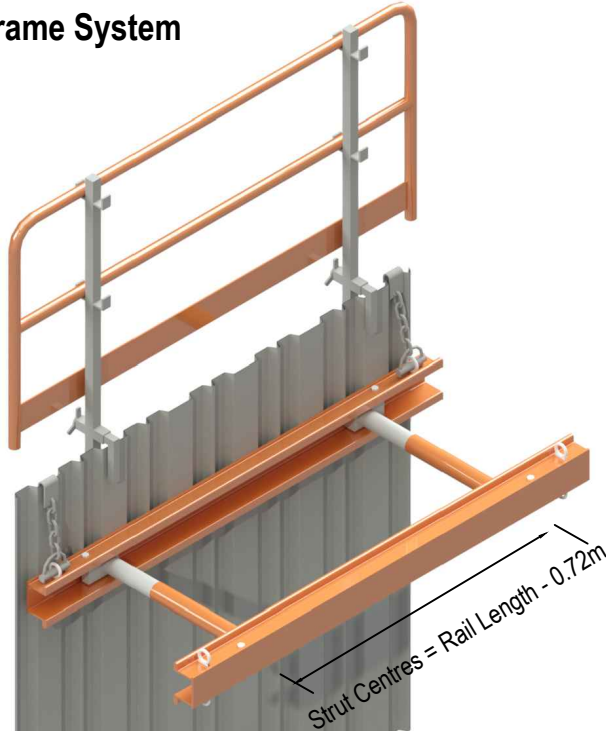


Aluminium Waler Information Sheet

Waler Frame System



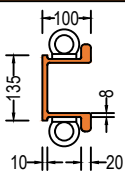
Length	Permissible Load	Struts Req'd	Min Width	Max Width by ram type (m)			Max Frame Weight
m	kN/m		m	A*	C	C1	kg
1.50	80	2no	0.50	2.00	2.00	2.73	110
2.00	56	2no	0.50	2.00	2.00	2.73	121
2.50	48	2no	0.50	2.00	2.00	2.73	132
3.00	30	2no	0.50	1.80	2.00	2.73	143
3.50	36	3no	0.50	1.80	2.00	2.73	193
4.00	30.5	3no	0.50	1.80	2.00	2.73	204
5.00	23	3no	0.50	1.80	2.00	2.73	226

Please note that 3 Struts are required on rails 3.5m and above.

*For Type A spindle options please refer to the below chart.

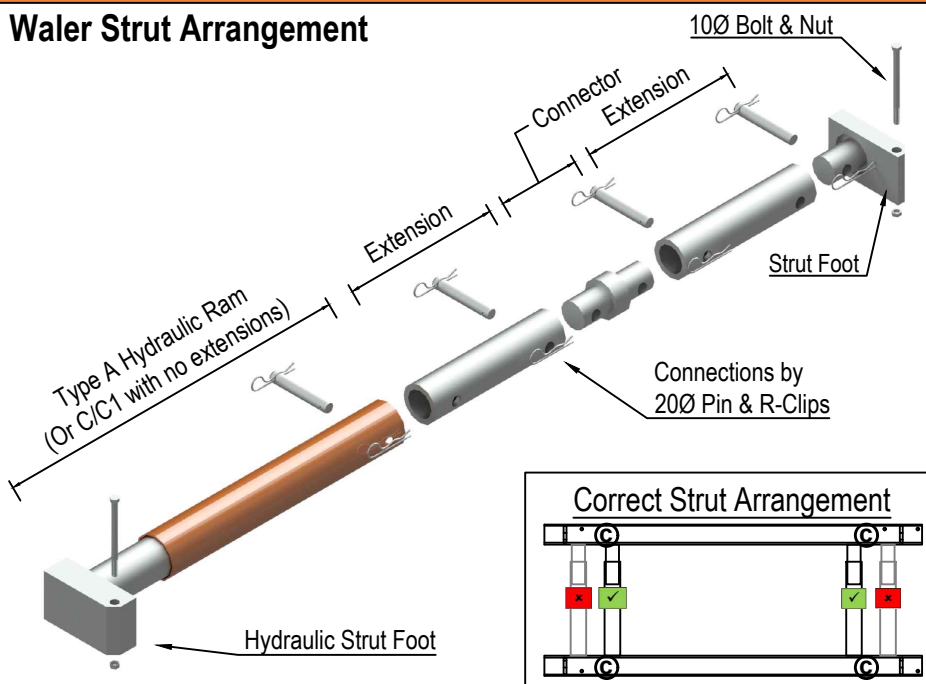
Ram Combination	Sheet to Sheet Range (m)	Components	Weight (kg)	Suitable End Bearer (m)
Type A Hydraulic Ram	0.50 - 0.82	Ram A only	13.0	Type A
Ram A-1	0.80 - 1.12	Ram A+0.3	15.5	Type B (0.78-1.31m)
Ram A-2	1.10 - 1.42	Ram A+0.3+0.3, or, Ram A+0.5+0.1	18.0	Type B (0.78-1.31m)
Ram A-3	1.40 - 1.72	Ram A+0.5+0.2+0.2, or, Ram A+0.3+0.3+0.3	20.5	Type C (1.26-2.01m)
Ram A-4	1.70 - 2.02	Ram A+1.0+0.2, or, Ram A+0.5+0.5+0.2	21.0	Type C (1.26-2.01m)
Type C Hydraulic Ram	1.28 - 2.03	Ram C only	24.0	Type C (1.26-2.01m)
Type C-1 Hydraulic Ram	1.98 - 2.73	Ram C with C-1 Sleeve only	38.5	N/A

Aluminium Waler Rail



Permissible Moment	Moment of Inertia	Section Modulus	Weight
kNm	cm ⁴	cm ³	kg/m
18	561	117	11

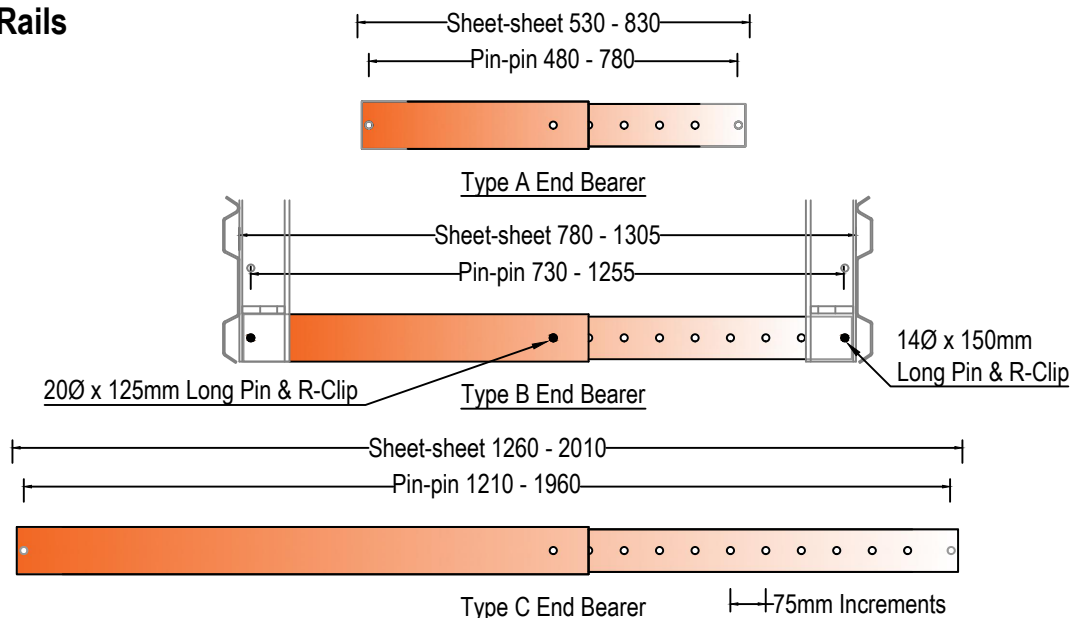
Waler Strut Arrangement



Item	Weight kg
1.5m Rail	16.5
2.0m Rail	22.0
2.5m Rail	27.5
3.0m Rail	33.0
3.5m Rail	38.5
4.0m Rail	44.0
5.0m Rail	55.0
Type A Hydraulic Ram	13.0
Type C Hydraulic Ram	24.0
Type C-1 Hydraulic Ram	38.5
Strut Foot	3.1
0.10m Extension	1.0
0.20m Extension	1.8
0.30m Extension	2.5
0.50m Extension	3.1
1.0m Extension	6.2

Aluminium Waler Information Sheet

End Bearing Rails



End Bearer	Min Width <i>m</i>	Max Width <i>m</i>	Individual Weight <i>kg</i>	Permissible Load (Max length) <i>kN/m</i>	Permissible Load (Min length) <i>kN/m</i>
Type A	0.53	0.83	13.0	60.5	80.0
Type B	0.78	1.31	16.5	38.3	64.4
Type C	1.26	2.01	24.0	20.8	39.8

The design permissible load may be lower than shown here. The End Bearer may be controlled by the main waler system, always check the permissible load of both the Aluminium Waler & End Bearer. To be confirmed by a TWD or contact SEL for further advice.

