

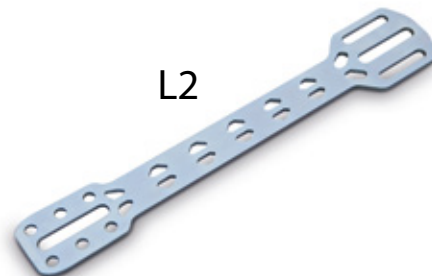
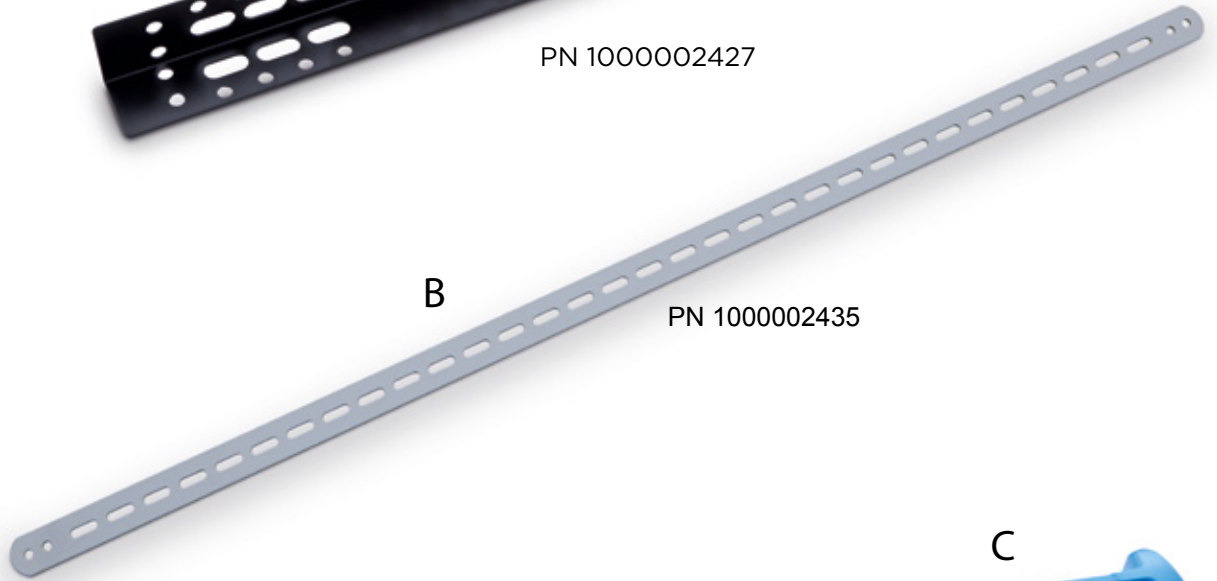
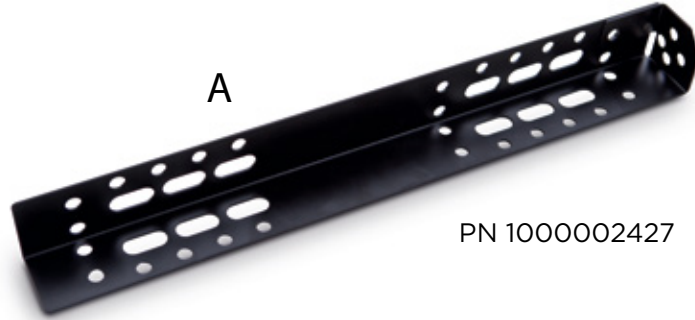


ASSEMBLY & INSTALLATION INSTRUCTIONS REVISION 1



EXPAND[™]
www.sortimo.knapheide.com

MOUNTING ITEMS



HARDWARE



E
M6

PN 6000002069



F
M6

PN 71003884



J
PN 6000001148



G

Part supplied with blue frame grips



PN 71009864



I

PN 71003987



H

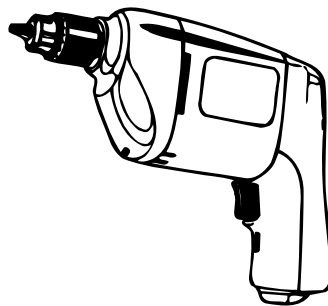
PN 71003988

* Some shelving staxx may contain extra hardware

TOOLS



PH2



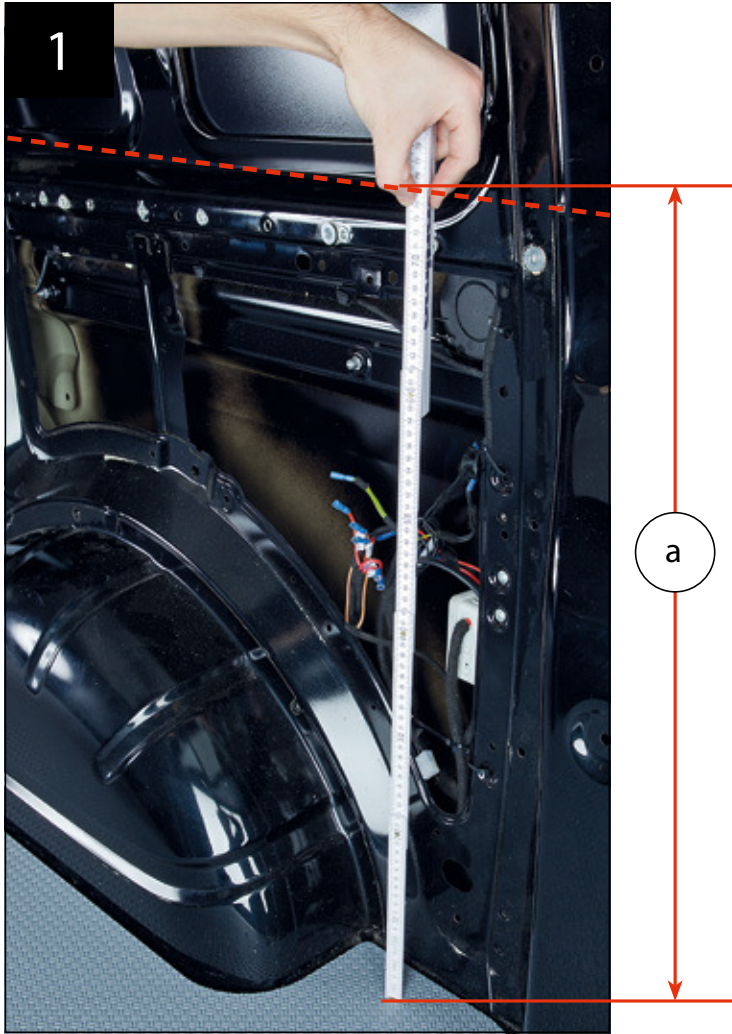


Exxpand Installation summary:

1. Exxpand block assembly
Reference steps 1-7
2. Place the Exxpand block in the vehicle and place it in the best position for EcoFix bracket mounting
Refer to step 1 for specific guidance on horizontal braces
3. Bend EcoFix mounting brackets for the side wall fastening
Refer to steps 8-10
4. Mark the floor and wall mounting positions
Refer to step 10 for floor mounting
5. Remove Exxpand block from vehicle
6. Drill all marks on vehicle floor and side wall mounting positions
7. Insert rivnuts in vehicle floor & wall
Refer to step 10 for floor
8. Place the Exxpand block back in the vehicle
9. Align Exxpand block according to the floor and wall mounting points.
10. First, install floor mounting hardware, second install all hardware for side-wall mounting
Refer to steps 10-11



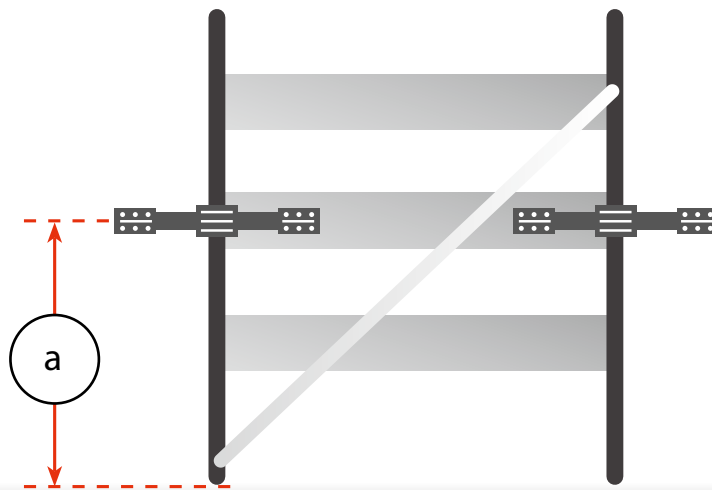
Note: Van specific instructions located on pages 23-24.

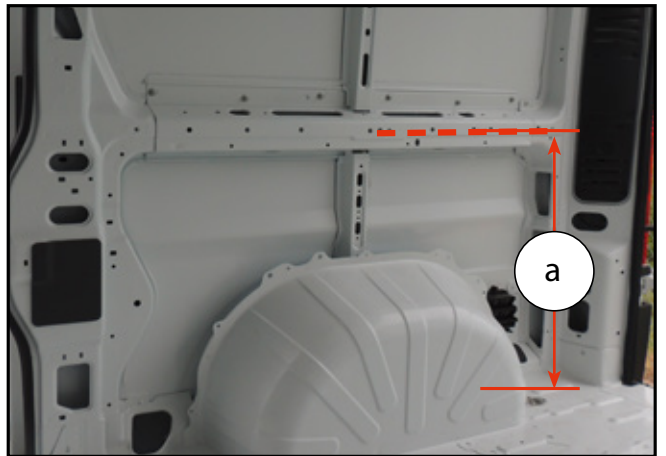
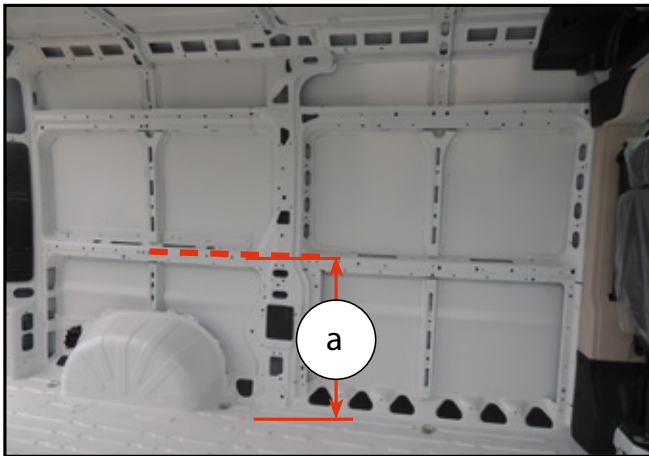
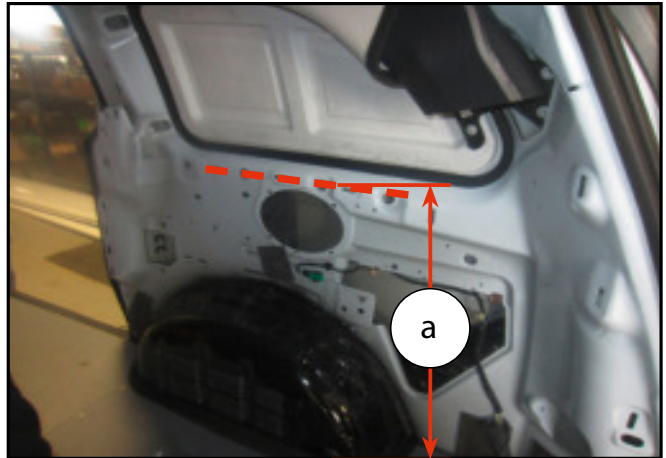
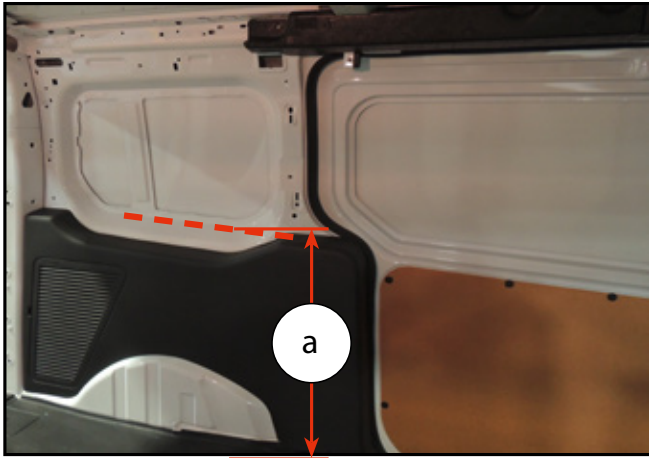


"A" Dimension

The measurement from vehicle floor to a horizontal mounting brace on the vehicle sidewall.

Note: Not all vehicles will have a horizontal mounting option.





When a horizontal mounting brace is unavailable, the vertical bracing will become your primary mounting source. Place the Exxpand unit in a position that allows for secure mounting to vertical braces.





"A" Dimension Shelf

Only attach the shelf to the pultrusion with the side mounting bolts at this time. Leave the rear holes open for mounting purposes (reference page 5).

Top Shelf

Top shelf must be mounted to allow for a minimum of two open holes above for clearance of Sortimo top piece. (See step 6).

Bottom Shelf

Bottom shelf needs to be placed in a way so that it will clear the wheel well.

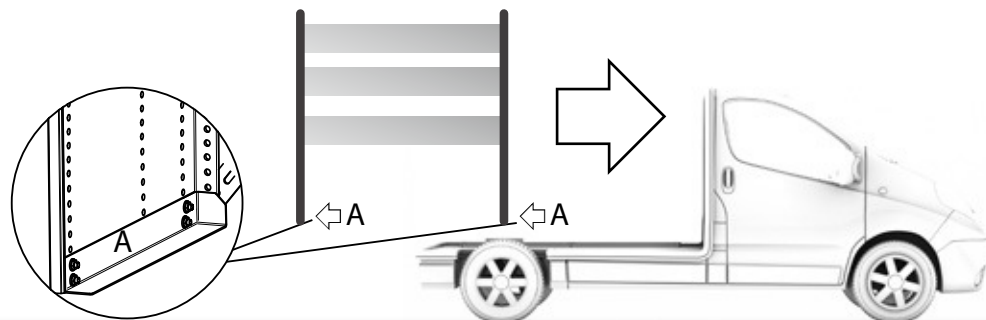


3 PN 1000002427 PN 6000002069 PN 71003884

2x A **8x E** **8x F** 4 10

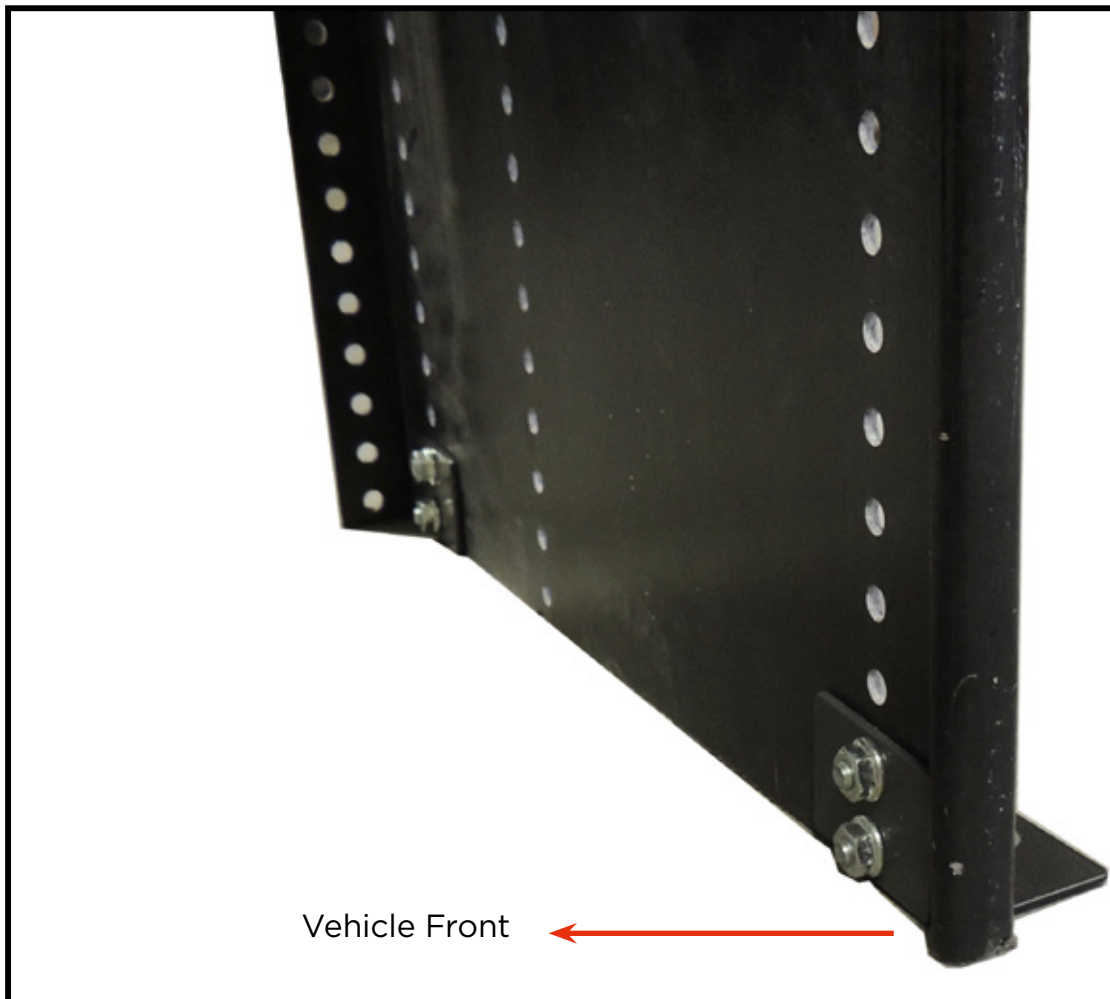


Floor angles should face the front of the vehicle per crash test data depicted in illustration below.





In certain vehicles this will not be possible due to mounting obstructions. When this happens you must use the supplied backing plates in conjunction with the mounting foot that is facing the incorrect way to help strengthen the side wall pultrusion.



The above photo simulates an obstruction not allowing the floor angle to be placed facing forward in its correct position. This shows the placement of the backing plates to help strengthen sidewall pultrusion.

4

PN 1000002435

2x B

4x E
PN 6000002069

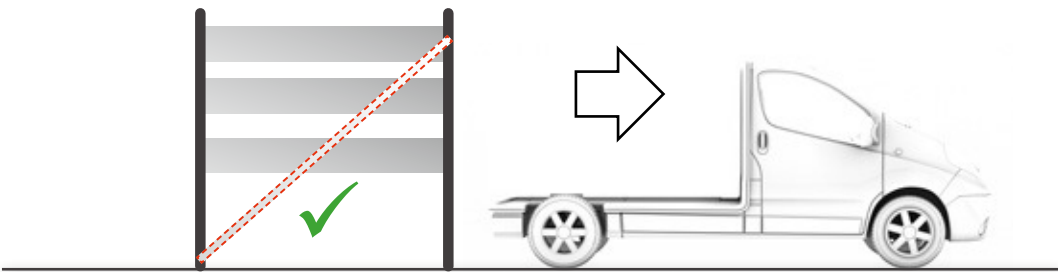
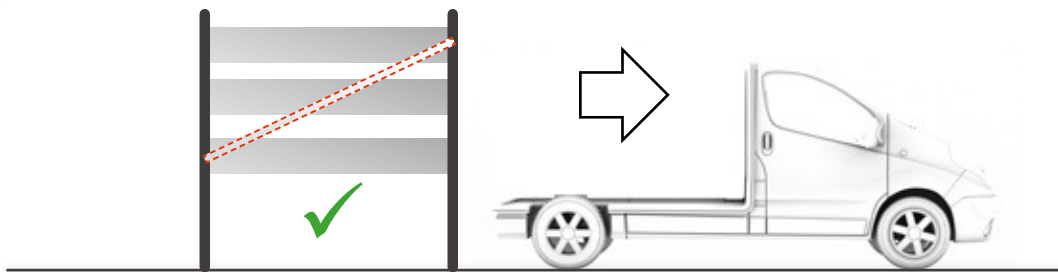
4x F
PN 71003884

4

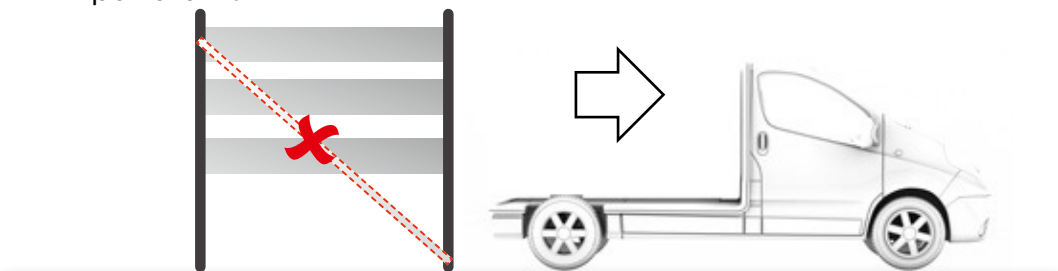
10



Primary Method for ease of installation around wheel well.

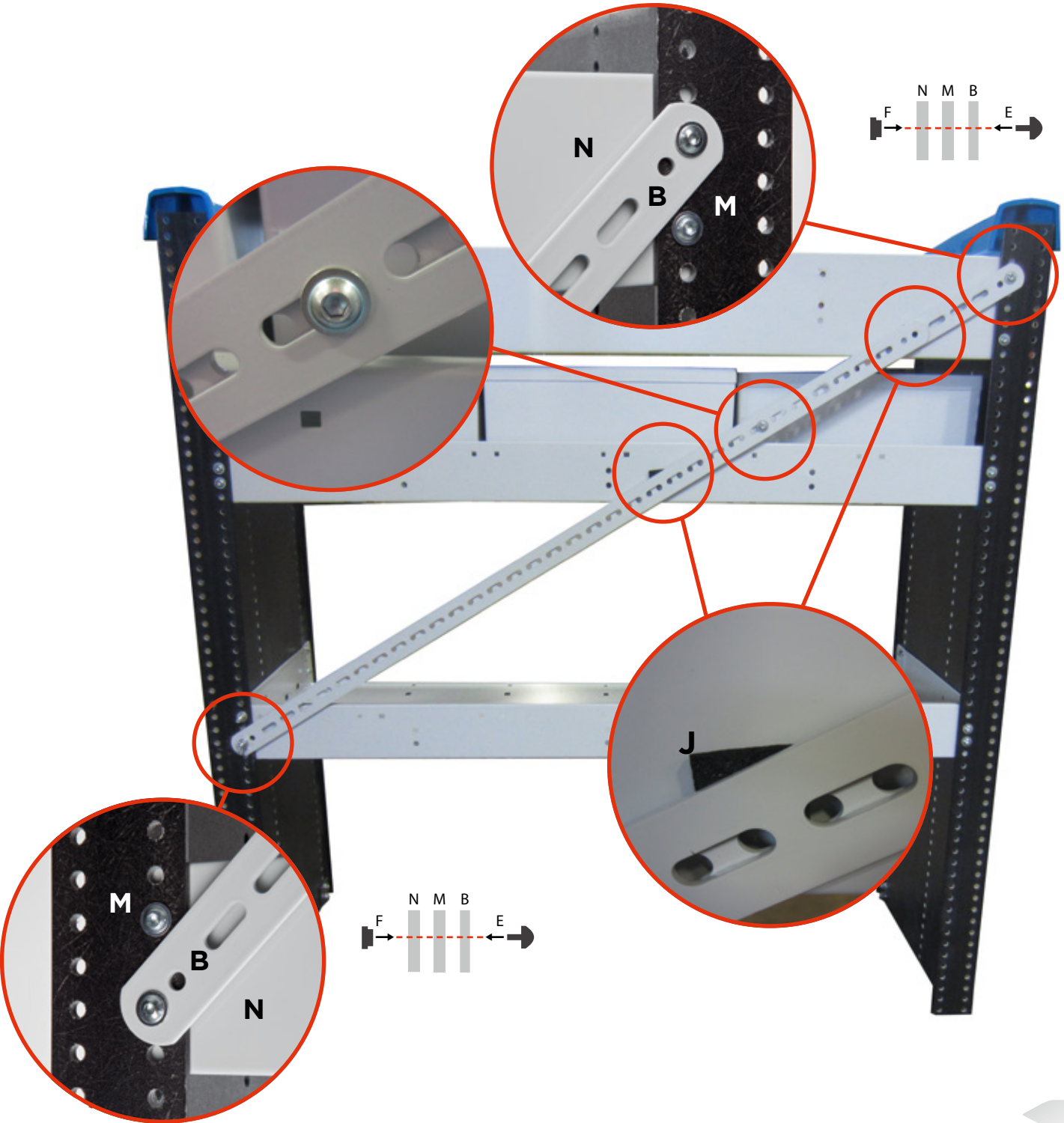


Diagonal brace must always start at the top of the stack from the front of the vehicle descending rearward on the Exxpand unit.



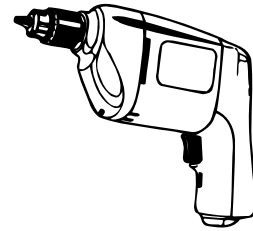
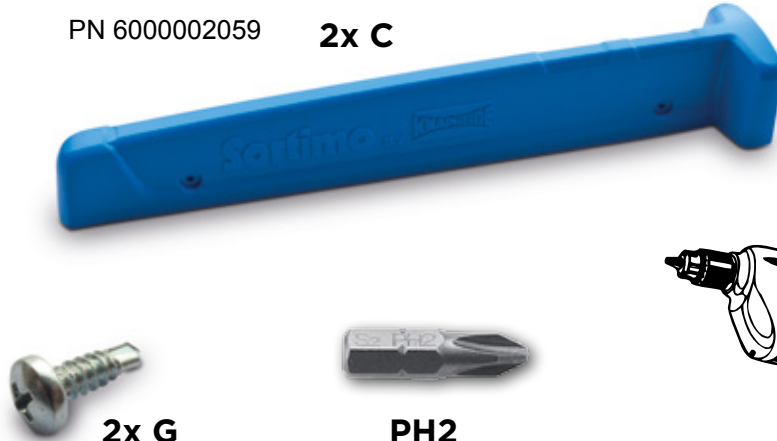
5 PN 600002069 PN 71003884 PN 600001148

8x E 8x F J 4 10



6

PN 6000002059 **2x C**



*Do not over tighten





1. Insert plastic slide into the holes
2. Push it forward as far as it will go
3. Press plastic slide down until it snaps in.

8

EcoFix bracket bending & mounting rules.

L1



PN 100002441

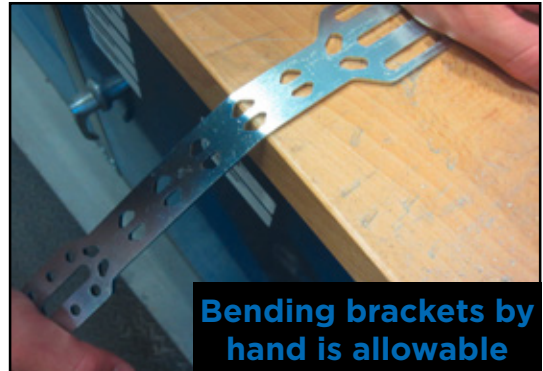
L2



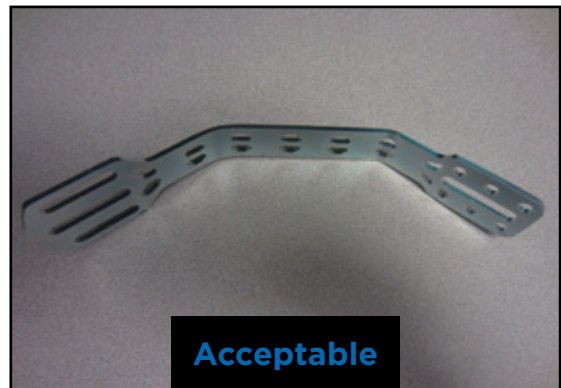
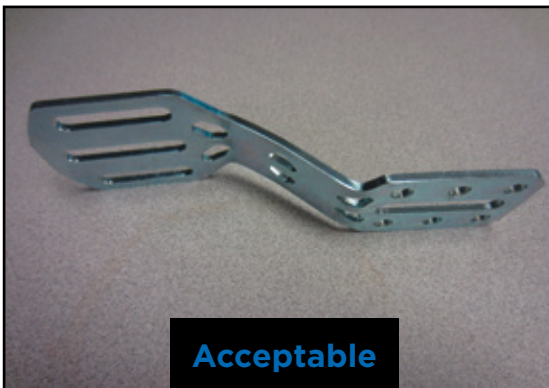
PN 100002442



8 EcoFix bracket bending & mounting rules.

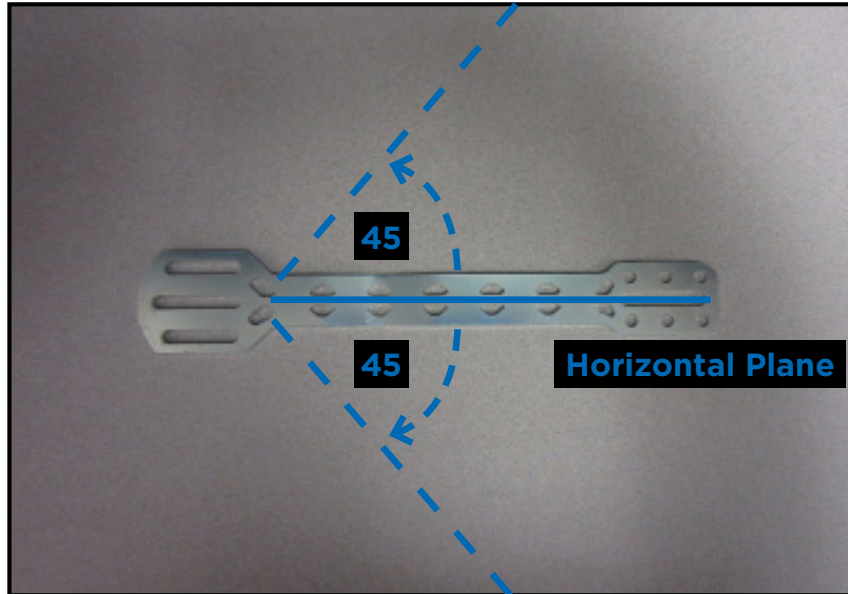


- NO 90 degree bends (instead use 2x45's)
- Do not bend EcoFix brackets past a 60/120 degree bend
- Bend fastening brackets 1 time. (Straightening and rebending a bracket will cause embrittlement.)
- If necessary the brackets can be twisted (max 90 degrees). See below image.

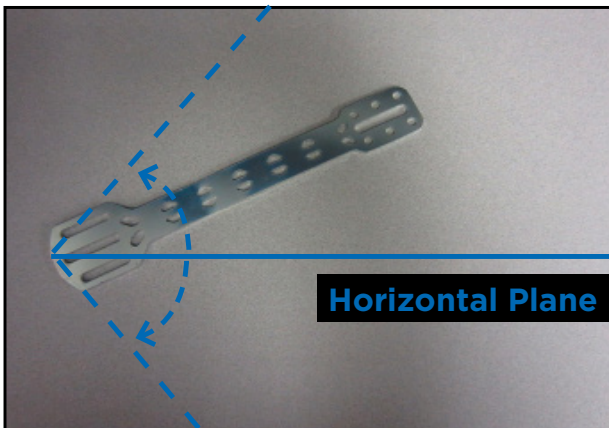


8

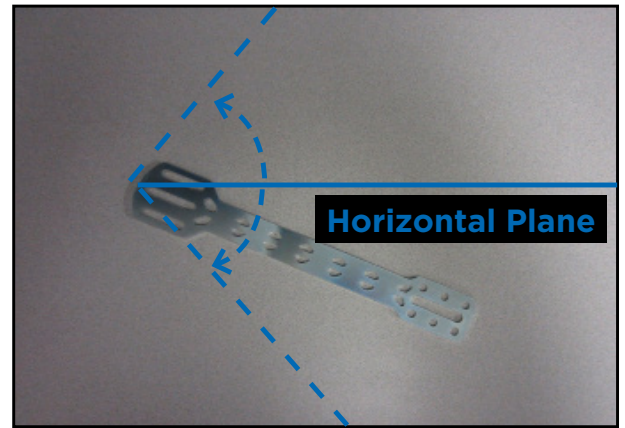
EcoFix bracket bending & mounting rules.



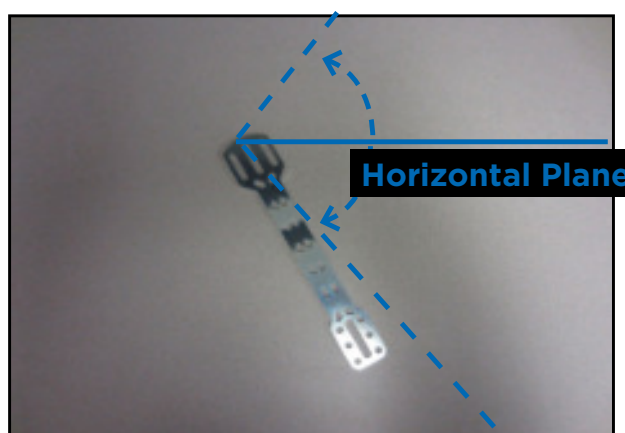
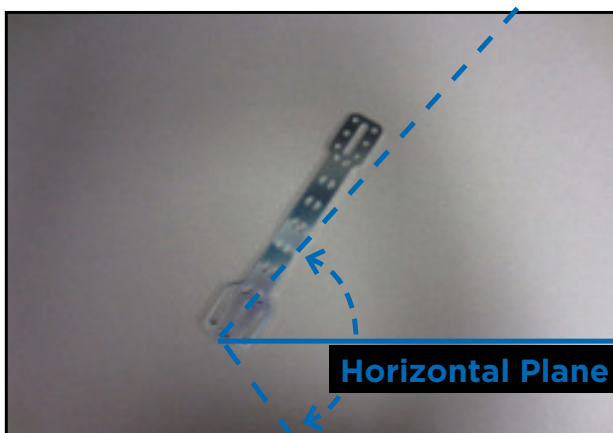
It is recommended to keep the EcoFix bracket on a horizontal plane when mounting it from the Exxpan unit to the wall. However, that is not always attainable. In this situation you are allowed to break the horizontal plane up to a 45 degree angle. See images below



Acceptable



Unacceptable



8

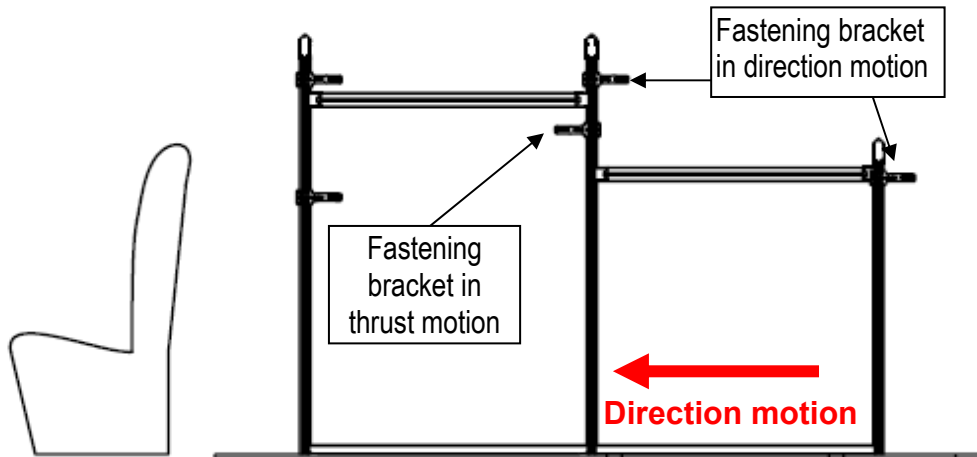
EcoFix bracket bending & mounting rules.

Directional & thrust motion brackets are required for mounting the Exxpand unit to the vehicle wall. The table below defines how many are required per unit size. Figures are derived from crash test data and should be closely adhered to.

EcoFix Brackets			
Exxpand Unit	Installation Kits	Directional Brackets	Thrust Brackets
4450-1	2	1	1
4460-1	2	2	1
4460-2	1	1	1
4660-1	2	3	1
4480-1	3	3	2
4480-2	1	1	1
4680-1	3	4	2
4680-2	1	1	1

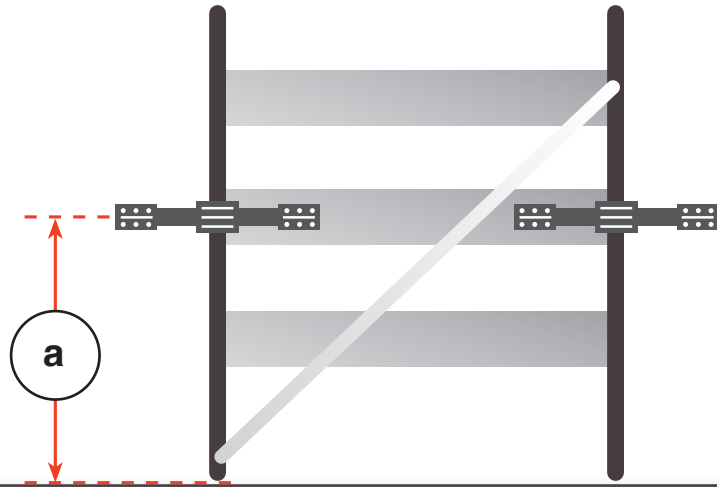


A combination of direction and thrust motion is ok.

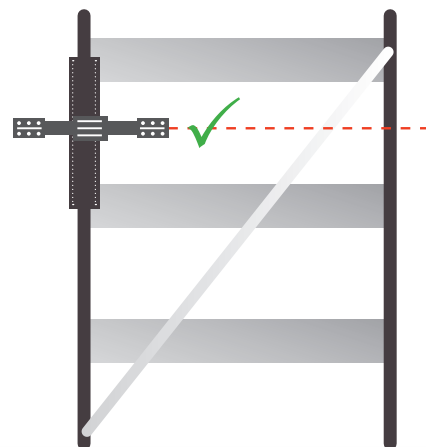
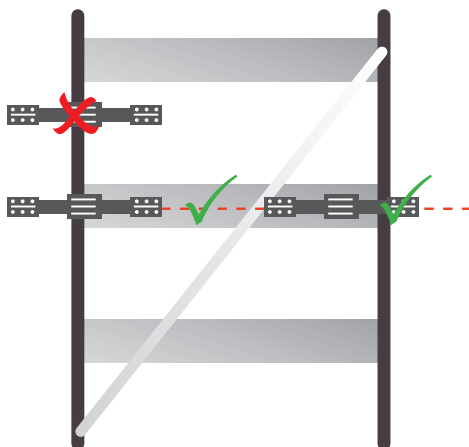




Note: The EcoFix mounting brackets must be attached to the shelves or the supplied mounting adapter plate. They are not allowed to attach to the end panels only.



The mounting adapter plate is to be installed on the back of the unit and MUST be touching/spanning 2 shelves (see illustration below). Using existing/included hardware from the assembly hardware kit, you MUST fasten the bracket a minimum of two points on each shelf upper and lower (4 total points of contact). The hardware at ALL 4 mounting locations MUST go through the Shelf Staxx Stability Bracket, shelf staxx side panel AND SHELF. The same applies when using this bracket on an end panel that supports a -1 and -2, you must place hardware on both sides of the stability bracket (8 total points of contact, see illustration below). With the Exxpand Stability Mounting Adapter Plate correctly mounted, you are allowed to mount the EcoFix bracket anywhere on the adapter plate.



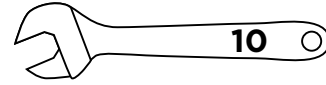
9



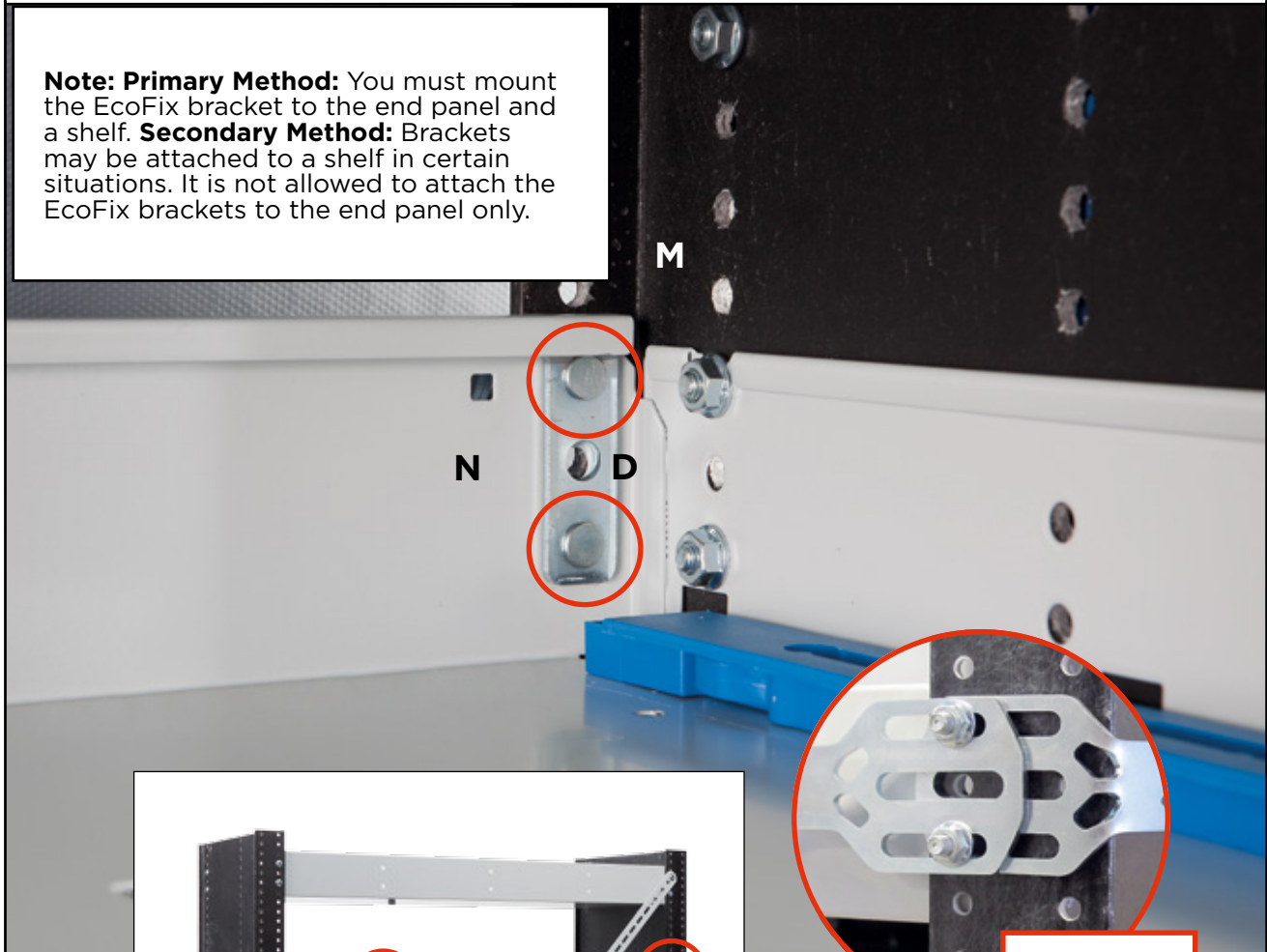
D
PN 71005206



F
PN 71003884



Note: Primary Method: You must mount the EcoFix bracket to the end panel and a shelf. **Secondary Method:** Brackets may be attached to a shelf in certain situations. It is not allowed to attach the EcoFix brackets to the end panel only.

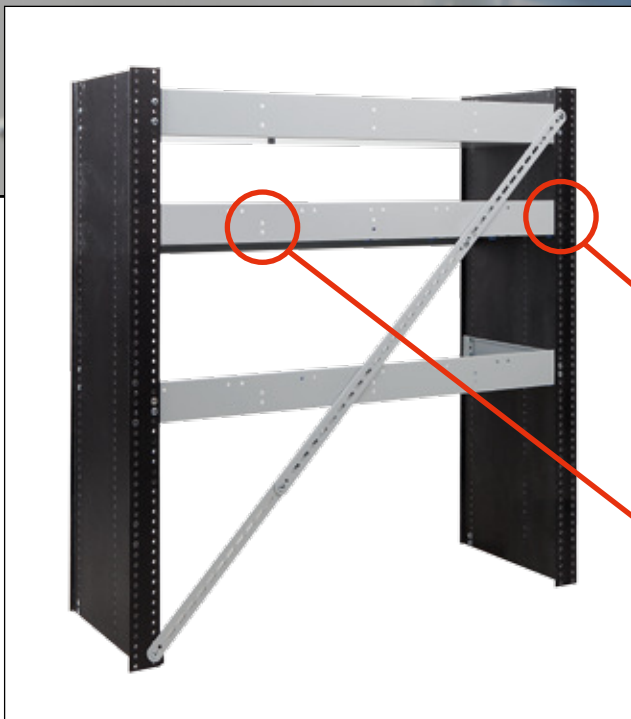


M

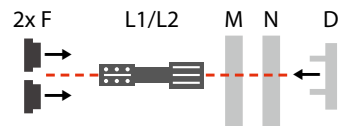
N

D

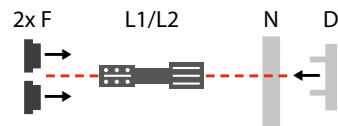
2x 2



Primary Method

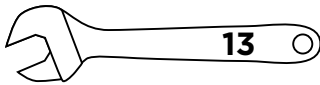


Secondary Method

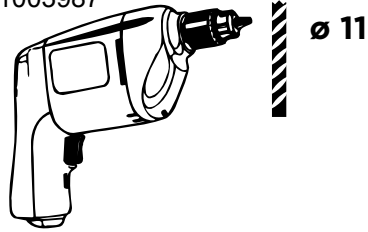


10

H
PN 71003988



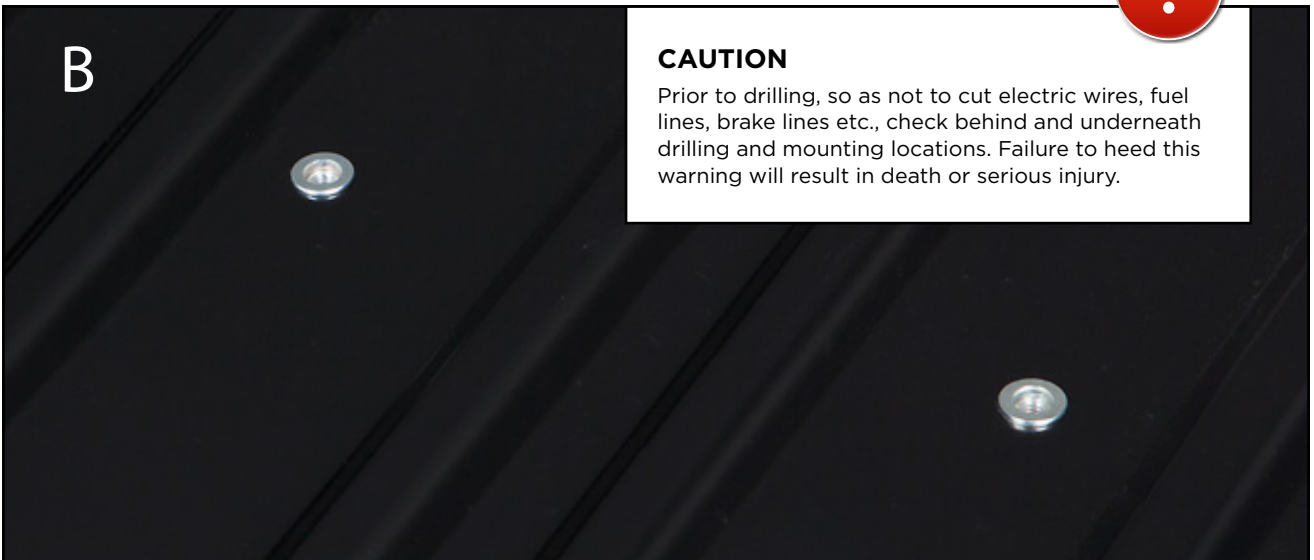
I
PN 71003987



A



B

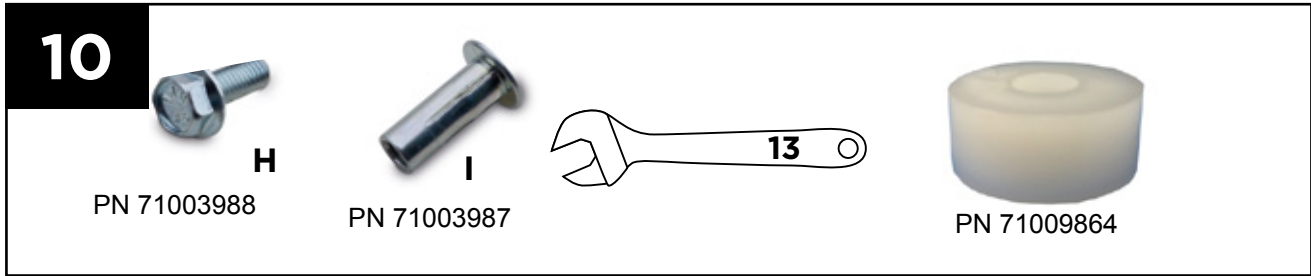


CAUTION

Prior to drilling, so as not to cut electric wires, fuel lines, brake lines etc., check behind and underneath drilling and mounting locations. Failure to heed this warning will result in death or serious injury.



10

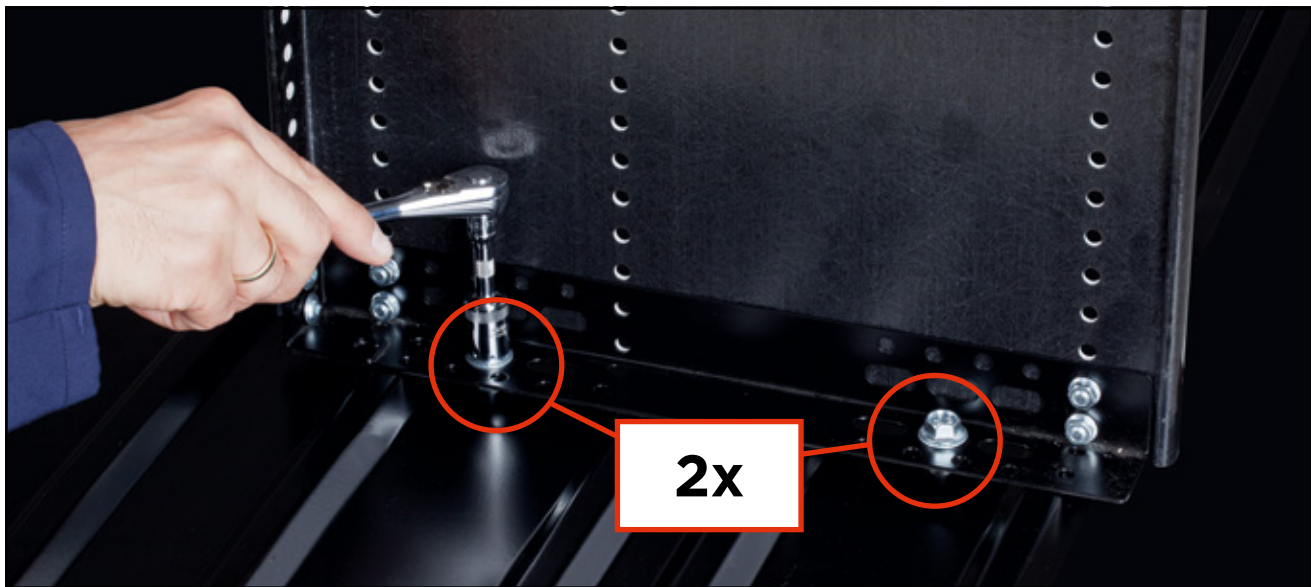
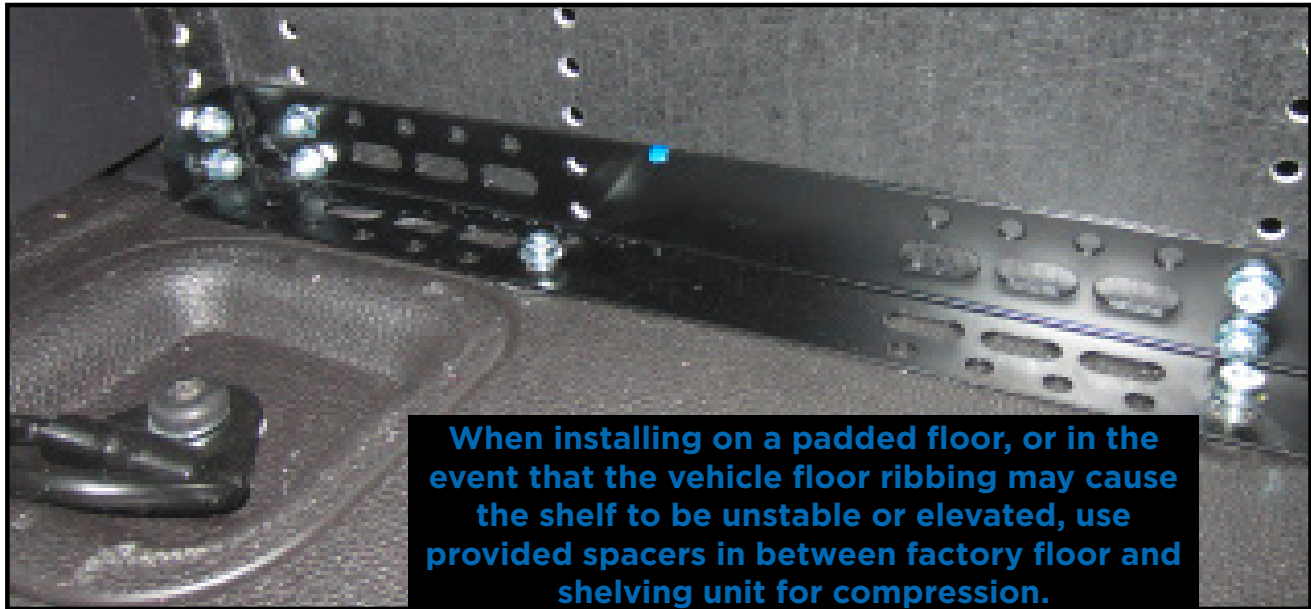


H
PN 71003988

I
PN 71003987

13

PN 71009864





Whenever possible, the use of two rivnuts and bolts are required to anchor the EcoFix bracket to the vehicle.

READY



2014 Ford Transit Connect



The following steps for Ford Transit Connect installation are imperative due to location of the vehicle fuel tank.

Place the ExxpanD unit in the vehicle. There should be approximately a 1 1/2" to 2" gap between the ExxpanD unit and the van wall. Make sure the rear of the unit is touching the factory moulding across the rear of the vehicle.

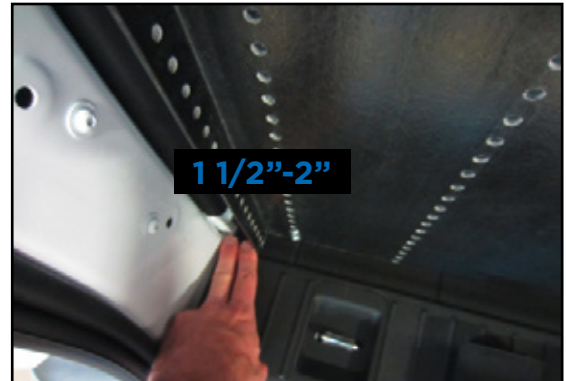
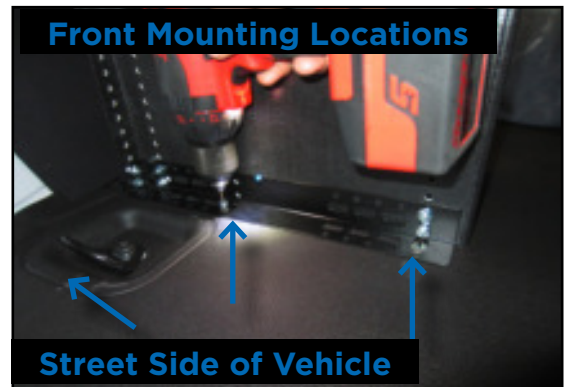


Figure showing front street side mounting locations, curb side typical.

Use a 1/8" bit with drill stop to drill pilot holes to identify mounting locations as denoted. Drill stop should be positioned at 3/4".



Use Supplied M6 rivnuts and MM1 bolts for Transit Connect floor mount only.



Due to factory installed plastic molding at both street side & curb side door ways, the front floor angle brackets must be facing rearward. Use supplied backing plates as shown on front of unit.



Chevrolet/ GMC Full Size Van

Curbside specific rear of block will require backing plates due to wheel well width.

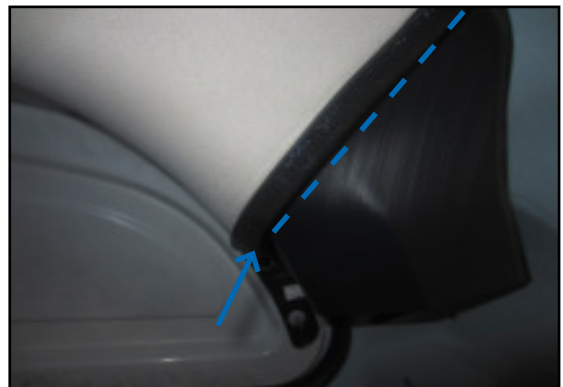


Ram C/V

Curbside of vehicle only will require the trimming of factory ductwork.



Using headliner as a guide, trim along the ductwork where ductwork meets factory headliner so that cut is flush.



Depending on whether your Ram C/V is equipped with Sortimo floor or aluminum floor will determine the mounting locations on the floor angle bracket.



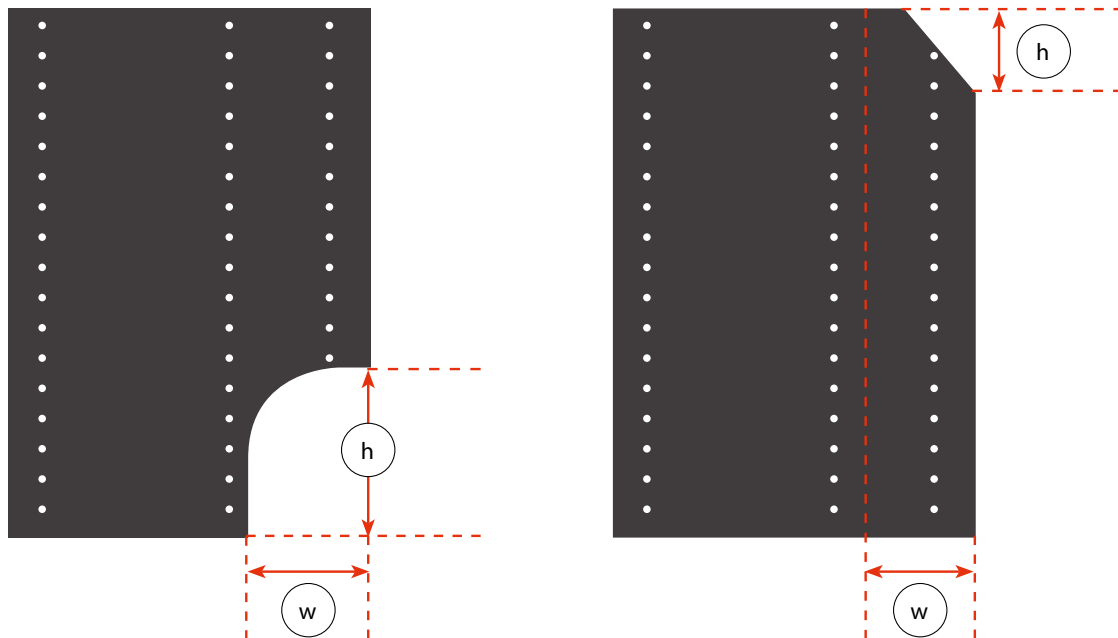
TECHNICAL NOTES

For fitting side panels to special requirements, we recommend following tools:

	BOSCH-Order-Number
• Jig Saw	0 601 517 000
• Suction device	0 601 9C3 100
• Saw blade	2 608 667 450

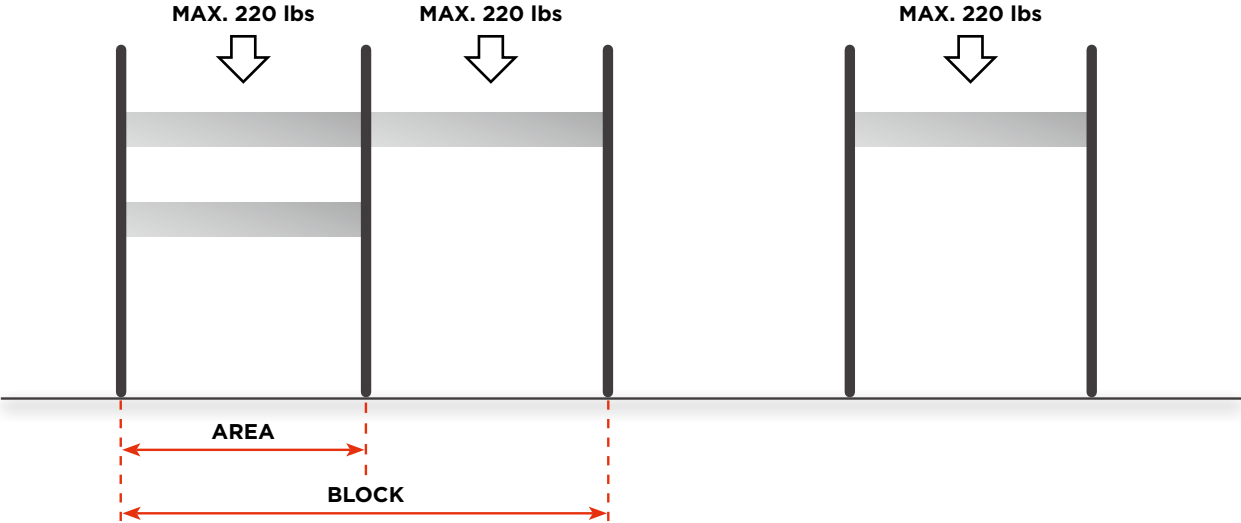
PLEASE PAY ATTENTION








Cutting side panels harms stability of the racking, therefore, do not cut out a width (w) of more than 3.93 inches and a height (h) of more than 19.68 inches.



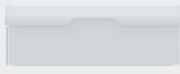


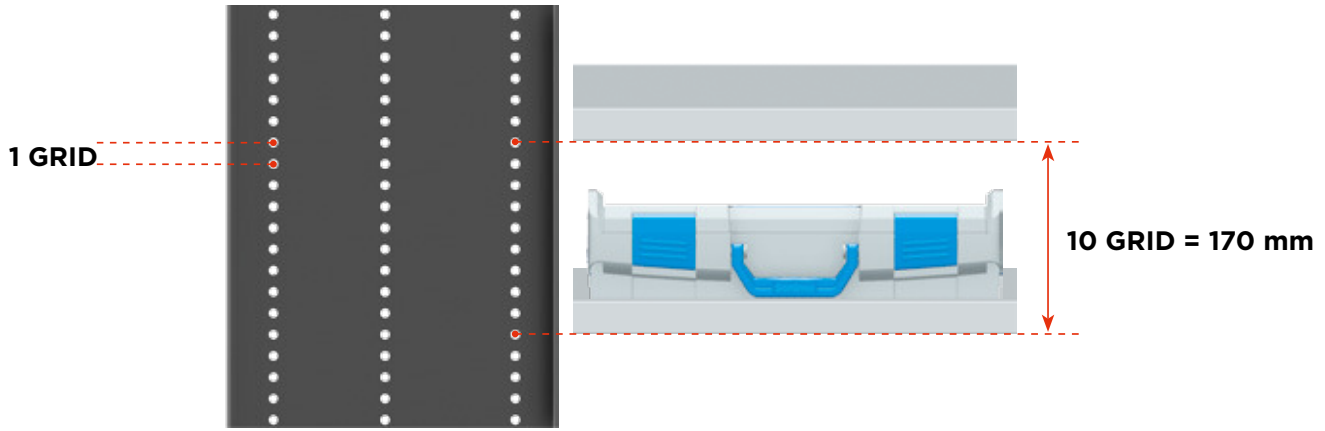
MAXIMUM LOAD

- Shelves 177.8 lbs
- Maximum area load 220 lbs



Grid	L-BOXX	LS-BOXX	i-BOXX-Rack
10 Grid = 10 holes			
12 Grid = 12 holes			
18 Grid = 18 holes			
21 Grid = 19 holes			
22 Grid = 22 holes			
26 Grid = 26 holes			
31 Grid = 29 holes			

Grid	S-BOXX	M-BOXX	T-BOXX
8 Grid = 8 holes			
12 Grid = 12 holes			

DISTANCE = GRID

Warranty and Limitation of Liability

SORTIMO N.A. warrants its van interior equipment to be free from defects in material and workmanship, under normal use and service for a period of three years or 36,000 miles, whichever occurs first, after the date of delivery to the original retail purchaser, when installed by an authorized SORTIMO Distributor and/or SORTIMO N.A. Upfit facility. Products not installed by an authorized SORTIMO Distributor and/or SORTIMO Upfit facility will not be subject to any warranty whatsoever and ANY AND ALL WARRANTIES WHATSOEVER RELATIVE TO SUCH SALES ARE HEREBY FULLY AND EXPRESSLY DISCLAIMED. This warranty only provides for the following remedy: repairs at the point of SORTIMO N.A.'s main place of business or any of its Distributor locations, or part replacements in part or in full to correct any defects related to material and workmanship. This warranty does not apply to products not installed by an authorized SORTIMO Distributor and/or SORTIMO N.A. Upfit facility.