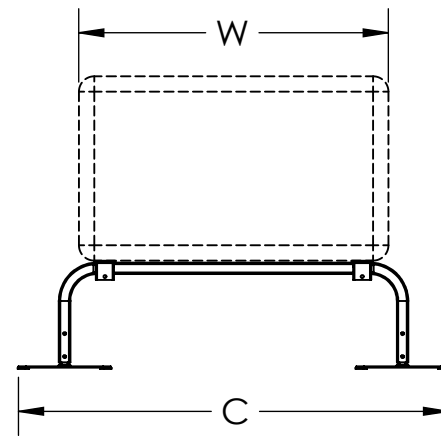
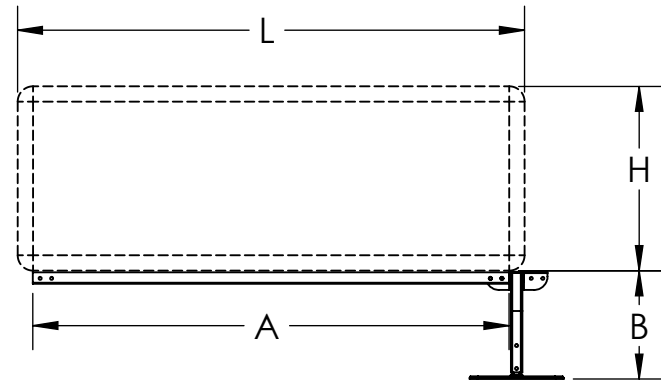
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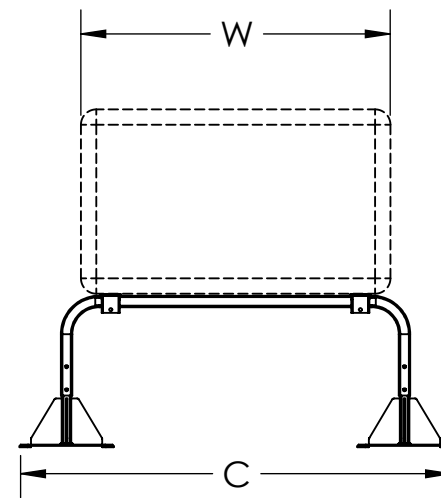
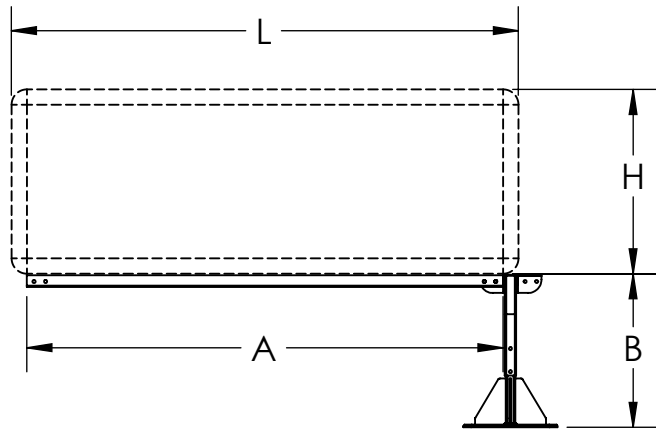
2

1

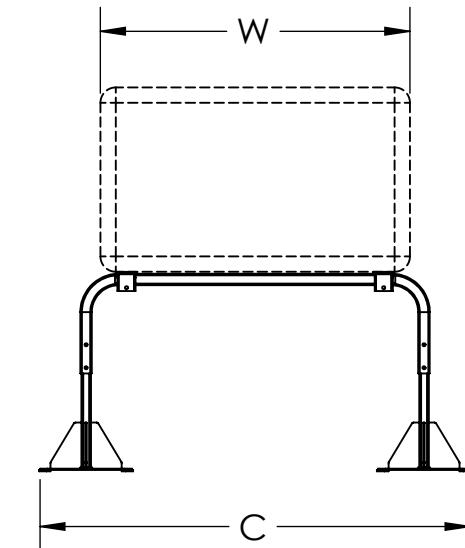
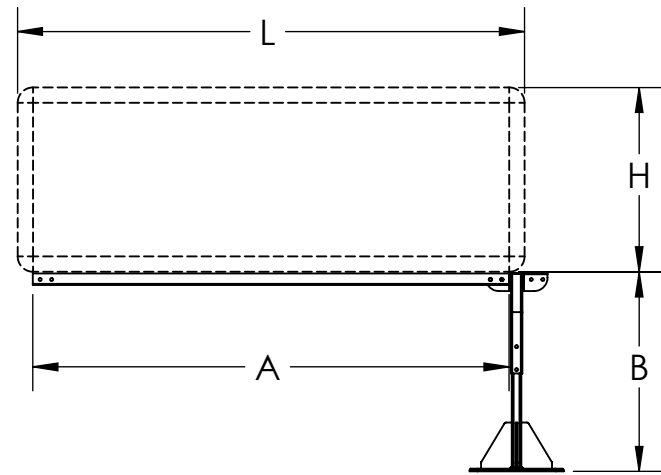
12 INCH FOOT



18 INCH FOOT



24 INCH FOOT



CONFIGURATION	DIMENSION A	DIMENSION B	DIMENSION C
QSSB48-12EXT SHORT	48"	14"	56"
QSSB48-12EXT TALL	48"	16.2"	56"
QSSB48-12MEXT SHORT	48"	14"	56"
QSSB48-12MEXT TALL	48"	16.2"	56"
QSSB48-18EXT SHORT	48"	19.8"	56"
QSSB48-18EXT TALL	48"	21"	56"
QSSB48-18MEXT SHORT	48"	19.8"	56"
QSSB48-18MEXT TALL	48"	21"	56"
QSSB48-24EXT SHORT	48"	25.8"	56"
QSSB48-24EXT TALL	48"	27"	56"
QSSB48-24MEXT SHORT	48"	25.8"	56"
QSSB48-24MEXT TALL	48"	27"	56"
QSSB62-12EXT SHORT	62"	14"	56"
QSSB62-12EXT TALL	62"	16.2"	56"
QSSB62-12MEXT SHORT	62"	14"	56"
QSSB62-12MEXT TALL	62"	16.2"	56"
QSSB62-18EXT SHORT	62"	19.8"	56"
QSSB62-18EXT TALL	62"	21"	56"
QSSB62-18MEXT SHORT	62"	19.8"	56"
QSSB62-18MEXT TALL	62"	21"	56"
QSSB62-24EXT SHORT	62"	25.8"	56"
QSSB62-24EXT TALL	62"	27"	56"
QSSB62-24MEXT SHORT	62"	25.8"	56"
QSSB62-24MEXT TALL	62"	27"	56"
QSSB74-12EXT SHORT	74"	14"	56"
QSSB74-12EXT TALL	74"	16.2"	56"
QSSB74-12MEXT SHORT	74"	14"	56"
QSSB74-12MEXT TALL	74"	16.2"	56"
QSSB74-18EXT SHORT	74"	19.8"	56"
QSSB74-18EXT TALL	74"	21"	56"
QSSB74-18MEXT SHORT	74"	19.8"	56"
QSSB74-18MEXT TALL	74"	21"	56"
QSSB74-24EXT SHORT	74"	25.8"	56"
QSSB74-24EXT TALL	74"	27"	56"
QSSB74-24MEXT SHORT	74"	25.8"	56"
QSSB74-24MEXT TALL	74"	27"	56"

CONFIGURATION	DIMENSION H MAXIMUM	DIMENSION L MAXIMUM	DIMENSION W MAXIMUM
QSSB48-12EXT	73"	49"	32"
QSSB48-12MEXT	73"	49"	32"
QSSB48-18EXT	73"	49"	32"
QSSB48-18MEXT	73"	49"	32"
QSSB48-24EXT	73"	49"	32"
QSSB48-24MEXT	73"	49"	32"
QSSB62-12EXE	73"	61"	32"
QSSB62-12MEXT	73"	61"	32"
QSSB62-18EXT	73"	61"	32"
QSSB62-18MEXT	73"	61"	32"
QSSB62-24EXT	73"	61"	32"
QSSB62-24MEXT	73"	61"	32"
QSSB74-12EXT	73"	69"	32"
QSSB74-12MEXT	73"	69"	32"
QSSB74-18EXT	73"	69"	32"
QSSB74-18MEXT	73"	69"	32"
QSSB74-24EXT	73"	69"	32"
QSSB74-24MEXT	73"	69"	32"

MINIMUM WEIGHT OF VRF IS 280 LBS

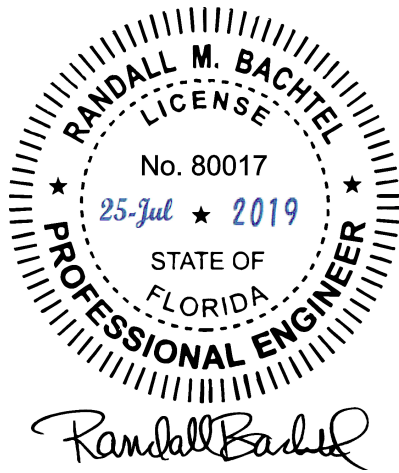
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 TOLERANCES ARE: ANGLES ±1.0°
 FRACTIONAL SIZES X/Y ±1/64

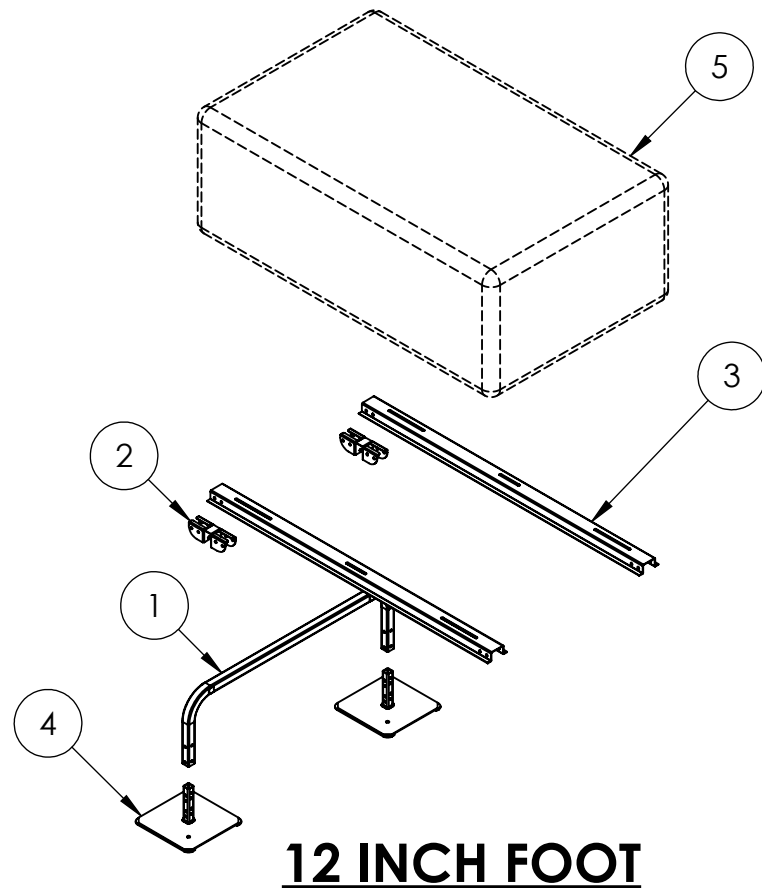
INCHES	[MILLIMETERS]
X = ±0.1	[X = ± 2.5]
.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ±0.13]

THIRD ANGLE PROJECTION

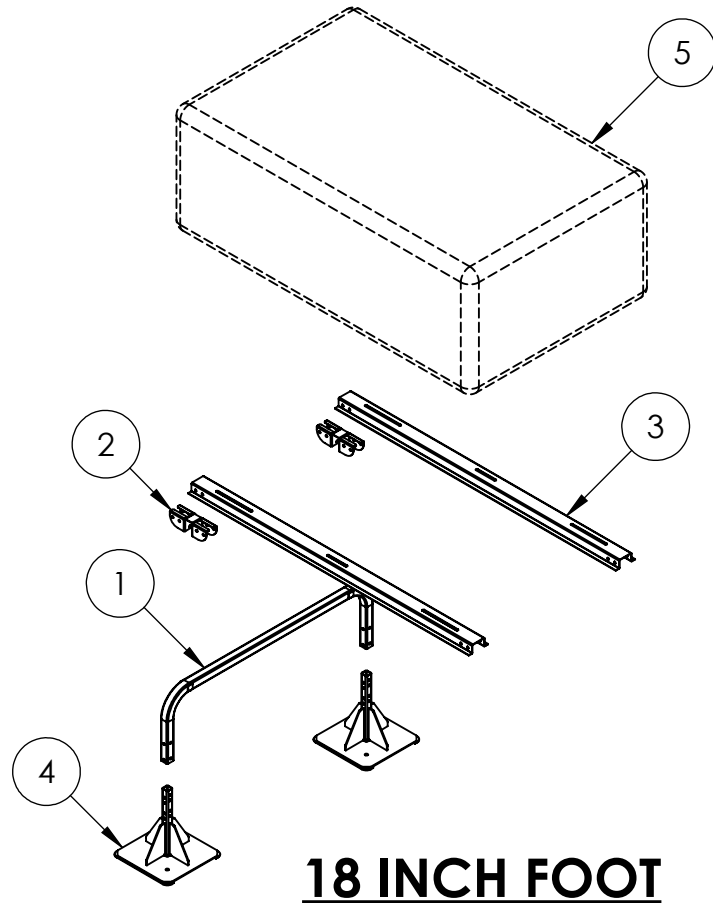


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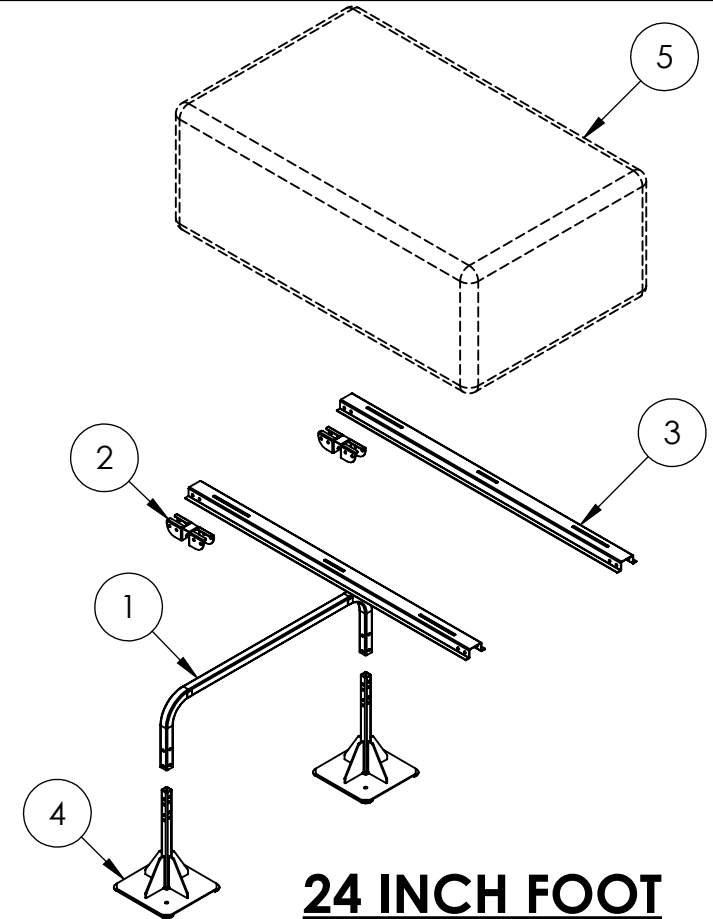




12 INCH FOOT

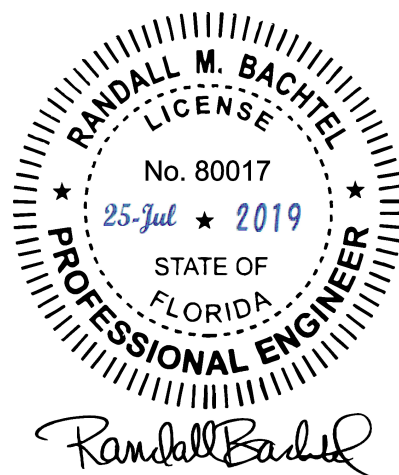


18 INCH FOOT



24 INCH FOOT

CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5
QSSB48-12EXT	65in Super Stand leg	Double-Saddle	48" Rail-Long Slots	SS102-12	Equipment Package
QSSB48-12MEXT	65in Super Stand legM	Double-SaddleM	48" Rail-Long SlotsM	SS102-12M	Equipment Package
QSSB48-18EXT	65in Super Stand leg	Double-Saddle	48" Rail-Long Slots	SS102-18	Equipment Package
QSSB48-18MEXT	65in Super Stand legM	Double-SaddleM	48" Rail-Long SlotsM	SS102-18M	Equipment Package
QSSB48-24EXT	65in Super Stand leg	Double-Saddle	48" Rail-Long Slots	SS102-24	Equipment Package
QSSB48-24MEXT	65in Super Stand legM	Double-SaddleM	48" Rail-Long SlotsM	SS102-24M	Equipment Package
QSSB62-12EXT	65in Super Stand leg	Double-Saddle	62" Rail-Long Slots	SS102-12	Equipment Package
QSSB62-12MEXT	65in Super Stand legM	Double-SaddleM	48" Rail-Long SlotsM	SS102-12M	Equipment Package
QSSB62-18EXT	65in Super Stand leg	Double-Saddle	62" Rail-Long Slots	SS102-18	Equipment Package
QSSB62-18MEXT	65in Super Stand legM	Double-SaddleM	48" Rail-Long SlotsM	SS102-18M	Equipment Package
QSSB62-24EXT	65in Super Stand leg	Double-Saddle	62" Rail-Long Slots	SS102-24	Equipment Package
QSSB62-24MEXT	65in Super Stand legM	Double-SaddleM	48" Rail-Long SlotsM	SS102-24M	Equipment Package
QSSB74-12EXT	65in Super Stand leg	Double-Saddle	74" Rail-Long Slots	SS102-12	Equipment Package
QSSB74-12MEXT	65in Super Stand legM	Double-SaddleM	48" Rail-Long SlotsM	SS102-12M	Equipment Package
QSSB74-18EXT	65in Super Stand leg	Double-Saddle	74" Rail-Long Slots	SS102-18	Equipment Package
QSSB74-18MEXT	65in Super Stand legM	Double-SaddleM	48" Rail-Long SlotsM	SS102-18M	Equipment Package
QSSB74-24EXT	65in Super Stand leg	Double-Saddle	74" Rail-Long Slots	SS102-24	Equipment Package
QSSB74-24MEXT	65in Super Stand legM	Double-SaddleM	48" Rail-Long SlotsM	SS102-24M	Equipment Package



Randall Bachtel

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.XXX = ±0.005	[.XX = ±0.13]



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DESCRIPTION

ASSEMBLY: SUPERSTANDS

DWG. NO. FL-22415.2

REV. R1

SHEET 12 OF 21

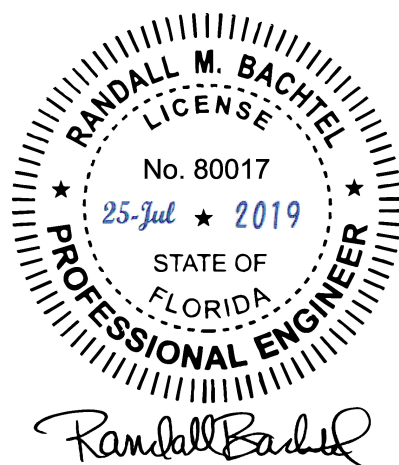
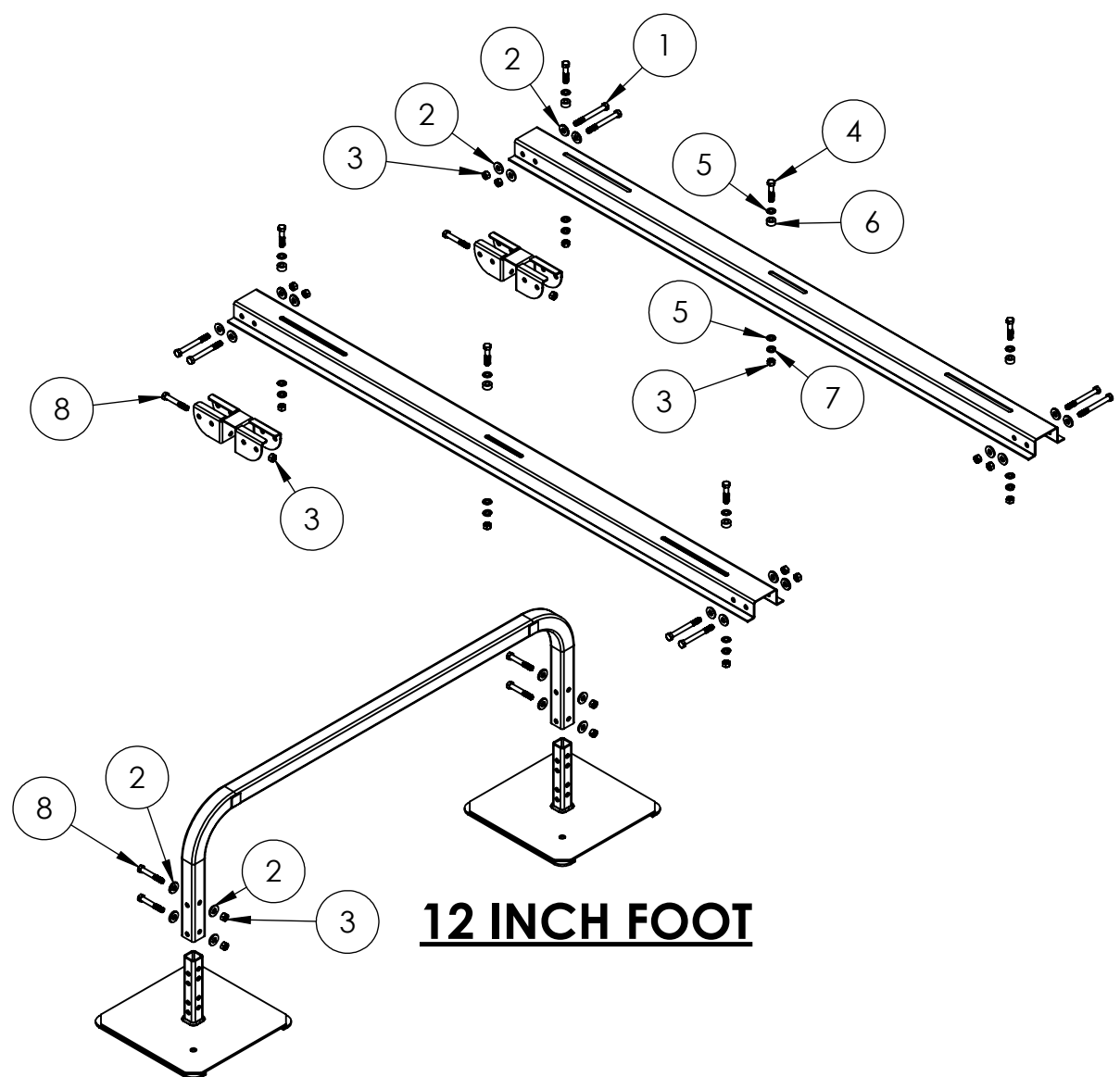
WEIGHT

-NA-

REV.

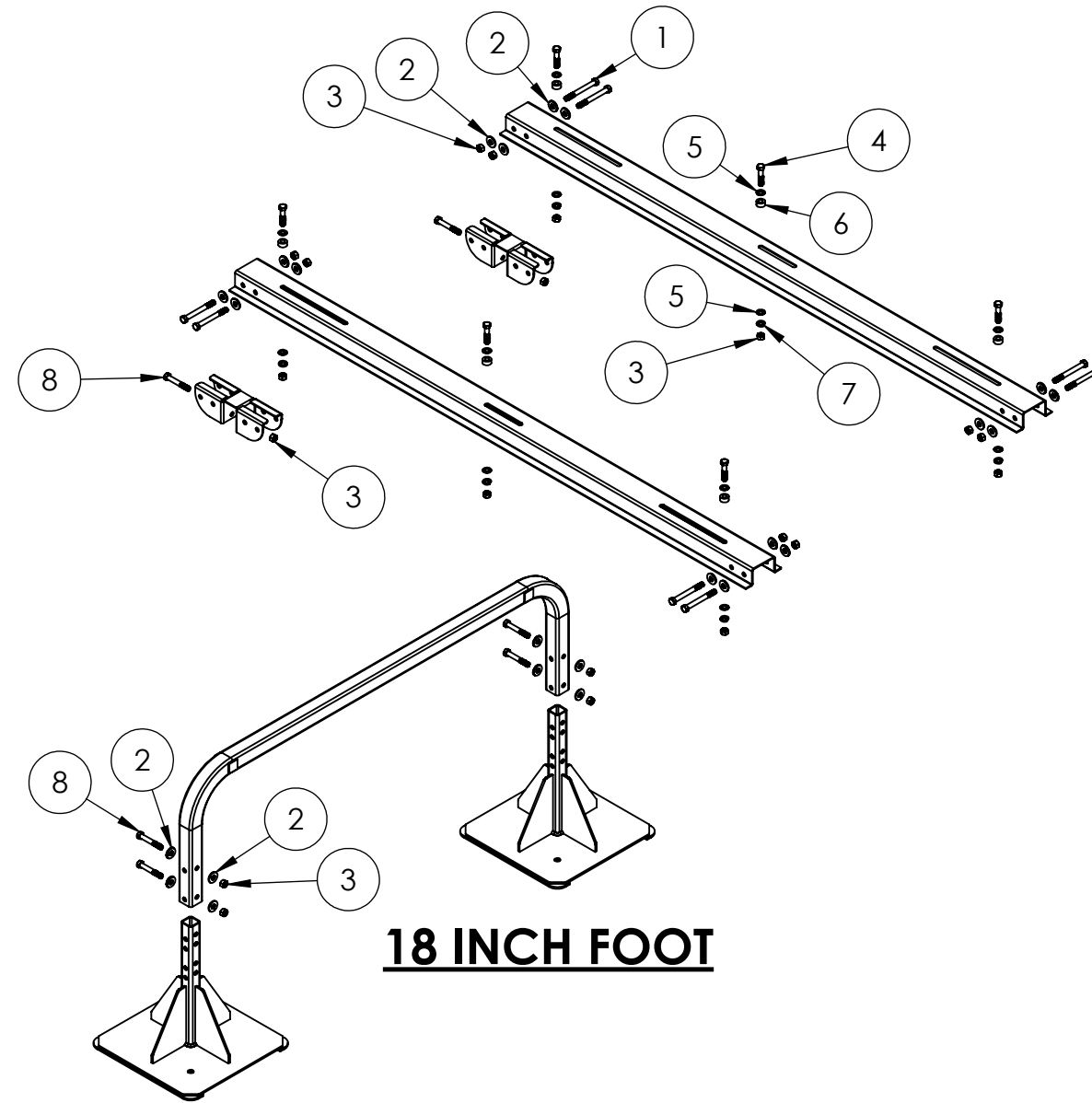
R1

SHEET 12 OF 21

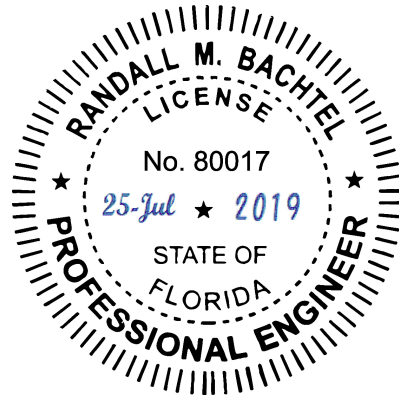


CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSSB48-12EXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB48-12MEXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-12EXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-12MEXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB74-12EXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB74-12MEXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT

NOTE - ALL ASSEMBLY HARDWARE IS INCLUDED	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]		CONFIDENTIAL - PROPRIETARY - DO NOT COPY THE INFORMATION SET FORTH IN THIS DOCUMENT AND RELATED INFORMATION IS THE CONFIDENTIAL PROPERTY OF DIVERSITECH CORPORATION, AND IS NOT TO BE COPIED OR REPRODUCED OR DISTRIBUTED IN ANY FORM WITHOUT PRIOR WRITTEN PERMISSION FROM DIVERSITECH CORPORATION. DO NOT SCALE DRAWING	ASSEMBLY: SUPERSTANDS DWG. NO. FL-22415.2	WEIGHT -NA- REV. R1 SHEET 13 OF 21
			DESCRIPTION		



18 INCH FOOT



Randall Bachtel

CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSSB48-18EXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB48-18MEXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-18EXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-18MEXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
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QSSB74-18MEXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT

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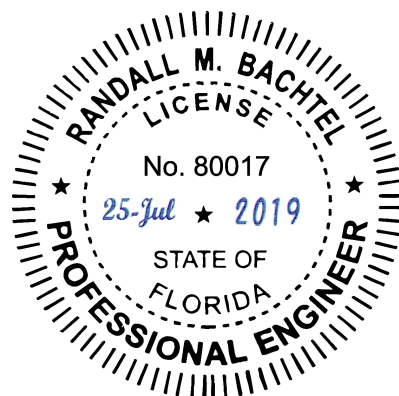
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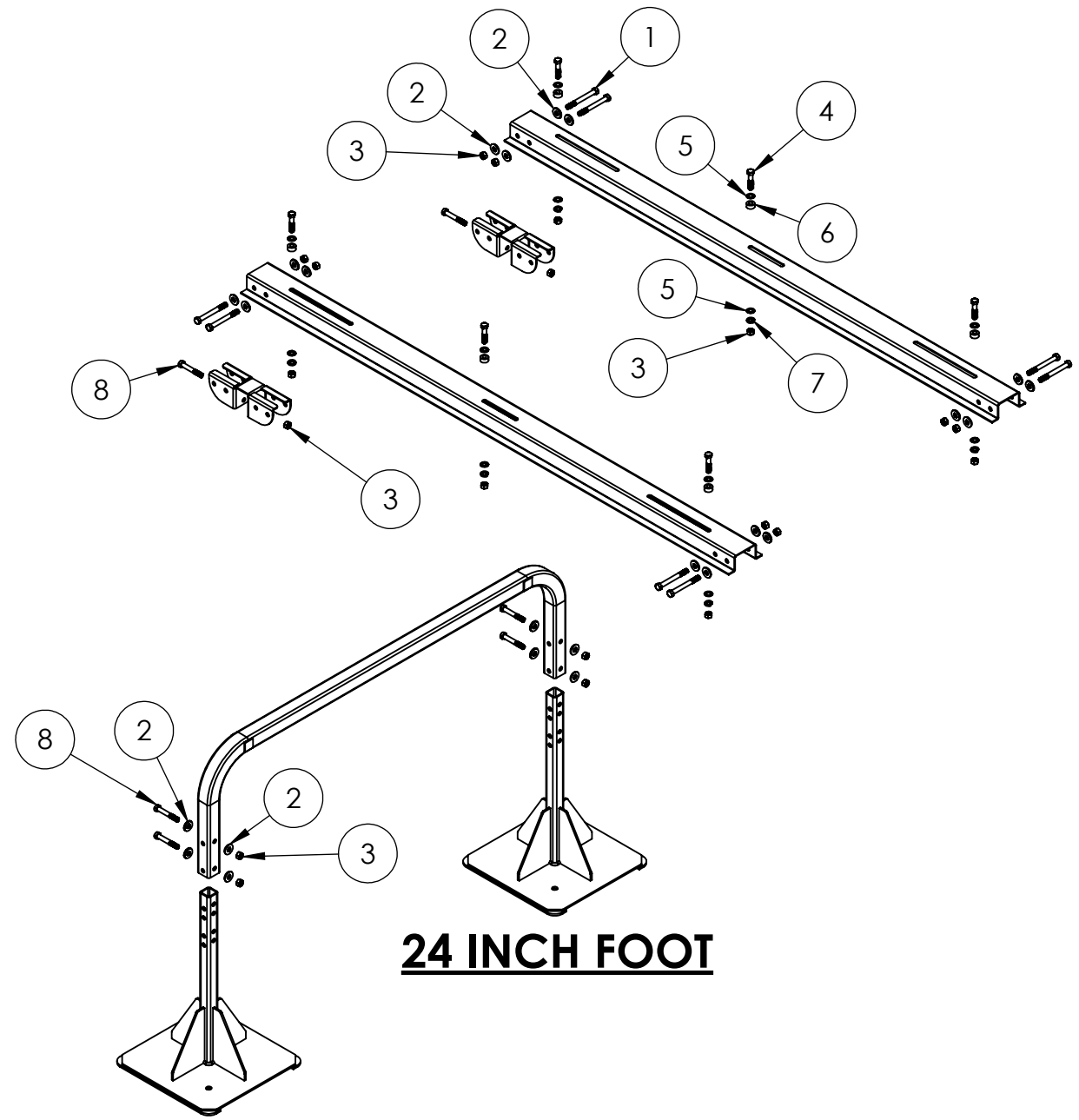


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ASSEMBLY: SUPERSTANDS	WEIGHT: -NA-
DWG. NO. FL-22415.2	REV: R1
DESCRIPTION:	SHEET 14 OF 21



Randall Bachtel



24 INCH FOOT

CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSSB48-24EXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB48-24MEXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-24EXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB62-24MEXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB74-24EXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT
QSSB74-24MEXT	3/8-16X3.5 IN GALVANIZED BOLT	3/8 IN BONDED WASHER	3/8-16 GALVANIZED HEX NUT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN GALVANIZED WASHER	1X3/8X3/8 IN RUBBER WASHER	3/8 IN SPLIT WASHER GALVANIZED	3/8-16X2 1/2 GALVANIZED BOLT

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.XXX = ±0.005	[.XX = ±0.13]

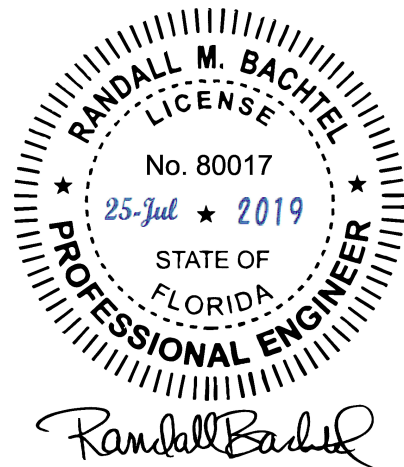
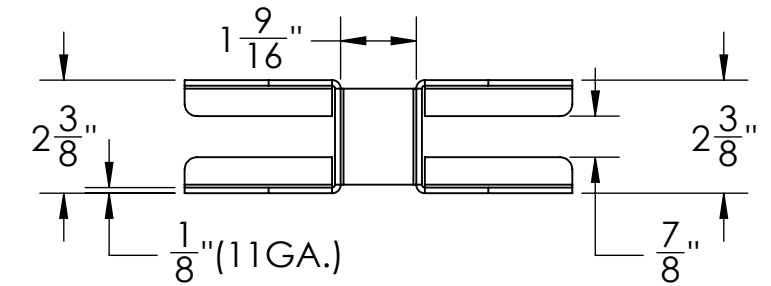
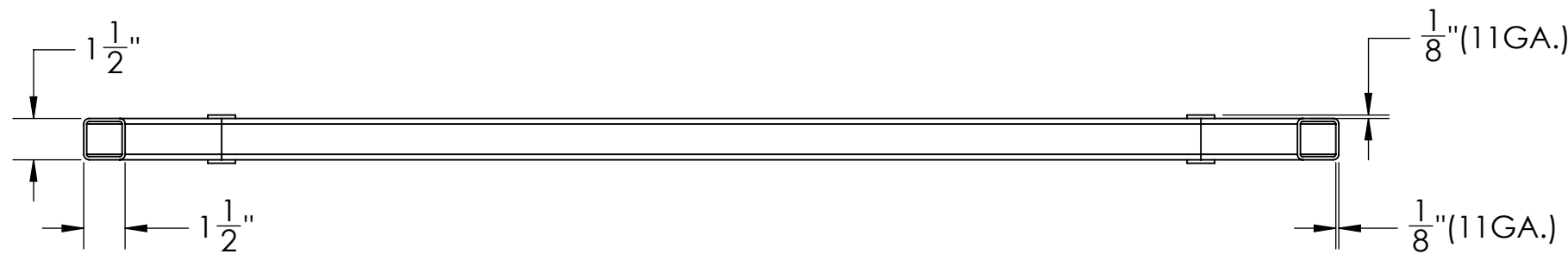
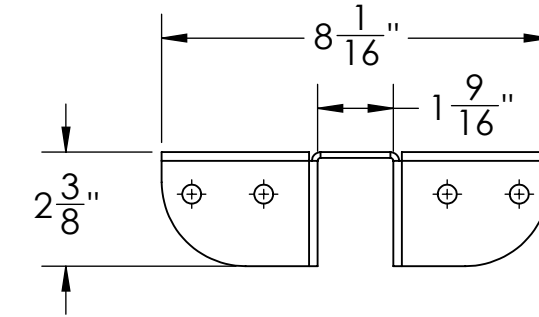
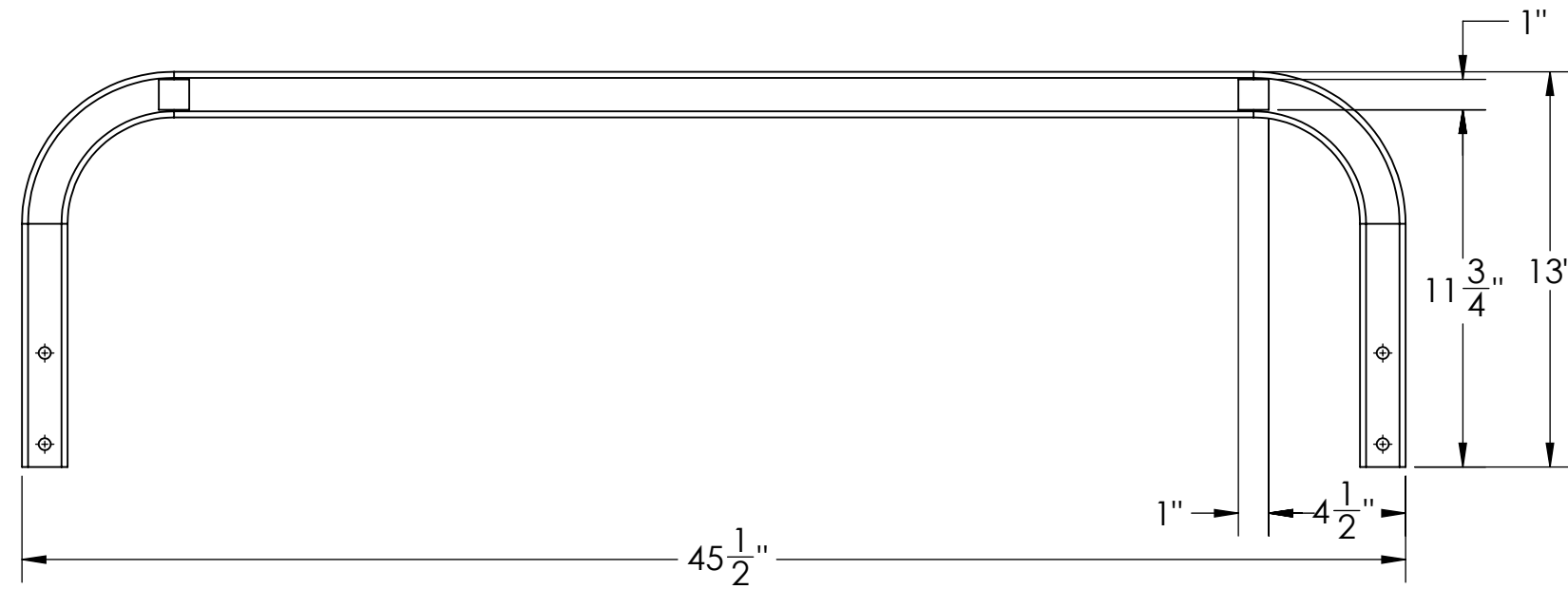
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ASSEMBLY: SUPERSTANDS
 DWG. NO. FL-22415.2
 DESCRIPTION

WEIGHT
 -NA-
 REV.
R1
 SHEET
 15 OF 21



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]
.XX = ±0.01	[.X = ± 1.3]
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	DESCRIPTION	

4

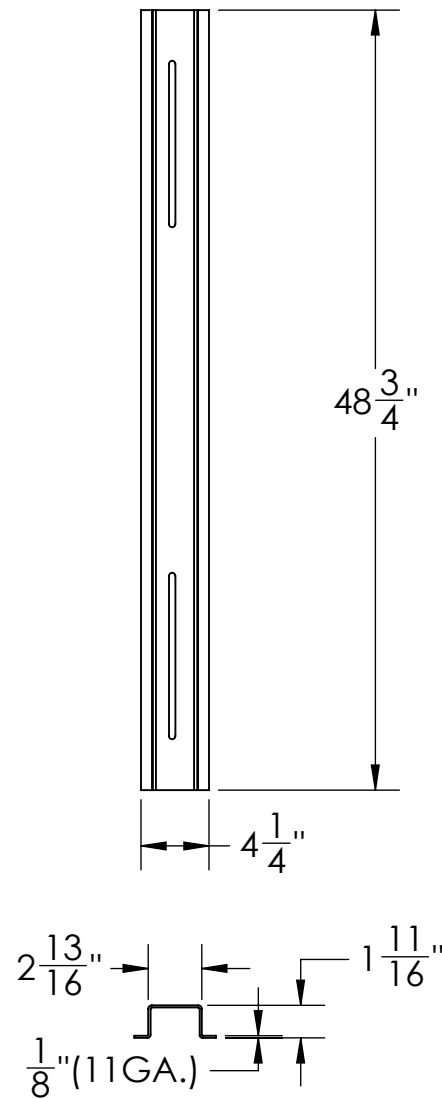
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2

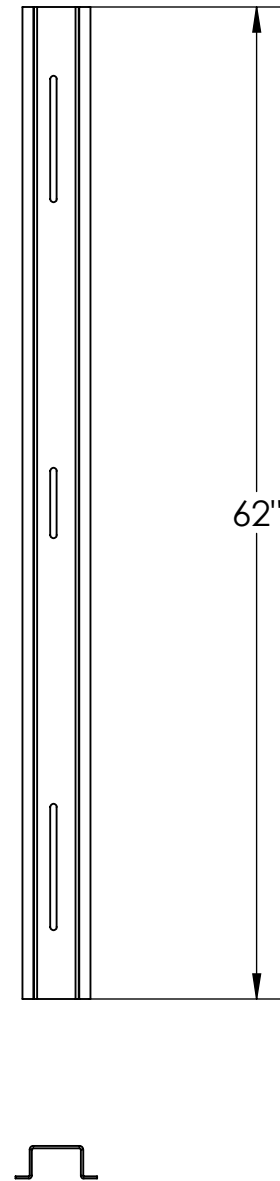
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B

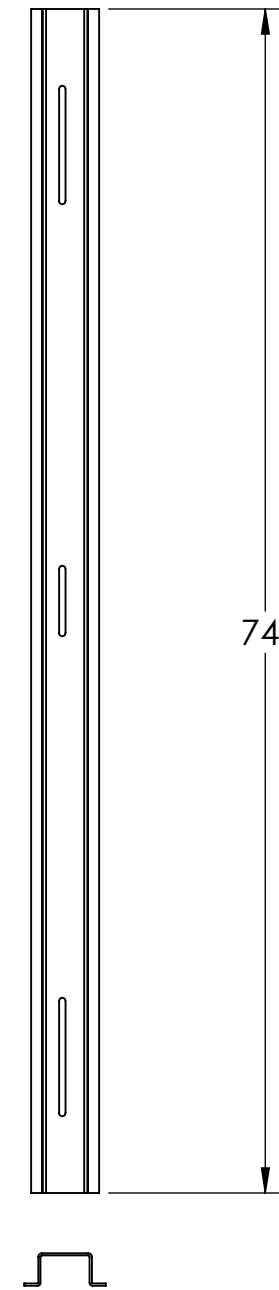
B



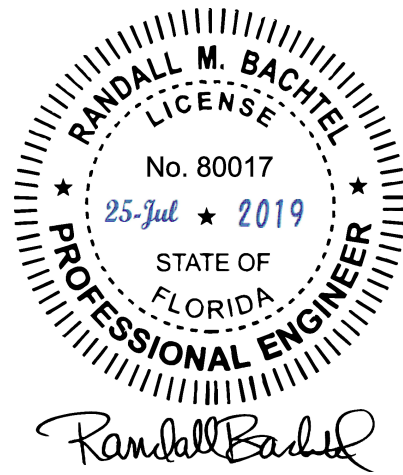
48 IN RAIL



62 IN RAIL



74 IN RAIL



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.

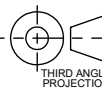
These are all per: American Institute of Steel Construction, AISC - FBC 2214.3

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 42KSI

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES (MILLIMETERS)	
TOLERANCES ARE ANGLES ±1.0° FRACTIONAL SIZES X/16	
INCHES	[MILLIMETERS]
.X = ±0.1	[X = ± 2.5]
.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ±0.13]



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4

3

2

1

A

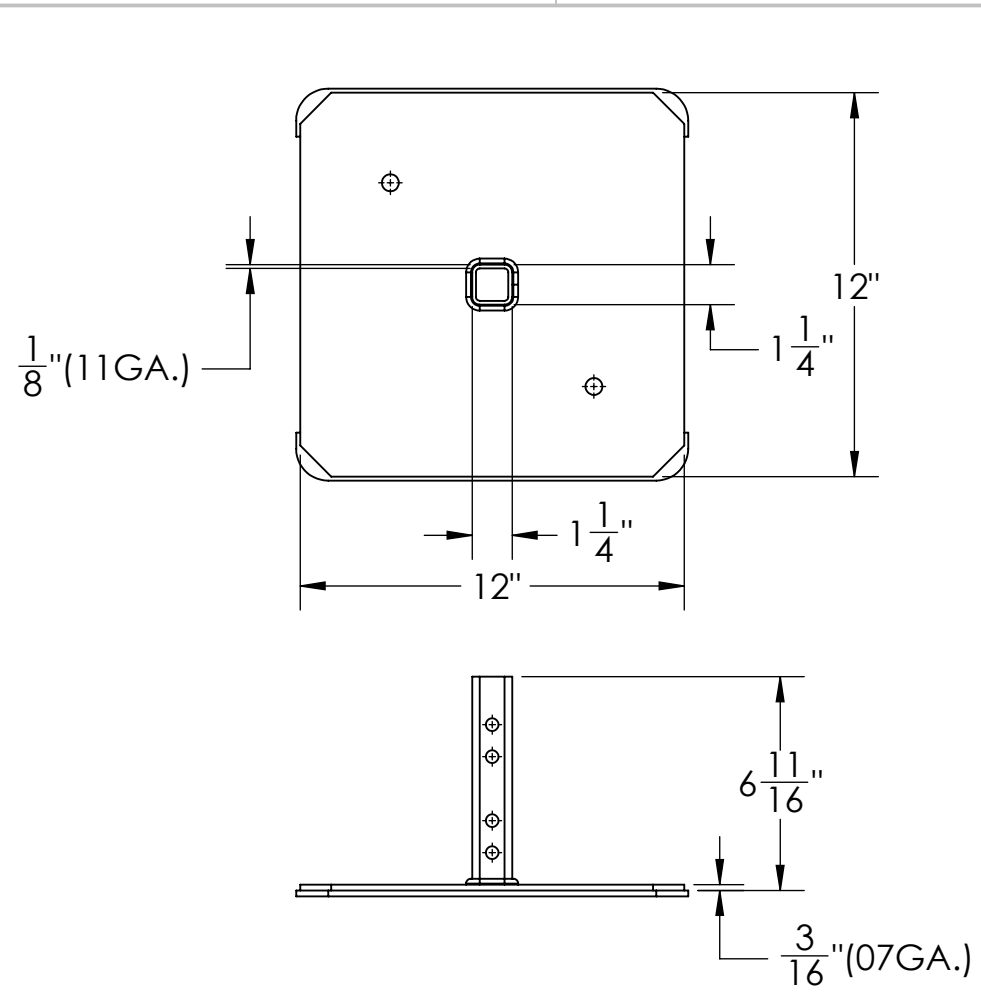
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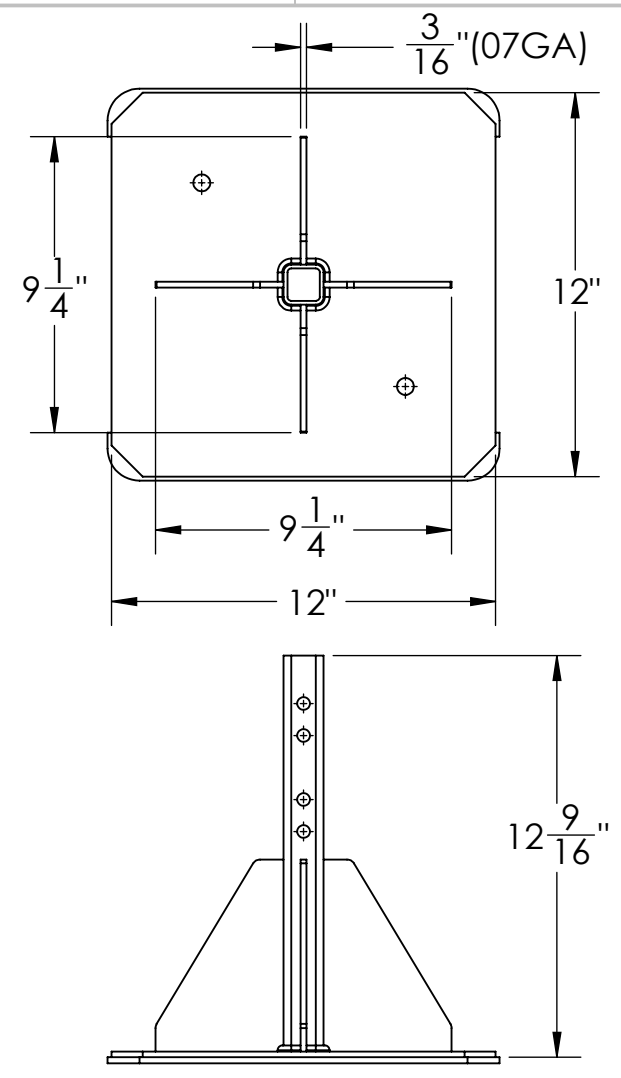
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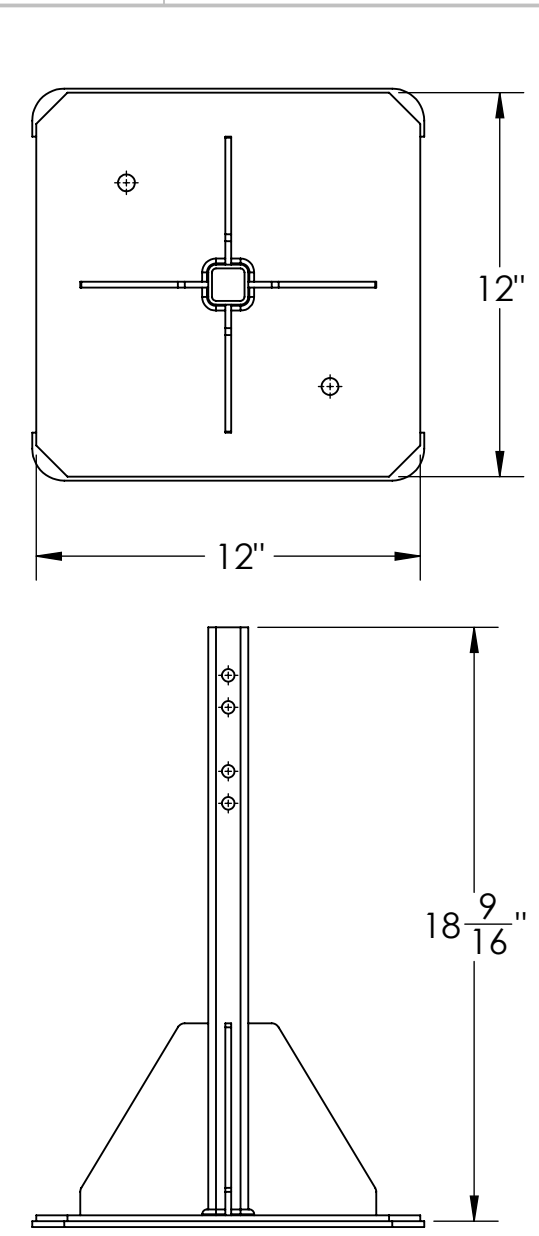
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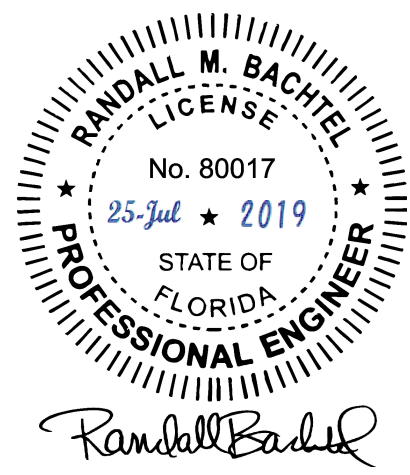
12 IN FOOT



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:
 ASTM A500 Grade B or C 1-1/4" Square Structural Tubing - 11 ga. and 1-1/2" Square Structural Tubing - 11 ga.
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 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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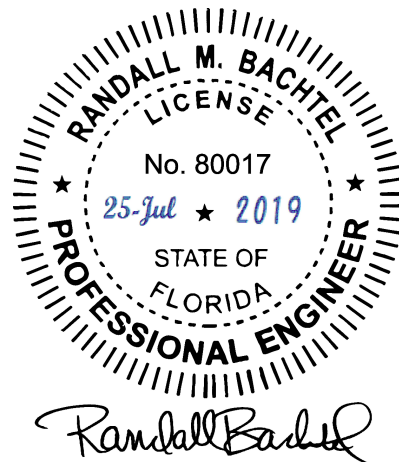
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3

2

1

Old Quicksling Model	Rail Combination	New Model Name
QSSS1003	A	QSSB48
QSSS1004	B	QSSB48
QSSS1005	C	QSSB74
QSSS1006	A+A	QSSB48+QSSB48EXT
QSSS1007	A+C	QSSB48+QSSB74EXT
QSSS1008	B+B	QSSB48+QSSB48EXT
QSSS1009	B+C	QSSB48+QSSB74EXT
QSSS1010	C+C	QSSB74+QSSB74EXT
QSSS1011	C+A+A	QSSB74+(2)QSSB48EXT
QSSS1012	A+B+C	QSSB74+(2)QSSB48EXT
QSSS1013	A+C+C	QSSB48+(2)QSSB74EXT
QSSS1014	B+C+C	QSSB48+(2)QSSB74EXT
QSSS1015	C+C+C	QSSB74+(2)QSSB74EXT
QSSS1016	A+A+A	QSSB48+(2)QSSB48EXT
QSSS1017	A+B+B	QSSB48+(2)QSSB48EXT
QSSS1018	B+B+B	QSSB48+(2)QSSB48EXT
QSSS1019	D	QSSB62
QSSS1020	D+D	QSSB62+QSSB62EXT
QSSS1021	D+D+D	QSSB62+(2)QSSB62EXT
QSSS1022	A+B	QSSB48+QSSB48EXT
QSSS1023	A+A+B	QSSB48+(2)QSSB48EXT
QSSS1024	A+D	QSSB48+QSSB62EXT
QSSS1025	A+D+D	QSSB48+(2)QSSB62EXT
QSSS1026	A+A+D	QSSB62+(2)QSSB48EXT
QSSS1027	A+A+D+D	QSSB48+QSSB48EXT+(2)QSSB62EXT
QSSS1028	B+B+D	QSSB62+(2)QSSB48EXT
QSSS1029	C+D+B	QSSB74+QSSB62EXT+QSSB48EXT
QSSS1030	B+D	QSSB48+QSSB62EXT
QSSS1031	B+B+C	QSSB74+(2)QSSB48EXT



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 FRACTIONAL SIZES X/Y ±1/64

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	<small>DESCRIPTION</small>	

FBC 1620.6 Rooftop structures and equipment.

The lateral force on rooftop structures and equipment with A_f less than $(0.1B_h)$ located on buildings of all heights shall be determined from Equation 29.5-1 of ASCE 7 in which the value of G_{cf} shall be taken as 3.1. G_{cf} shall be permitted to be reduced linearly from 3.1 to 1.1 as the value of A_f is increased from $(0.1B_h)$ to (B_h) . 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 $G_{cf} = 1.5$ and A_f is replaced by the horizontal projected area, A_r , of the rooftop structure or equipment.

For the uplift force G_{cf} shall be permitted to be reduced linearly from 1.5 to 1.0 as the value of A_r is increased from $(0.1B_L)$ to (B_L) .

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 $q_z = 0.00256 * K_z * K_{zt} * K_d * V^2 = 63.45 \text{ psf}$

where $K_z = 0.85$, $K_{zt} = 1.00$, $K_d = 0.90$

LATERAL Direction For rooftop structures and equipment with A_f less than $(0.1B_h)$. $G_{Cr} = 3.1$

VERTICAL Direction For rooftop structures and equipment with A_f less than $(0.1B_h)$. $G_{Cr} = 1.5$

LATERAL FORCE due to Wind Load Only (ASCE 7-10 Equation 29.5-2) $F_h = q_h(G_{Cr})A_f = 196.7 \text{ psf}$, where $G_{Cr} = 3.1$

VERTICAL FORCE (UPLIFT) Wind Load Only (ASCE 7-10 Equation 29.5-3) $F_h = q_h(G_{Cr})A_f = 95.2 \text{ psf}$, where $G_{Cr} = 1.5$

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 QSSB48 / 62 / 74 AND ITS QSSB48 / 62 / 74 EXTENSION 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.

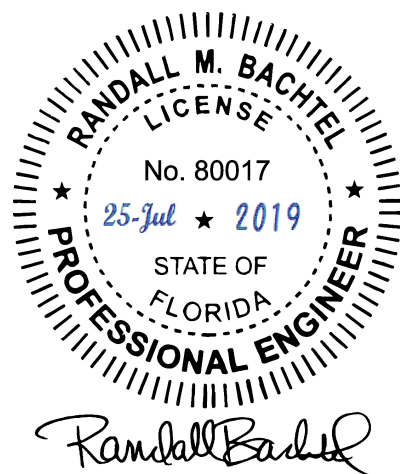
MAXIMUM DOWNWARD FOOT REACTION (PER FOOT) ON SUPPORTING ROOF OR CURB IS 300 LBS. OR LESS (IBC Eq. 16-12)

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 $f'_c > 3000 \text{ psi}$ (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, $G = 0.42 \text{ Min.}$, $C_d = 1.6$ – 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 $\pm 1.0^\circ$
 FRACTIONAL SIZES $X/Y \pm 1/64$

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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	DWG. NO. FL-22415.2	REV. R1
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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:	Minimum				Maximum				Completion Date:
29 March 2018	Mean				Mean				19 April 2018
	Minimum	Maximum	Arithmetic	ASTM	ASTM				
	(mm's)	(mm's)		D610/D714:	D7091:				
	Rust/Blister				Film				
	Field Rating				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					
ASTM D714		ISO 4628-2		ASTM D610			ISO 4628-3		
Rating Letter	Rating	Rating Number	Rating	Rust Grade	Percent of Surface Rusted (Ranges)	Visual Examples			Rust Grade
n/a	None	0	None			Spot	General	Pinpoint	
n/a	n/a	1	Very Few	10	≤ 0.01%	10	10	10	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	
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
				5	>1.0% to 3.0%	5S	5G	5P	
				4	>3.0% to 10.0%	4S	4G	4P	Ri 4
				3	>10.0% to 16.0%	3S	3G	3P	
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						
4	S4	Medium	2-3 mm						
2		Large	3-5 mm						
0	S5	Very Large	>5mm						

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.

Physical Testing Laboratory Report



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Scribe Rating Key			
Scribe Ratings Numbers		Representative Creepage From Scribe "One-sided"	
ASTM D1654	ISO 4628-8	Millimeters	Inches
Mean Rating Number	Corrosion Grade		
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.

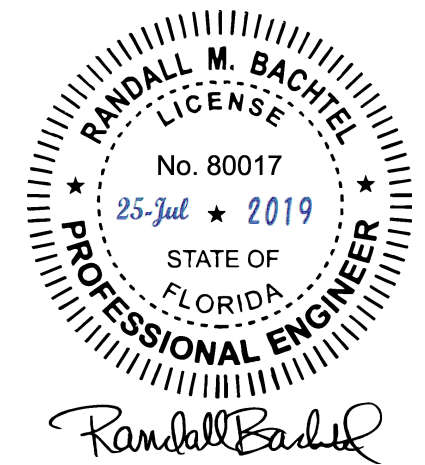
1522.3.3

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 SuperStand (QSSB48 / 62 / 74 and its variants) as part of FL 22415-1 submittal is 48.0 inches.

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

Adhesion Classifications			
ASTM D3359		ISO 2409	Percent Area Removed
Method A	Method B		
5A	5B	0	0%
4A	4B	1	Less Than 5%
3A	3B	2	5% to 15%
2A	2B	3	15% to 35%
1A	1B	4	35% to 65%
0A	0B	5	Greater than 65%



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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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