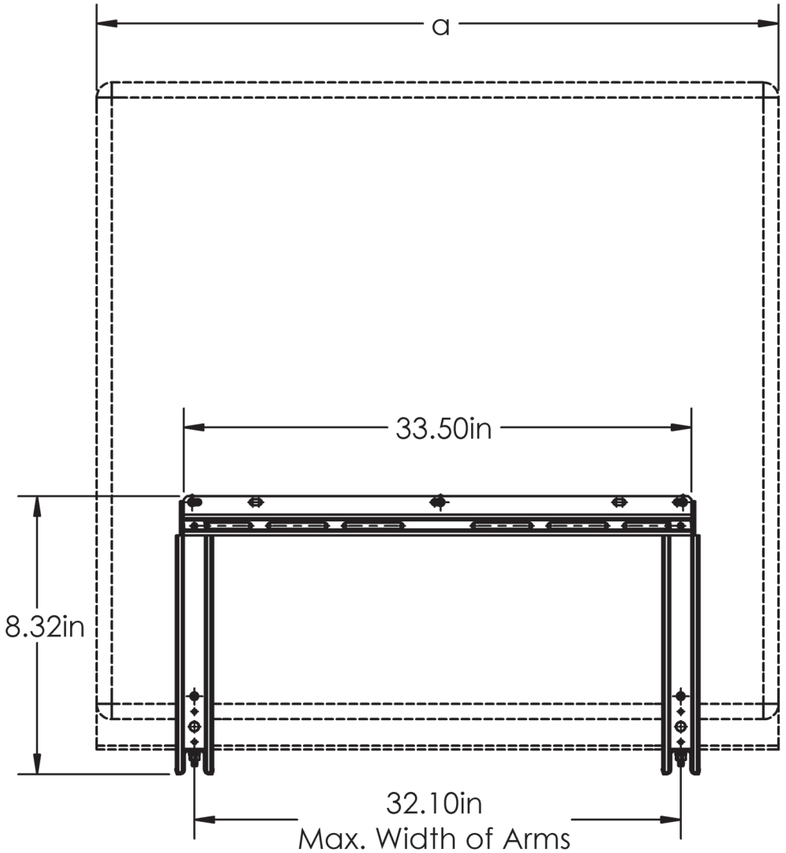
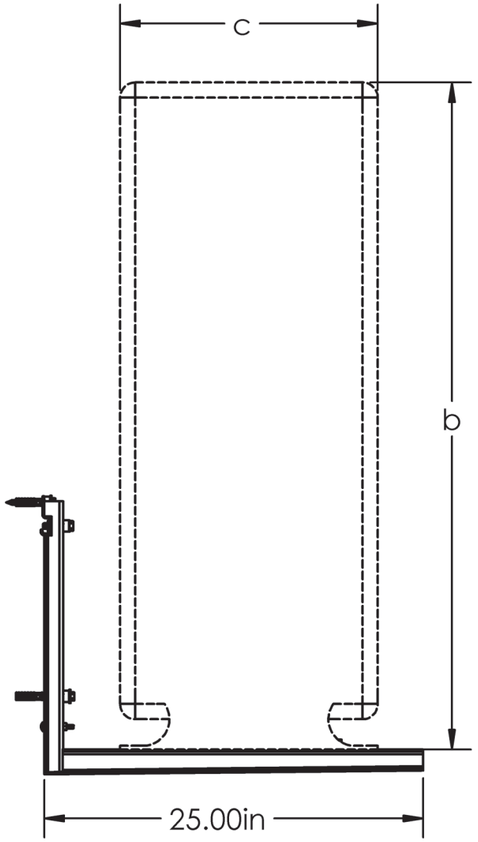
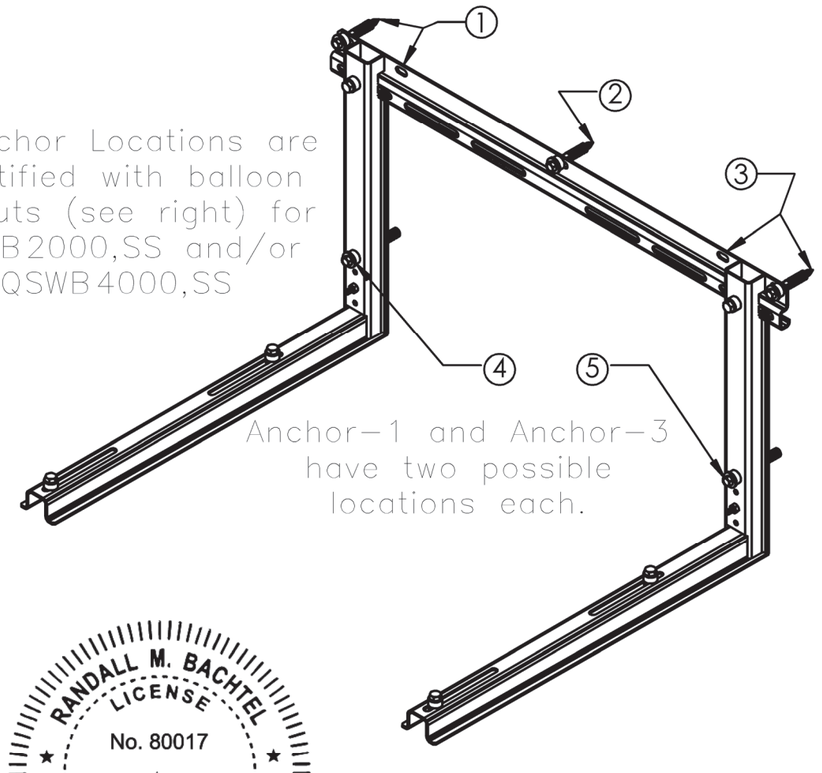




5 Anchor Locations are identified with balloon callouts (see right) for QSWB2000,SS and/or QSWB4000,SS



Anchor–1 and Anchor–3 have two possible locations each.

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TABLE–3 CONDENSER UNIT (MAXIMUM) SPECIFICATIONS

Item	QSWB2000 QSWB2000SS	QSWB4000 QSWB4000SS
Max. Length (a) in.	42	48
Max. Height (b) in.	48	54
Max. Depth (c) in.	20	20
Max. Frontal Area (a x b) sq. in.	2020	2300
Max. Lateral Area (b x c) sq. in.	960	1100
Max. Weight (lbs.)	350	500

QSWB Part Number Notation

Diversitech QSWB4000 is equivalent to QSWB2000M–1. QSWB2000 and QSWB4000 each come in stainless steel versions. These two part numbers have a suffix "SS" Ex. QSWB2000SS and QSWB4000SS

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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

DIVERSITECH

MATERIAL: AISI 1045 Steel / Sy >= 59ksi
DWG. NO. A/C Condensing Unit Wall Bracket Systems
DESCRIPTION Models: QSWB2000, QSWB2000SS, QSWB4000 & QSWB4000SS

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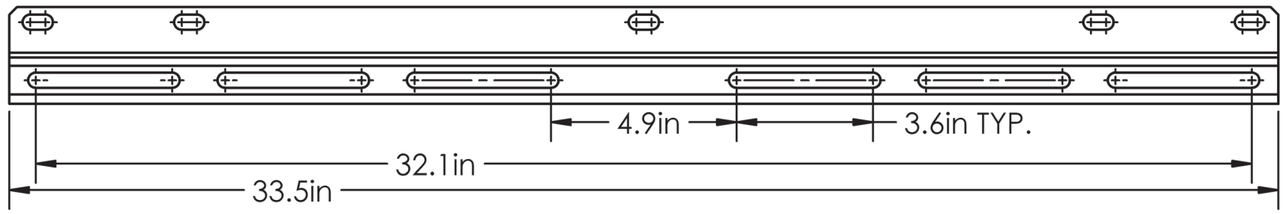
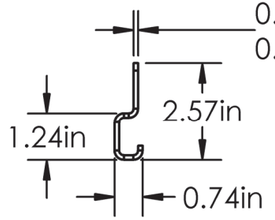
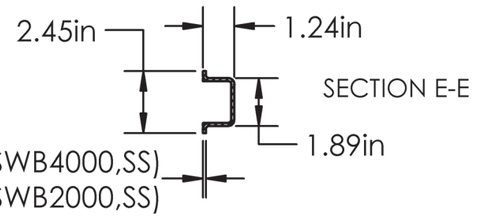
QSWB2000,SS and QSWB4000,SS Horizontal Glide Track







QSWB2000,SS and QSWB4000,SS Wall Bracket Systems are dimensionally identical except for the sheet metal thickness used to form each of the components.
QSWB2000 uses 14ga. stock. QSWB4000 uses 11ga. stock.

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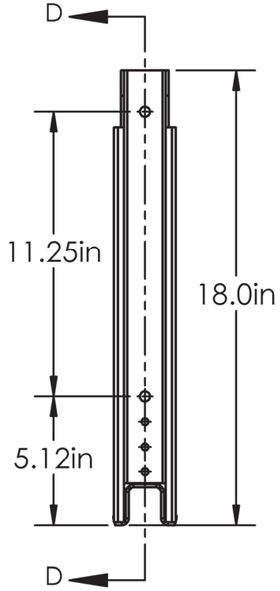
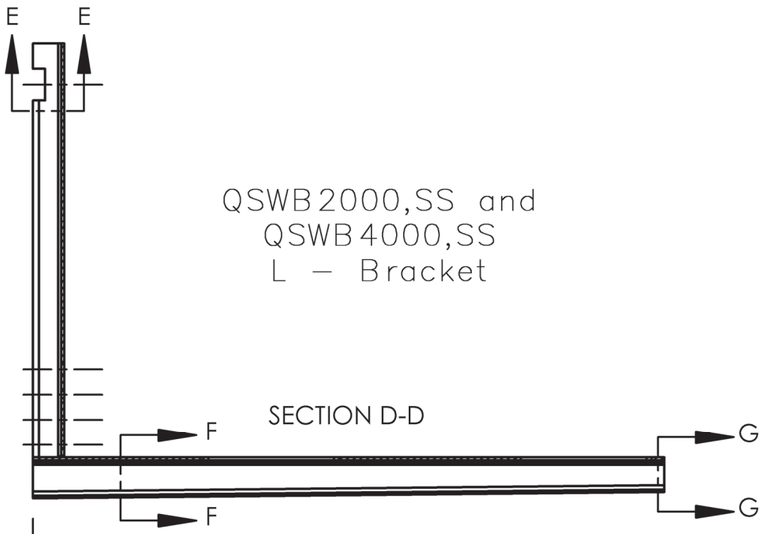
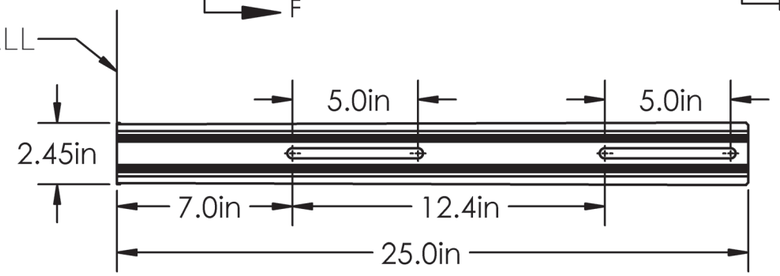


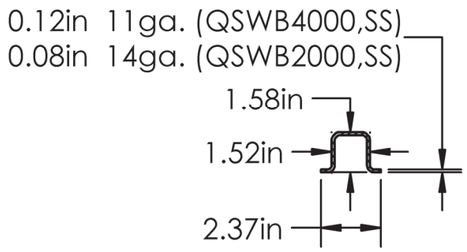
QSWB2000,SS
QSWB4000,SS
Bracket
Mounting
Face



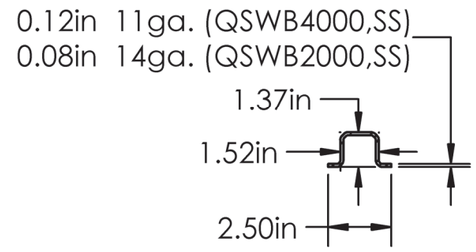
QSWB2000,SS and
QSWB4000,SS
L – Bracket



QSWB2000,SS/QSWB4000,SS
Equipment Mounting Face



SECTION F-F



SECTION G-G

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [MILLIMETERS] TOLERANCES ARE: ANGLES ±1.0° FRACTIONAL SIZES X/Y ±1/64 INCHES .X = ±0.1 .XX = ±0.01 .XXX = ±0.005 [MILLIMETERS] [X = ± 2.5] [.X = ± 1.3] [.XX = ±0.13] THIRD ANGLE PROJECTION	DIVERSITECH	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	MATERIAL: AISI 1045 Steel / Sy >= 59ksi DWG. NO. A/C Condensing Unit Wall Bracket Systems DESCRIPTION Models: QSWB2000, QSWB2000SS, QSWB4000 & QSWB4000SS	REV A 01JAN18 SHEET 2 OF 5

GENERAL NOTES:

1) All four (4) wall bracket models characterized in this document: QSWB2000, QSWB2000SS, QSWB4000 & QSWB4000SS are designed to conform to the requirements as determined in the Florida Building Code – 6th Edition (2017) and ASCE7-10.
2) These four products/models are all designed for use within and outside of High Velocity Hurricane Zones, including Miami/Dade.
3) Building structure must be designed by licensed professional engineer to carry the loads applied from the selected wall bracket.
4) Wall bracket materials shall be AISI 1045 steel or equivalent or stronger with Sy >= 59ksi.
5) All anchors used to mount wall bracket to surrounding structure shall be as specified in these drawings, any substitutions shall be approved by a licensed professional engineer.
6) All hardware used (screws/fasteners) shall be corrosion resistant.
7) Alterations or additions to this document are not permitted.

QSWB Wall Bracket Anchor Schedule

Each of the four QSWB Wall Bracket Systems covered in this document are provided with all the required hardware to build the wall bracket assembly, Anchors are also provided to mount the wall bracket to the building structure including: expansion anchors for concrete and lag screws for wood.
Mounting each QSWB bracket to the supporting structure requires 5 anchors total. See isometric view on pg-1 of this document.
3 anchors are used for the horizontal mounting rail and 1 each are used at the bottom of each mounting "L-Bracket".
Each of the QSWB sizes/models including: QSWB2000, QSWB2000SS, QSWB4000, QSWB4000SS will use the hardware that comes with the assembly / kit.
Anchor substitutions (if desired) can be made using the Anchor schedule on pg-4.
Any deviations from these anchor schedules must be approvved by a licensed professional engineer.

QSWB WALL BRACKET – LOAD TRANSFER CALCULATIONS TO SUPPORTING STRUCTURE (MAX WIND EFFECT)

The maximum pullout requirement (per anchor) is 1750 lbs. and the maximum shear requirement (per anchor) is 420 lbs. for any of the four (4) QSWB Series Wall brackets covered in this document. 117.1 PSF Max. Wind Pressure, 500 lb. Max. Condenser Payload, S.F. = 2.0

TABLE-2 WIND / VELOCITY PRESSURE CALCULATIONS
FOR ALL WALL BRACKET DESIGNS

Max. Building Height (ft)	30	30	30	30	50	50	50	50	100
Risk Category	II	II	III/IV	III/IV	II	II	III/IV	III/IV	II
Exposure	C	D	C	D	C	D	C	D	C
Max. Wind Speed (MPH)	180	180	200	200	180	180	200	200	180
Max. Wind Pressure (psf)	63.1	86.2	90.4	107	81.4	94.8	100.5	117.1	94.1

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FRACTIONAL SIZES X/Y ±1/64
INCHES: .X = ±0.1, .XX = ±0.01, .XXX = ±0.005
[MILLIMETERS]: [X = ± 2.5], [.X = ± 1.3], [.XX = ±0.13]
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MATERIAL: AISI 1045 Steel / Sy >= 59ksi
DWG. NO. A/C Condensing Unit Wall Bracket Systems
DESCRIPTION Models: QSWB2000, QSWB2000SS, QSWB4000 & QSWB4000SS

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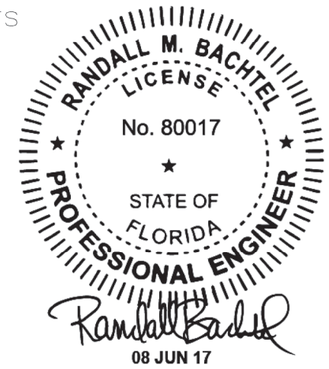
QSWB (ALTERNATE) Wall Bracket Anchor Schedule

QSWB2000, QSWB2000SS, QSWB4000, QSWB4000SS each use 5 anchors to attach the wall bracket to the supporting structure. Hardware is included with each QSWB system. The anchors below can be used in place of the anchors provided. Any deviations from these anchor schedules must be approvved by a licensed professional engineer.



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"

For f'c > 2000 PSI (13.8 MPa) Grout–Filled CMU – 50' BLDG – Risk Cat. II, III & IV – Exposure C & D		
For 8–inch Lightweight, Medium–Weight and Normal–Weight Hollow CMU – 30' BLDG – Risk Cat. II – Exposure C		
For 8–inch Lightweight, Medium–Weight and Normal–Weight Grout–Filled CMU – 40' BLDG – Risk Cat. II – Exposure C		
Anchor Size (Select Any Below)	Minimum Embedment	Minimum Edge Distance
3/8" Titen HD anchors	3 – 3/4"	12"
3/8" Strong–Tie Strong Bolt	2"	12"
3/8" Hilti KWIK Bolt TZ	2 – 5/16"	12"
3/8" Heavy Duty Tapcon	2 – 1/2"	12"
5/16" Heavy Duty Tapcon	1 – 3/4"	12"

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"

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FRACTIONAL SIZES X/Y ±1/64

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THIRD ANGLE PROJECTION

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MATERIAL: AISI 1045 Steel / Sy >= 59ksi
DWG. NO. A/C Condensing Unit Wall Bracket Systems
DESCRIPTION Models: QSWB2000, QSWB2000SS, QSWB4000 & QSWB4000SS

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QSWB Wall Mounting Brackets

Installation Instructions – Professional Installation Required

1. Ensure that the supporting wall structure that the bracket will be mounted on is capable of supporting the weight of the air conditioner unit and bracket and can support the anchor loads as indicated on the QSWB specification sheet, Pgs. 1 & 3.

2. Use the correct size wall mounting bracket (QSWB2000 or QSWB4000) to match up with the condenser unit weight. See Pg–1.

3. Remove the three wall mounting bracket parts and bag of hardware from the box.

4. Mount the horizontal glide track to the wall using 3 of the 5 anchors. Lag screws for wood and expansion anchors for concrete. Alternate anchors can be used by following the anchor schedule found in the QSWB specification sheet, Pg–4.

5. Mount the L–brackets to the guide track by using the hardware provided. (NOTE: Insert the 1 □ x 3/8□ bolts and washers thru the L–bracket into the spring nuts).

6. Insert ¼–20 carriage bolts with nuts through the bottom side of the L–bracket for equipment mounting. Place rubber washer (vibration and noise reducers) and nut to the top of the L–bracket equipment mounting bar.

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INCHES	[MILLIMETERS]
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THIRD ANGLE PROJECTION

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DWG. NO. A/C Condensing Unit Wall Bracket Systems

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DESCRIPTION Models: QSWB2000, QSWB2000SS, QSWB4000 & QSWB4000SS

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