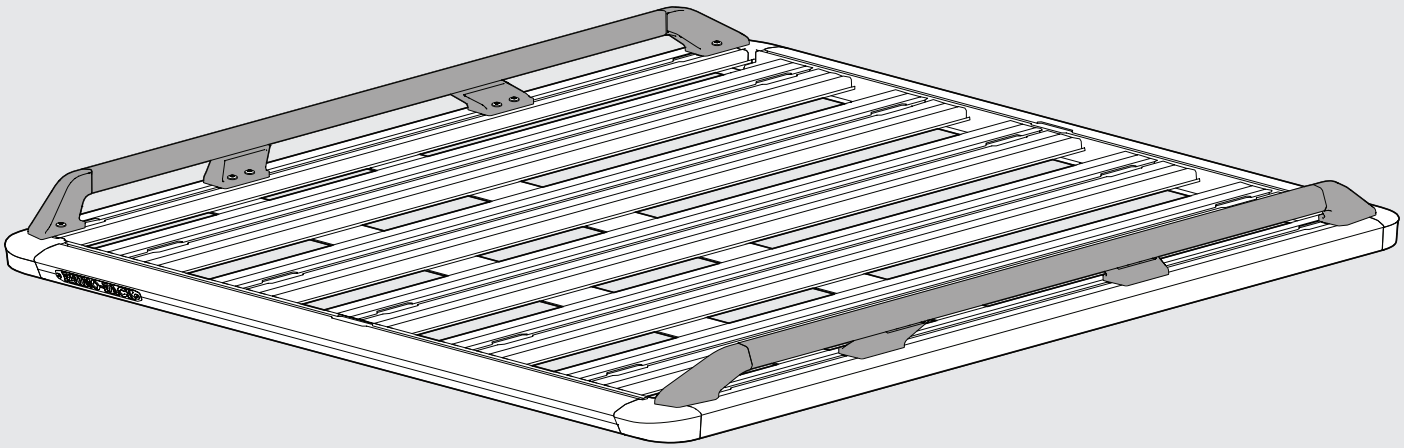
# Pioneer Platform Side Rails Instructions

**Important:**
1. Check the Rhino-Rack website to ensure you have the latest issue of these instructions.
2. Please refer to your fitting instruction to ensure that the roof racks are installed in the correct locations.
3. Check the contents of kit before commencing fitment and report any discrepancies.
4. Place these instructions in the vehicle's glove box after installation is complete.
5. These instructions must be followed for warranty to be upheld.

**Fit Time:** 30mins




**Rhino-Rack AUSTRALIA**
22A Hanson Pl,
Eastern Creek, NSW, 2766
(02) 8846 1900
rhinorack.com.au

**Rhino-Rack USA**
Unit D, 2450 Airport Blvd,
Aurora, CO, 80011
877-744-6622
rhinorack.com

**Rhino-Rack CANADA**
19100 Airport Way
Pitt Meadows, BC V3Y OE2
rhinorack.ca



Document No: 520-RFI-00005
Issue No: 02
Issue Date: 16/11/2021

## Carrying Capacity

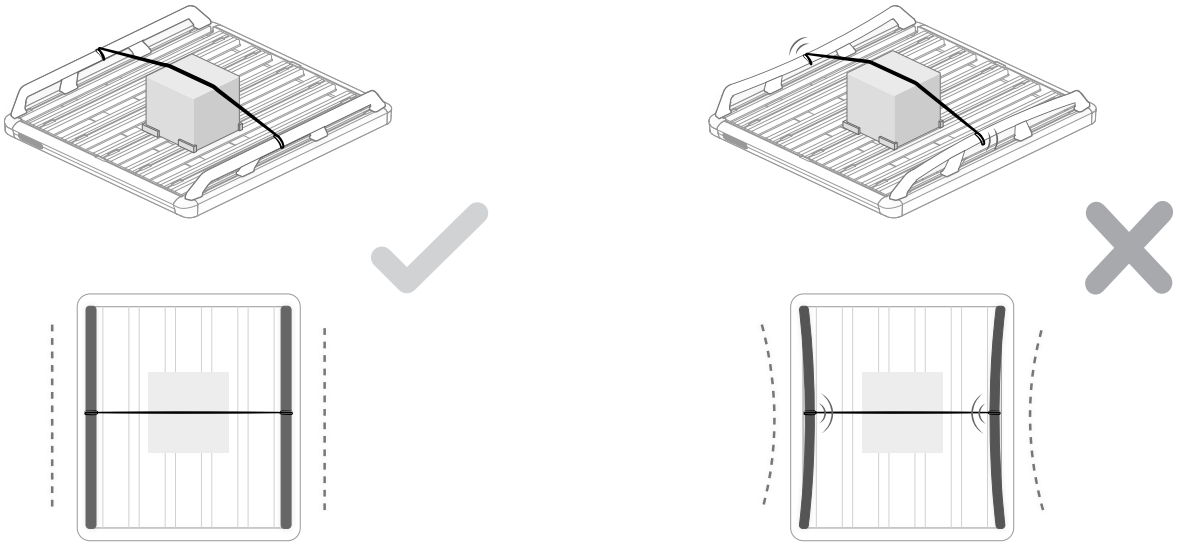
Check your vehicle owners hand book for vehicle maximum carrying capacity. Load must be evenly distributed over the system.

RAIL WEIGHT (pair)

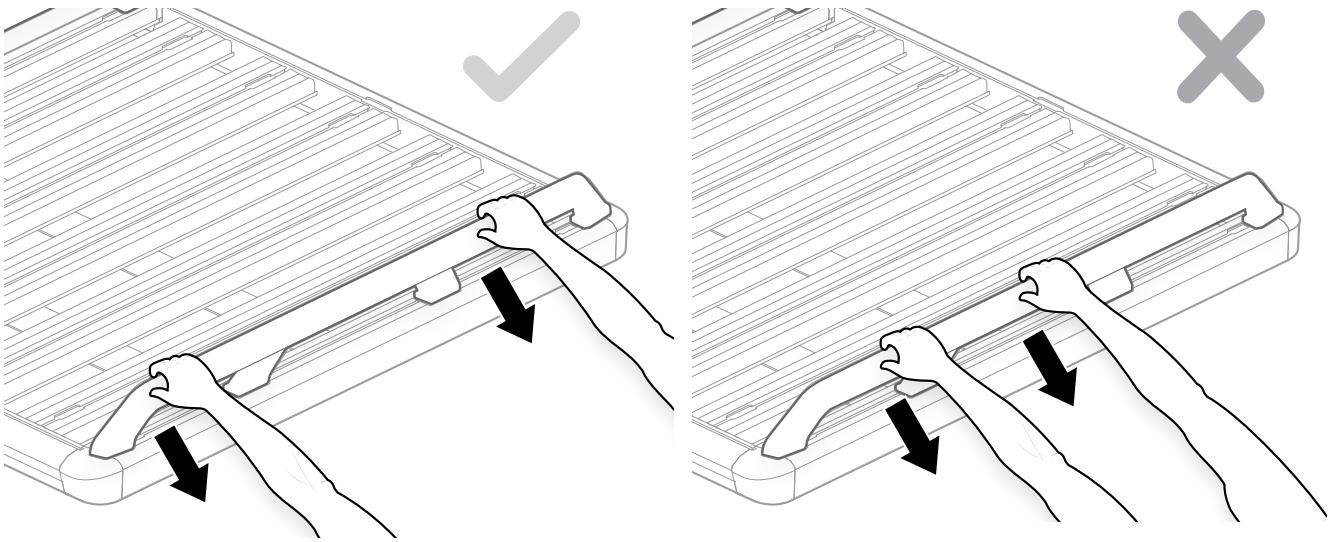
| | |
|---|---|
| 53140 | 2.6kg / 5.7lbs |
| 53146 | 2.4kg / 5.3lbs |
| 53147 | 2kg / 4.4lbs |

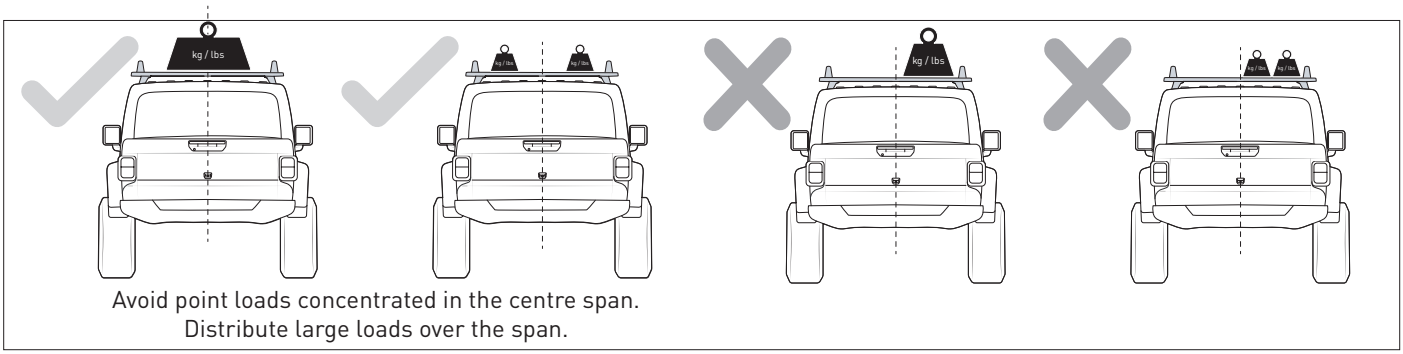
| | |
|---|---|
| 53141 | 3.7kg / 8.2lbs |
| 53142 | 4.4kg / 9.7lbs |
| 53144 | 3.5kg / 7.7lbs |
| 53145 | 3.4kg / 7.5lbs |

**Maximum strapping force = 100kg.**
When strapping to side rails, do not overtighten straps where rail is deformed. If rail begins to deform loosen strap.
Do **NOT** strap with ratchet straps on the side rails

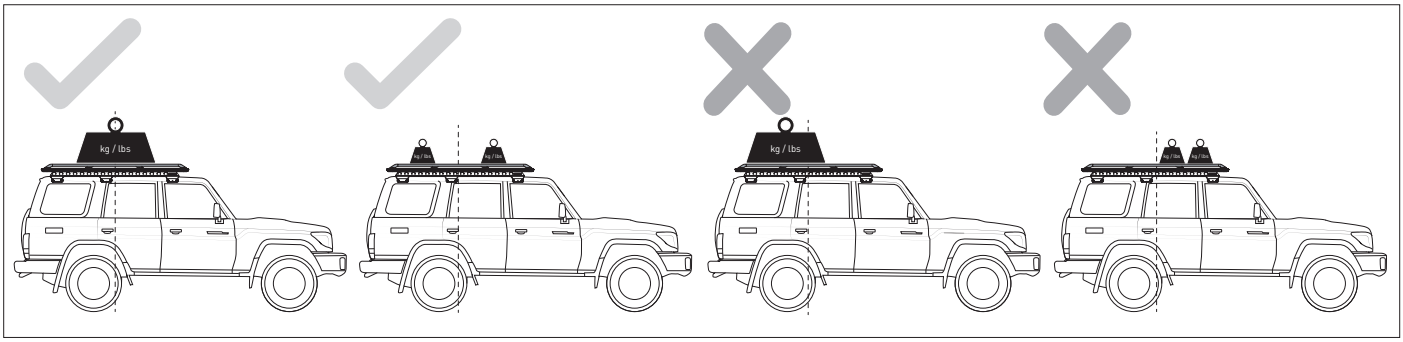


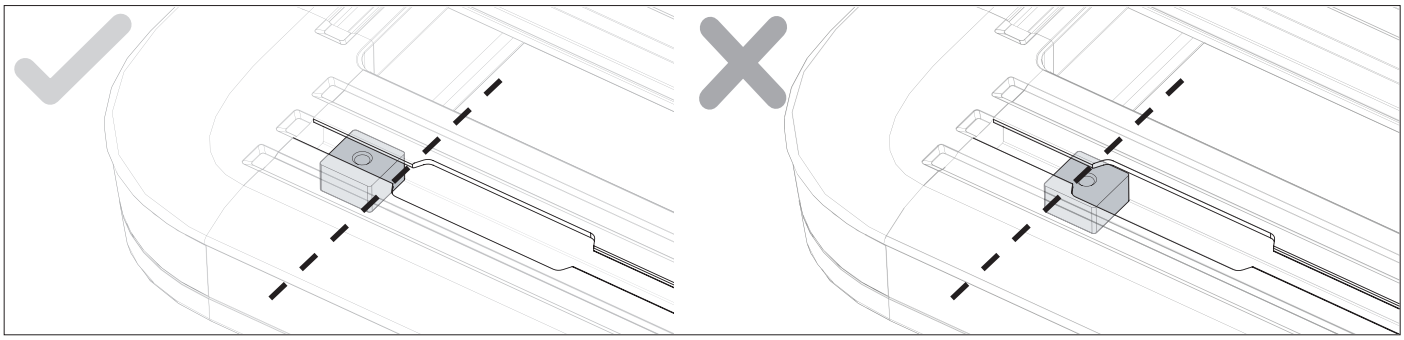
**Maximum pull force = 200kg.**
When grabbing to side rails, grab the rail further apart to spread the load through different feet mountings.






Avoid point loads concentrated in the centre span.
Distribute large loads over the span.



## Warning

- Check part number or kit is correct for use with your vehicle.
- Do not attempt to fit the system to your vehicle unless you fully understand these fitting instructions. Please direct any questions regarding fitting to the dealer from where the products were purchased.
- Off-road conditions can be much more rigorous. Extreme care must be taken in off road conditions.
- Roof racks must be removed when vehicle is put through an automatic car wash.
- With utility vehicles, the cabin and the canopy move independently. Roof accessories and vehicle can be damaged if the item transported is rigidly fixed at points on both the cabin and canopy. Instead, rigidly fix to either the cabin or the canopy roof racks.
- Always ensure you fasten your load securely.
- Use only non-stretch fastening ropes or straps to attach cargo to your load.

## In service maintenance checks

- All bolt connections should be checked after driving a short distance when you first install your roof racks.
- All bolted connections should be checked again at regular intervals (weekly is recommended, depending on road conditions, usage, loads and distances travelled).
- All bolted connections should be checked each time they are re-fitted.

**Torque Settings**

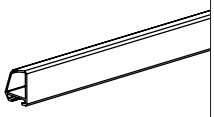
Unless stated otherwise in these instructions, all fasteners should be set to the following torque settings - M6: 4-5Nm (3-4lbs/ft), M8: 8-10Nm (6-7.5lbs/ft) and M10: 16-18Nm (12-13lbs/ft).

## Note for Dealers and Fitters

It is your responsibility to ensure these fitting instructions are given to the end user or client. These instructions remain the property of Rhino-Rack Australia Pty. Ltd. and may not be used or changed for any other purpose than intended.

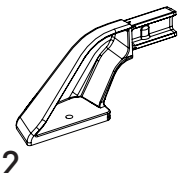
## Parts List

Rail Extrusion



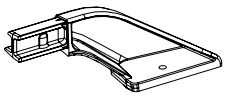
A x2

RHS End Foot



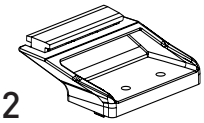
B x2

LHS End Foot



C x2

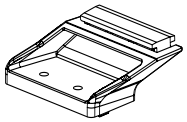
LHS Support Foot



D2 x2

D4 x4

RHS Support Foot



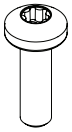
E2 x2

E4 x4

M6x12 Pan Head Screw

F x4

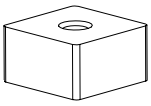
M6x20 Torx Pan Head Screw



G2 x12

G4 x20

M6 Track Nut



H2 x12

H4 x20

M6 Washer

I2 x8

I4 x16

Torx Bit

J x1

Instruction

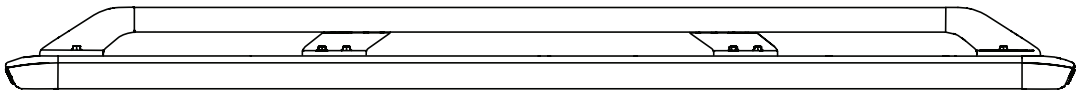
K x1

**Tools Required**

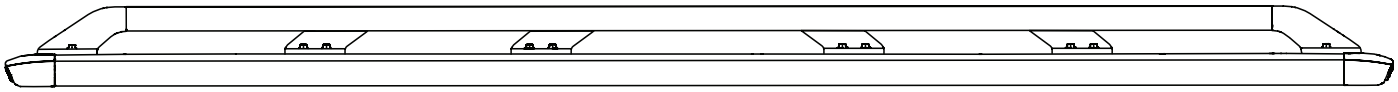
T1 - Torque tool (Supplied with 5XXXX Series Pioneer Platform)
T2 - Tape Measure

## Notes

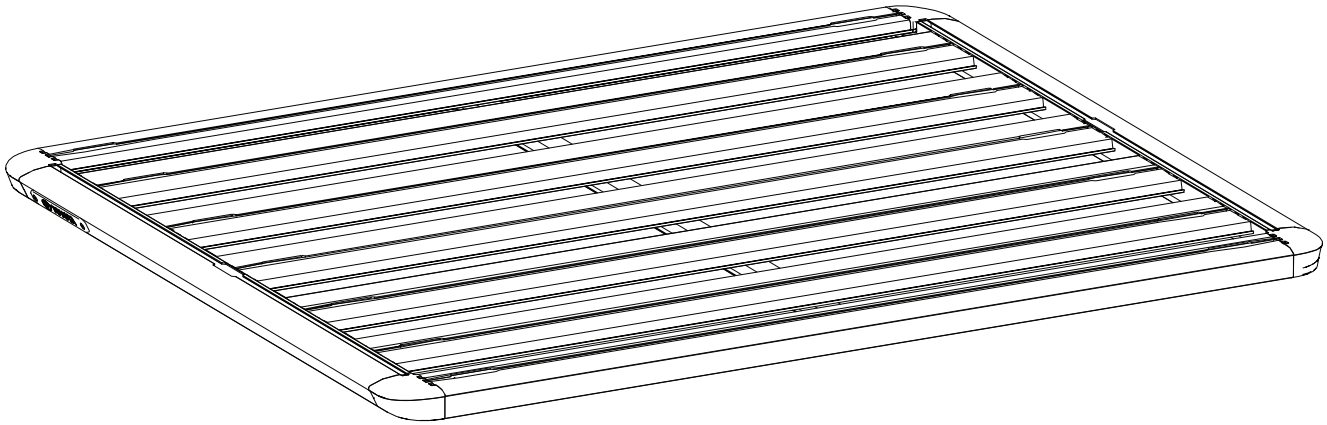
D2 E2 G2 H2 I2 Quantities are for the below set up



D4 E4 G4 H4 I4 Quantities are for the below set up

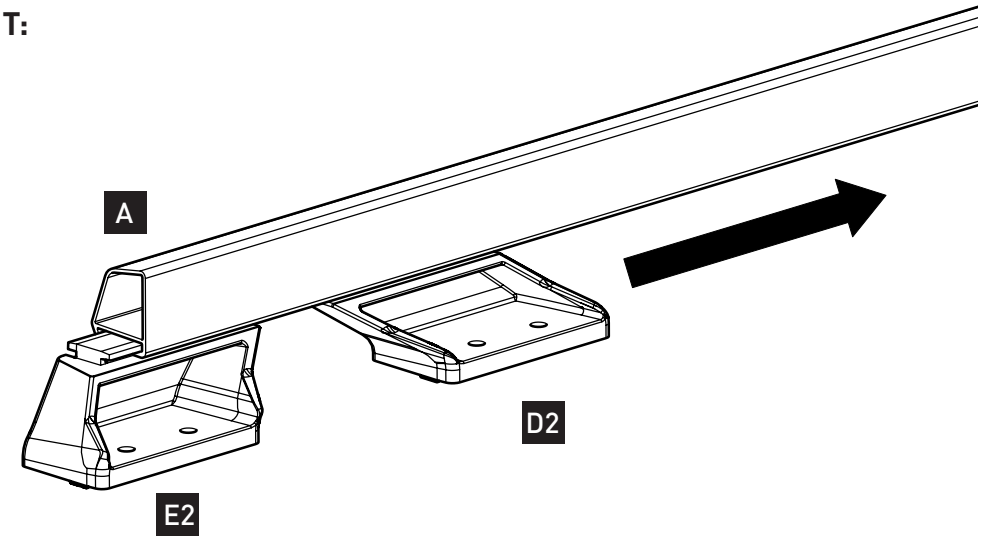


**1** Platform must be preassembled

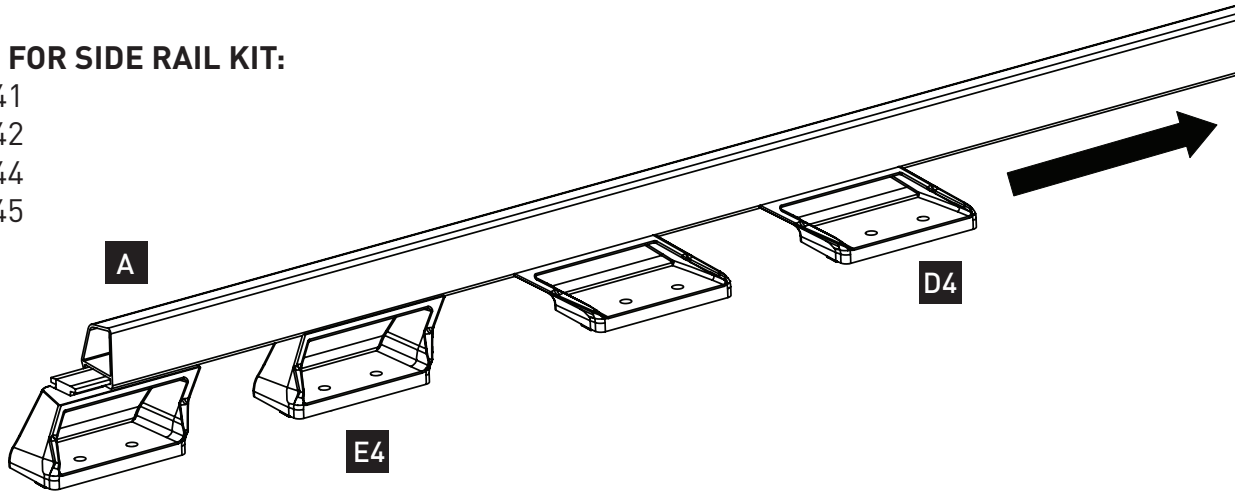


**2**

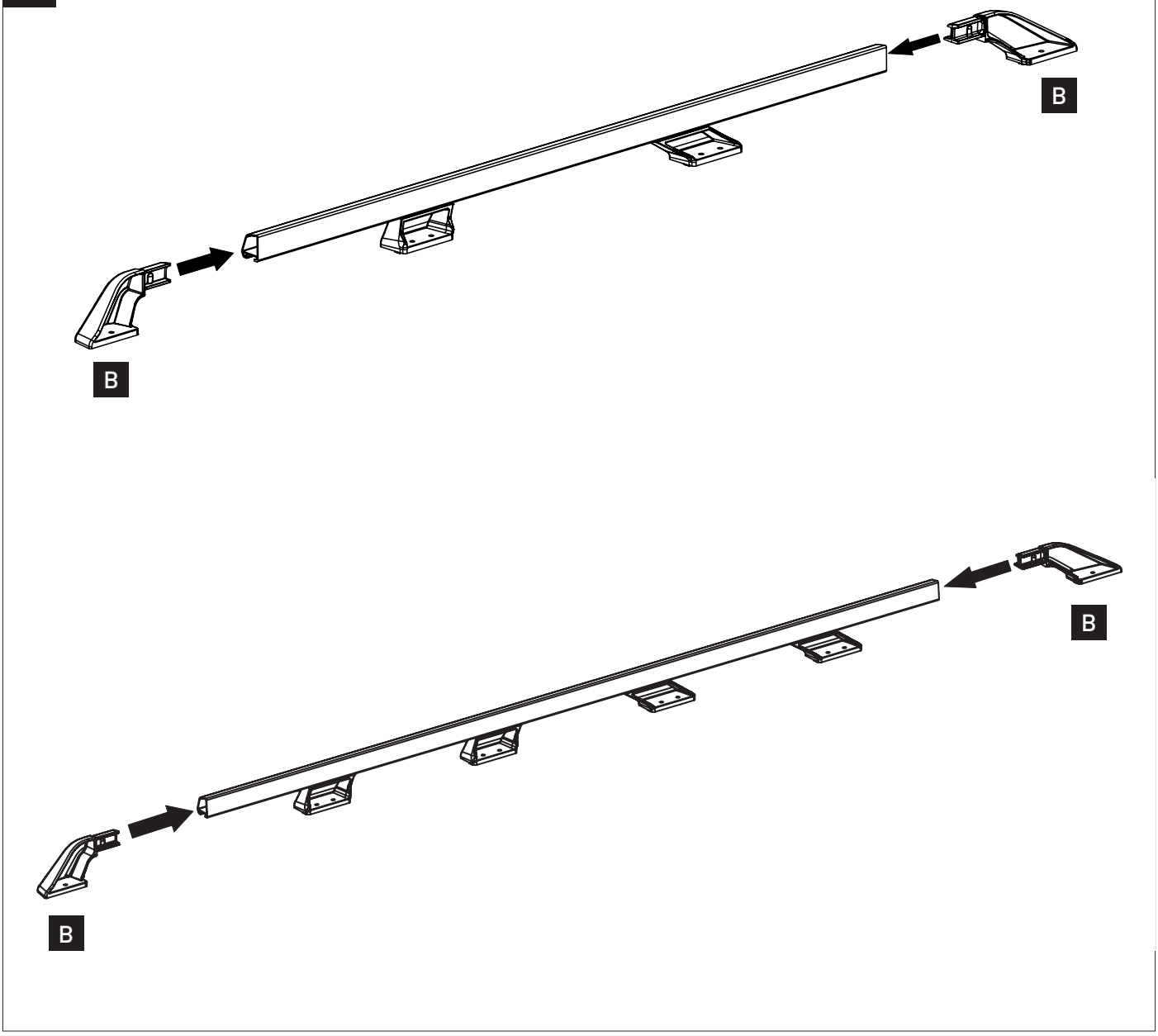
**USE FOR SIDE RAIL KIT:**
53140
53146
53147



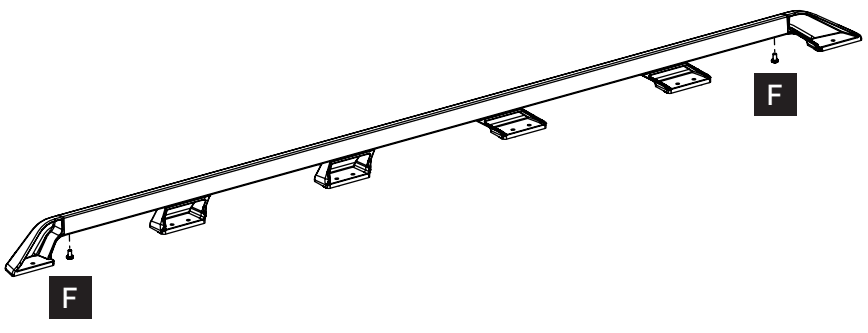

**USE FOR SIDE RAIL KIT:**
53141
53142
53144
53145

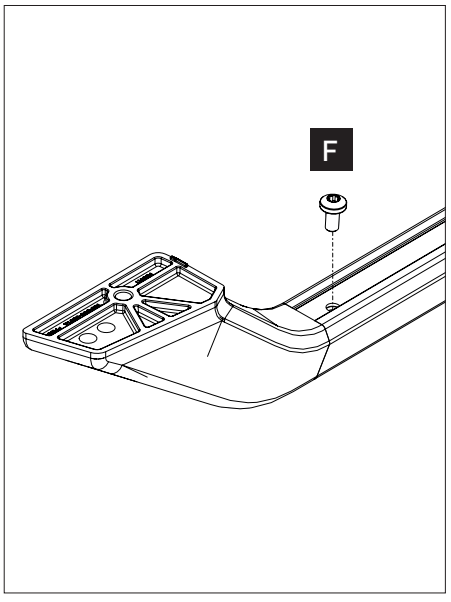


**3**




**4**

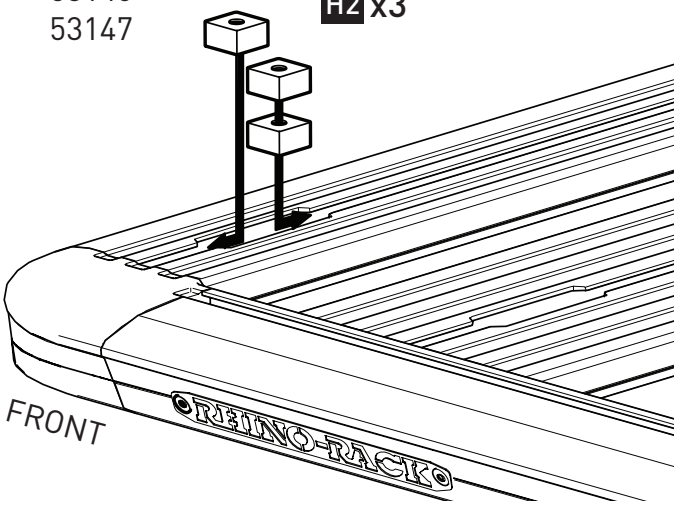


**5**

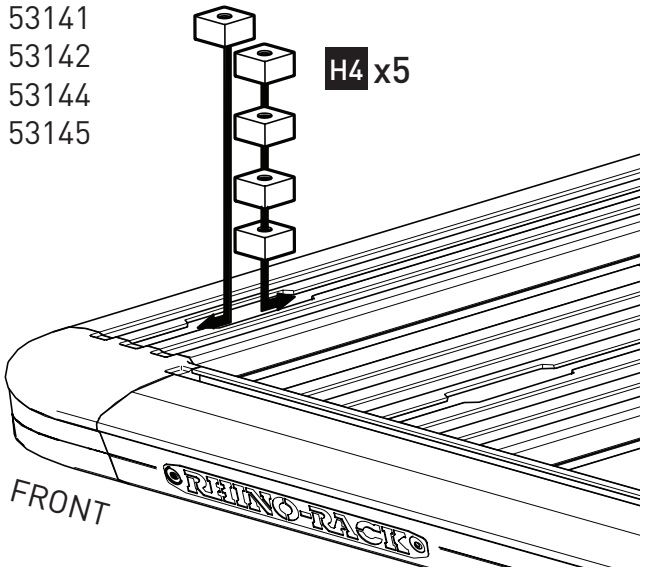
**USE FOR SIDE RAIL KIT:**
53140
53146
53147

H2 x3




**USE FOR SIDE RAIL KIT:**
53141
53142
53144
53145

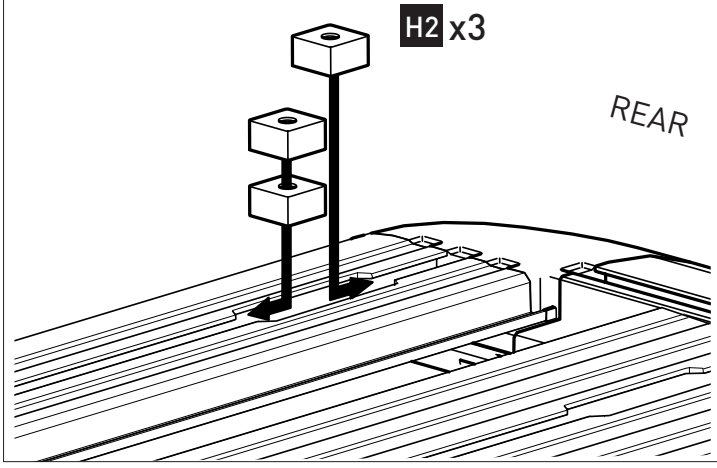
H4 x5




**6**

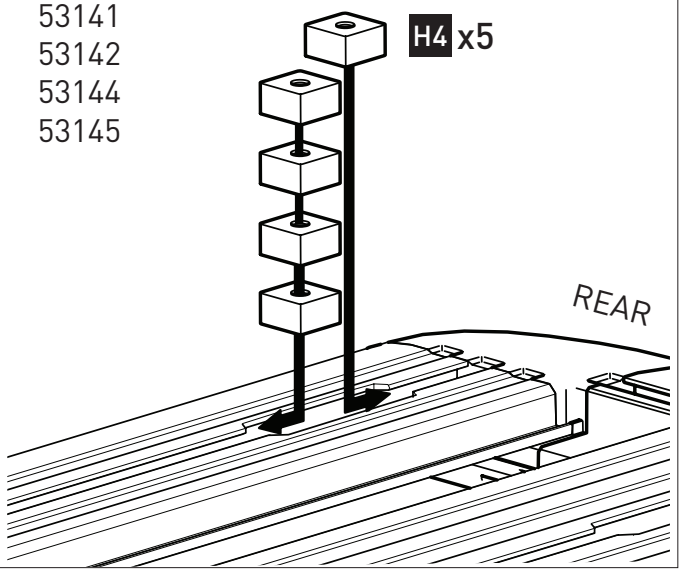
**USE FOR SIDE RAIL KIT:**
53140
53146
53147

H2 x3




**USE FOR SIDE RAIL KIT:**
53141
53142
53144
53145

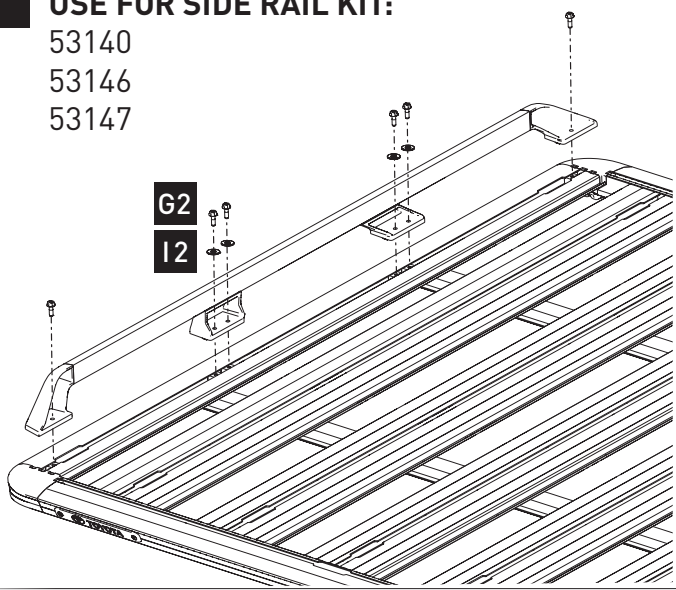
H4 x5




**7**

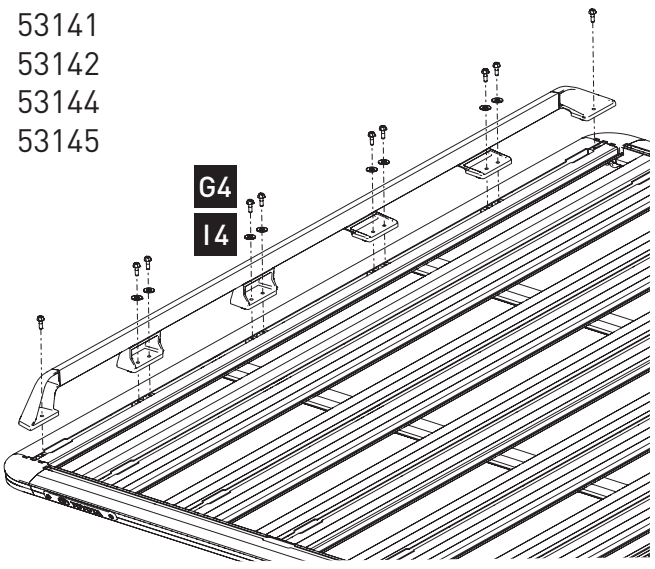
**USE FOR SIDE RAIL KIT:**
53140
53146
53147

G2
I2

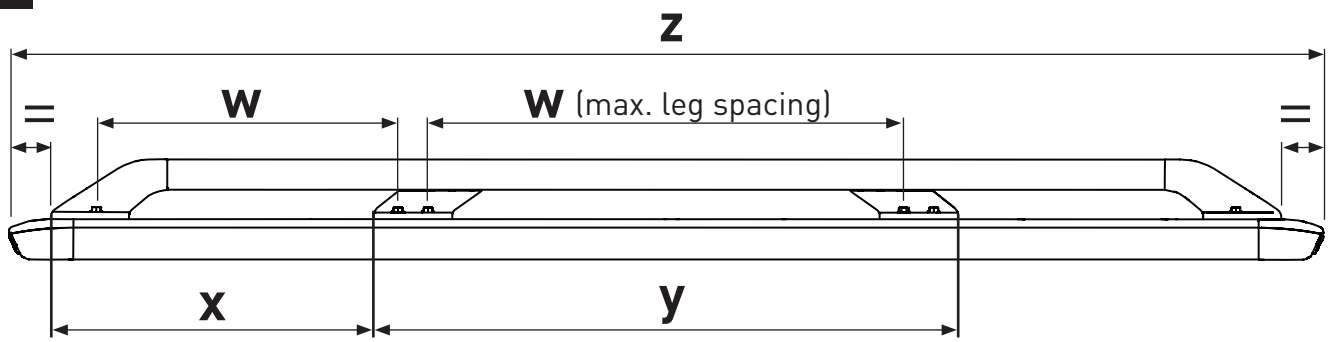


**USE FOR SIDE RAIL KIT:**
53141
53142
53144
53145

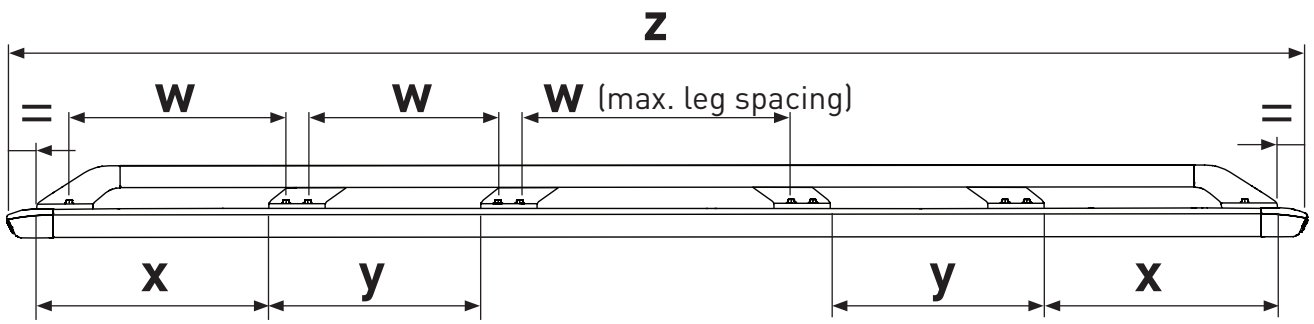
G4
I4



**8** **D** **E** may be adjusted depending on accessories fitted




| SIDE RAIL KIT | SUITS TRAY LENGTH z (mm) | w (mm) | x (mm) | y (mm) |
|---|---|---|---|---|
| 53140 | 1528 | 600 | 414 | 602 |
| 53146 | 1328 | | 339 | 552 |
| 53147 | 928 | | 214 | 402 |




| SIDE RAIL KIT | SUITS TRAY LENGTH z (mm) | w (mm) | x (mm) | y (mm) |
|---|---|---|---|---|
| 53141 | 2128 | 600 | 344 | 390 |
| 53142 | 2728 | | 449 | 500 |
| 53144 | 1928 | | 324 | 330 |
| 53145 | 1828 | | 294 | 320 |

**9** Repeat **2** - **9** to opposite side