

# Measuring your boat for a Mainsail



## HOW TO MEASURE YOUR BOAT - TIPS

Tie the light line to the zero point ring on your tape measure and then shackle the ring to the main halyard. Pull to the top of the mast until the tape measure zero point ring is hard against the halyard sheave box for the main halyard. Then secure the halyard so you can pull down against the tape measure.

We will allow for the distance from max hoist and max outhaul or you can supply the P & E measurements.

**P** = Luff and **E** = Foot

These measurements being exact are required for boats sailing under one design or racing rules normally.

What is more important is knowing the maximum measurements to allow for stretch and range.

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Type of Yacht	catamaran

Write the measurements in the boxes below each point.

- 1 Max Hoist** – measure to tack pin at gooseneck

Max Hoist	14100mm
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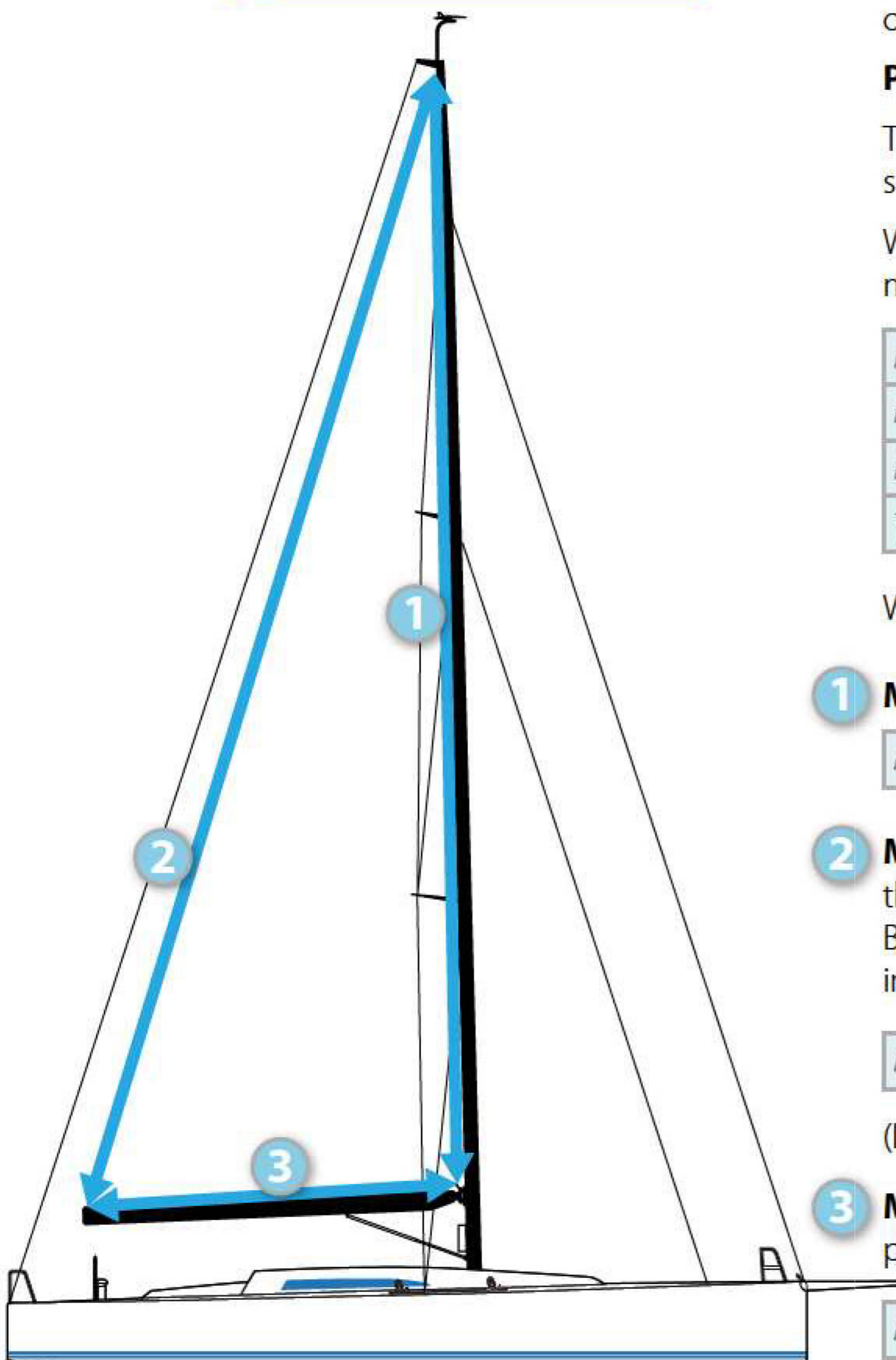
- 2 Max Leech** – generally all leech measurements are with the boom at 90 degrees however if you have a Dodger or Bimini then measure to the outhaul car pin with the boom in its normal position whilst sailing

Max Leech	14010mm
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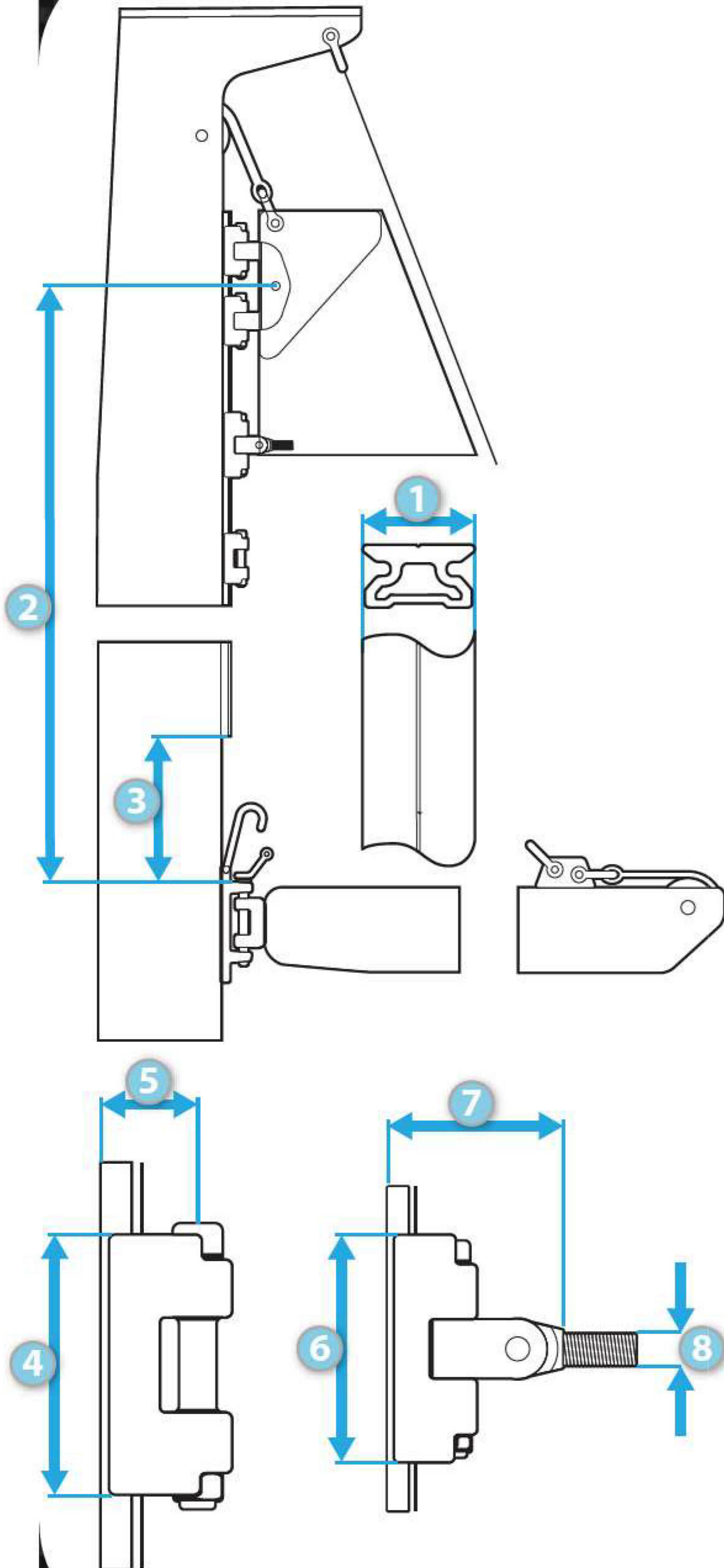
(Drop tape measure and halyard to deck. Secure halyard)

- 3 Max foot** – measure from back of mast to outhaul pin with outhaul max aft

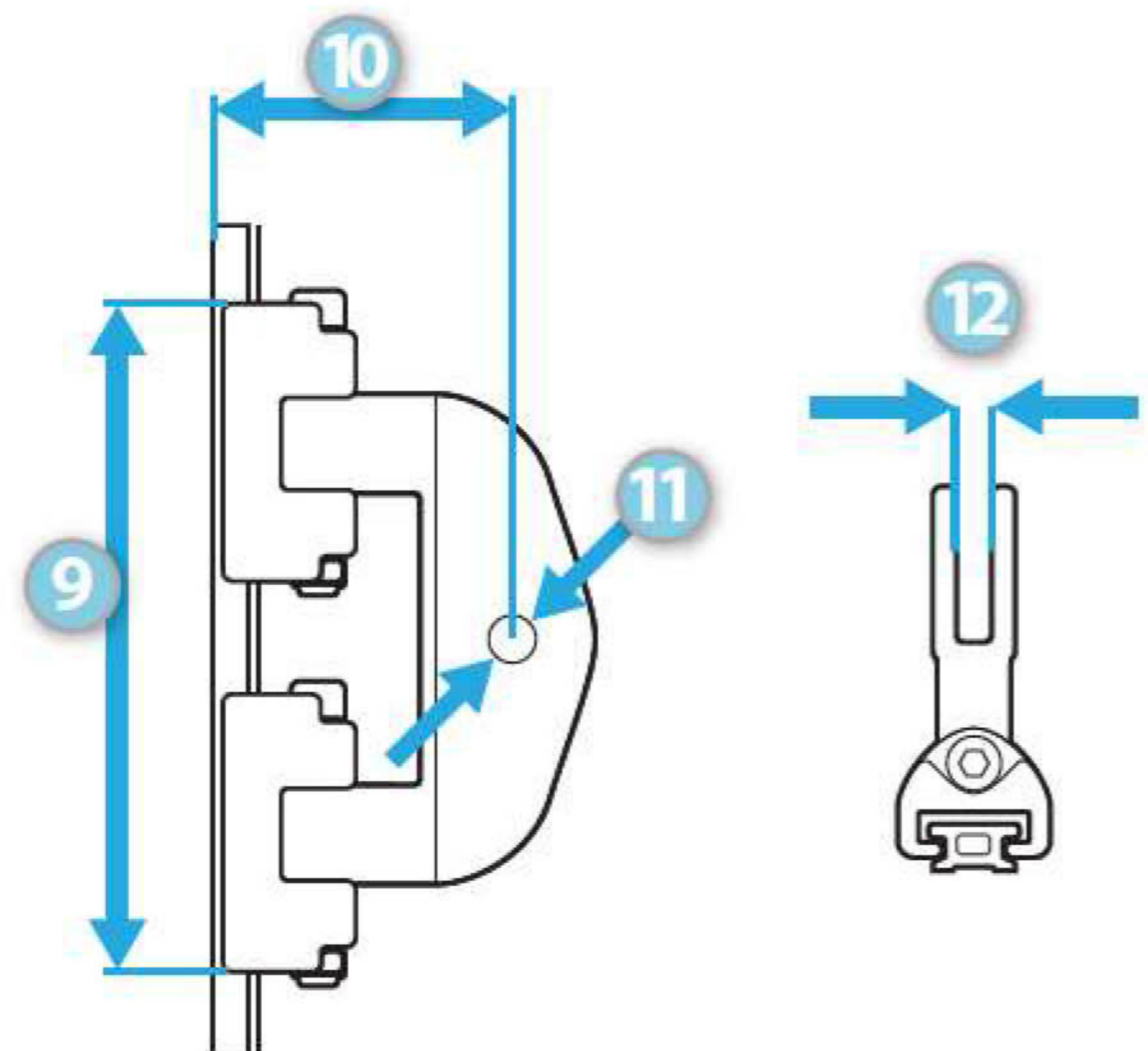
Max foot	5765mm
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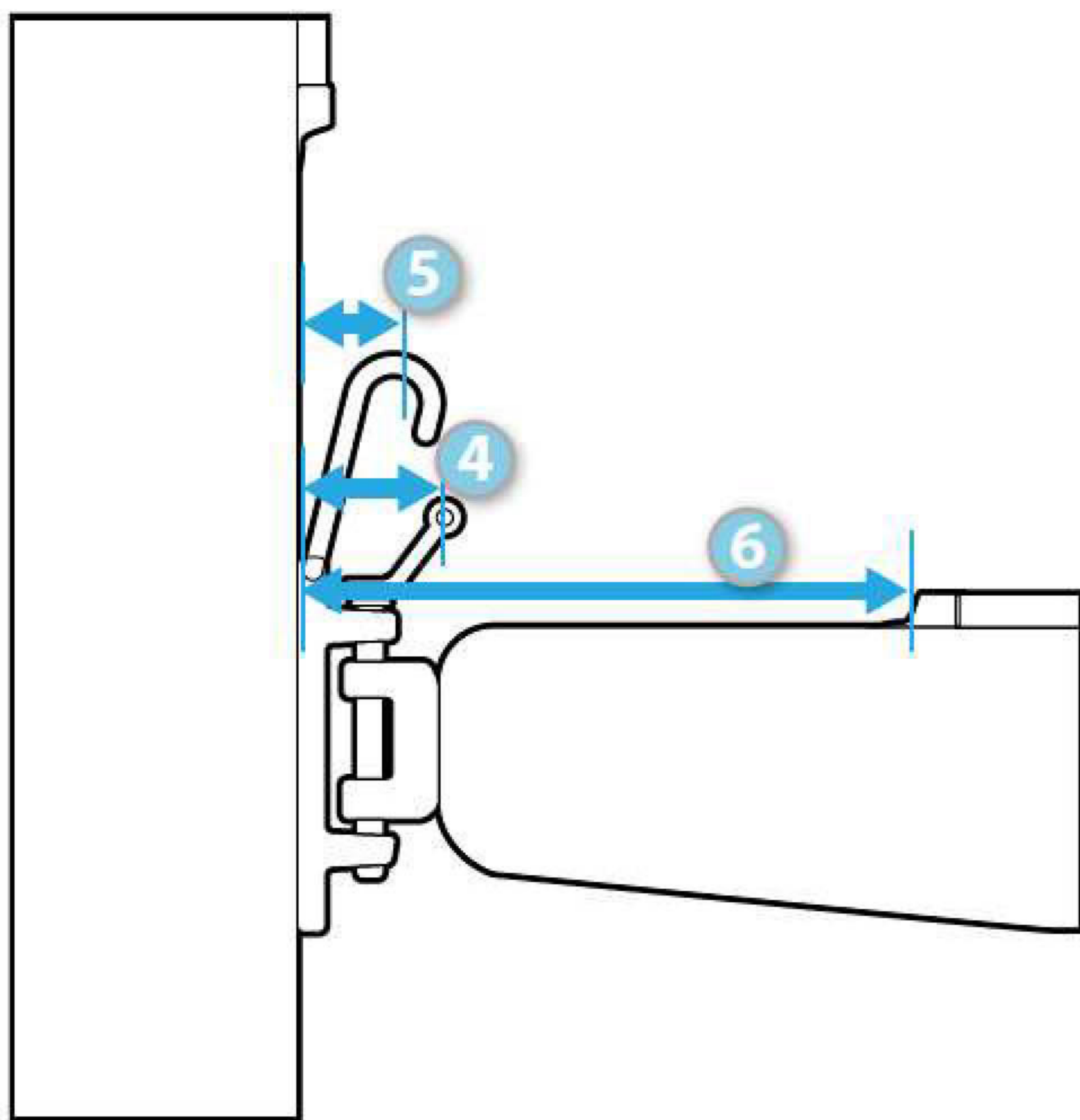


# External Track System (if present)



1	Track width	25 mm
2	Max height of head board car	14080mm
3	Bottom of track	20mm
4	Height if intermediate car	85 mm
5	Back of mast to centre of pin	35 mm
6	Height of batten car	84 mm
7	Back of mast to thread stop	73mm
8	Thread diameter	10mm
9	Height of headboard car	126mm
10	Back of mast to headboard carriage pin	90mm
11	Headboard carriage pin diameter	8mm
12	Width of headboard carriage	15mm
	Number of intermediate cars	6
	Luff attachment intermediate cars	
	Number of full batten cars	5
	Luff attachment at full batten cars	





**Measured from Back of Mast**

- 4 Tack set back** - Holding the shackle at the goose neck at 45 degrees we need to measure how far aft the bearing point of the shackle is relative to the aft face of the mast or external track. We call this the TACK SET BACK.

Tack set back	75 mm
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- 5 Reef Hook Aft** - Holding the shackle or hook at the goose neck at 45 degrees we need to measure how far aft the bearing point of the shackle or hook is relative to the aft face of the mast

Reef Hook aft	80 mm
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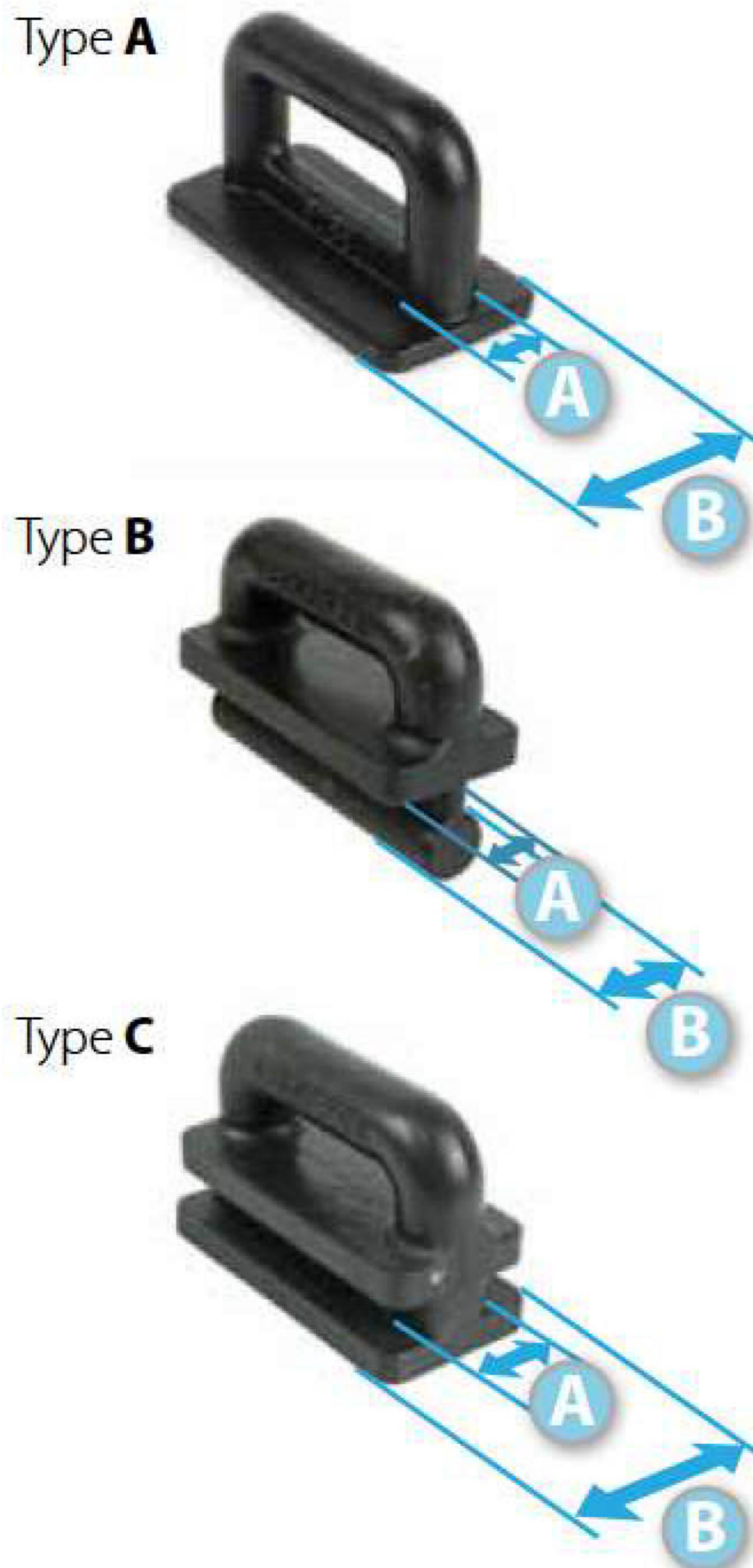
- 6 Foot Groove Aft** - measure from the mast to where the sail goes into the foot groove of the boom (If your boat has foot groove)

Distance aft	N/A - free foot
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- 10 Luff tape or Slide measurement** for sail attachment to mast and boom. With your digital callipers or ruler measure the diameter of the bolt rope on the luff tape of your existing mainsail. Alternatively measure the external track of both the mast and boom

Luff tape or Slide	
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**Luff Hardware**

Type A <input type="checkbox"/>	Type B <input type="checkbox"/>	Type C <input type="checkbox"/>	Rope <input type="checkbox"/>
Other Please specify			
Bolt rope diameter			
A Width			
B Throat			

**Full foot hardware**

Type A <input type="checkbox"/>	Type B <input type="checkbox"/>	Type C <input type="checkbox"/>	Rope <input type="checkbox"/>
Other Please specify			
Bolt rope diameter			
A Width			
B Throat			

