

Curved track

4RACE

MINIMUM VERTICAL RADIUS

- Acceptable
- Acceptable but with a reduction of the working load

R → Vertical radius

CAR SIZE mm	VERTICAL BENDING – R m									
	2	4	6	8	10	12	14	16	18	20
110										
150										
190										

MINIMUM HORIZONTAL RADIUS

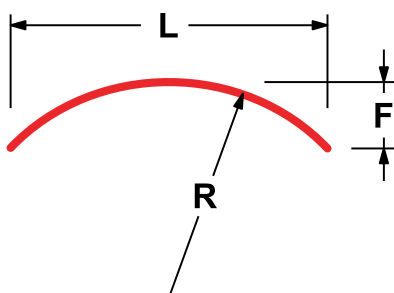
- Acceptable
- Acceptable but only for a modified car

R → Horizontal radius

CAR SIZE mm	HORIZONTAL BENDING – R m									
	2	4	6	8	10	12	14	16	18	20
110										
150										
190										

MAXIMUM BENDING (MINIMUM RADIUS) FOR ANTAL TRACKS

On request Antal will supply bent tracks whether in the vertical or in the horizontal plane. Minimum radius for different lengths of the car: 110, 150 and 190 mm are quoted on the tables.



To find the value of the curved radius start from the length (L) and height (F) of the arch using the following approximate formula (R, L and F will be measured with the same unit of length).

$$R = \frac{L^2}{8 \cdot F}$$

$$F = \frac{L^2}{8 \cdot R}$$



Horizontally curved track with a size 110 car.



SELF-TACKING JIB BOARDS

5 hard black anodized aluminium models for webbing connection to the sail.

There are 4/5 different positions for the sheet block that will be simply fixed with an HR shackle.

Self-tacking systems

4RACE

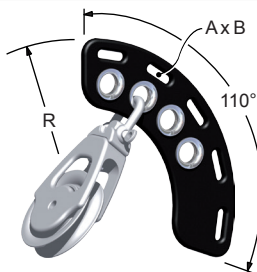
SELF-TACKING SYSTEMS

Antal has two solutions for self-tacking using track and travellers of the new 4Race system. The first solution (**DWG. 1**) needs a “footblock” for the sheet on one side of the track; the sheet, from this footblock, goes to the cockpit. In this case the track will be curved only in the horizontal plane.

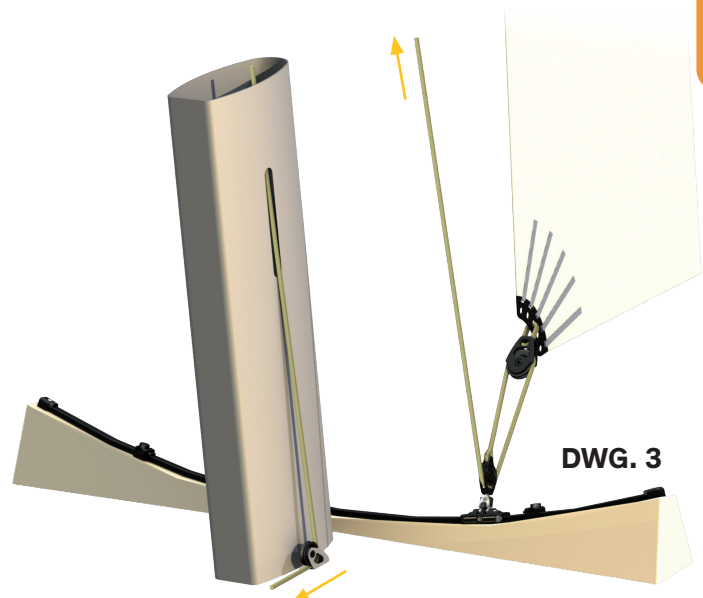
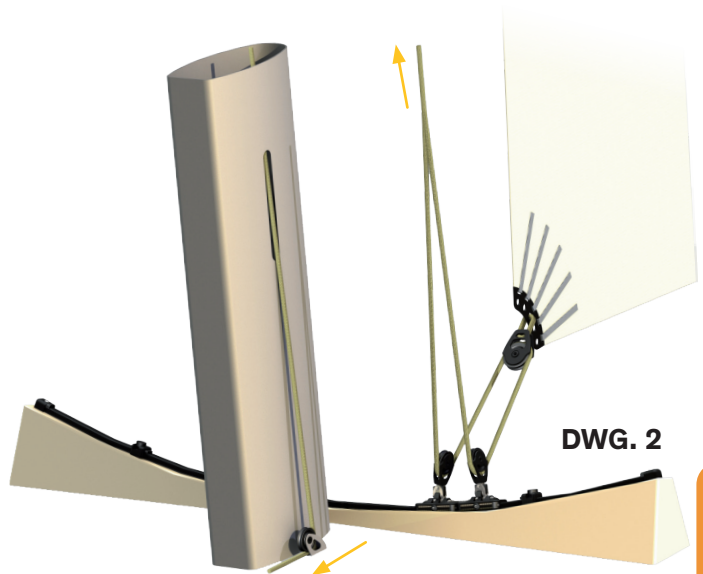
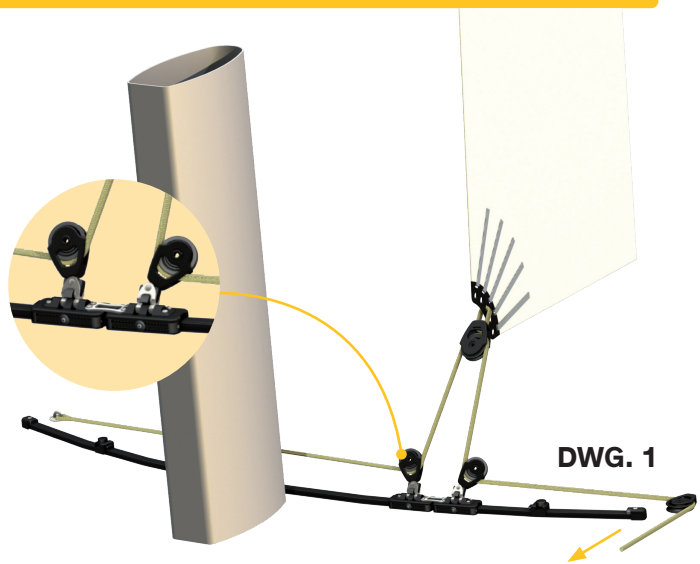
In the second solution (**DWG. 2 and 3**) the sheet climbs up the mast then down and to the cockpit as a halyard. In this case the track will be curved vertically and trimmed forward.

Travellers with one or two sheet blocks will be used. Double cars are often considered because a shorter car accepts a smaller radius. To control the traveller moving it will be useful to consider also two side stop-pins (**MOD. 4290**) and consequently the track for stop pin (**MOD. 4520**).

Systems of drawings 1 and 2 are obtained with 2×110 mm travellers and 2×70 mm blocks (for boats up to 50 ft), or 2×150 mm travellers and 2×80 mm blocks (for boats over 50 ft).



MODEL	R mm	SWL kg	WEIGHT kg	AxB kg	SHACKLE HR mm
JB06	110	1000	0.10	6×18	6
JB08	150	1800	0.25	7×20	8
JB10	210	3000	0.60	7×24	10
JB12	270	5000	1.60	8×40	12
JB14	385	7000	3.85	12×50	14



antal