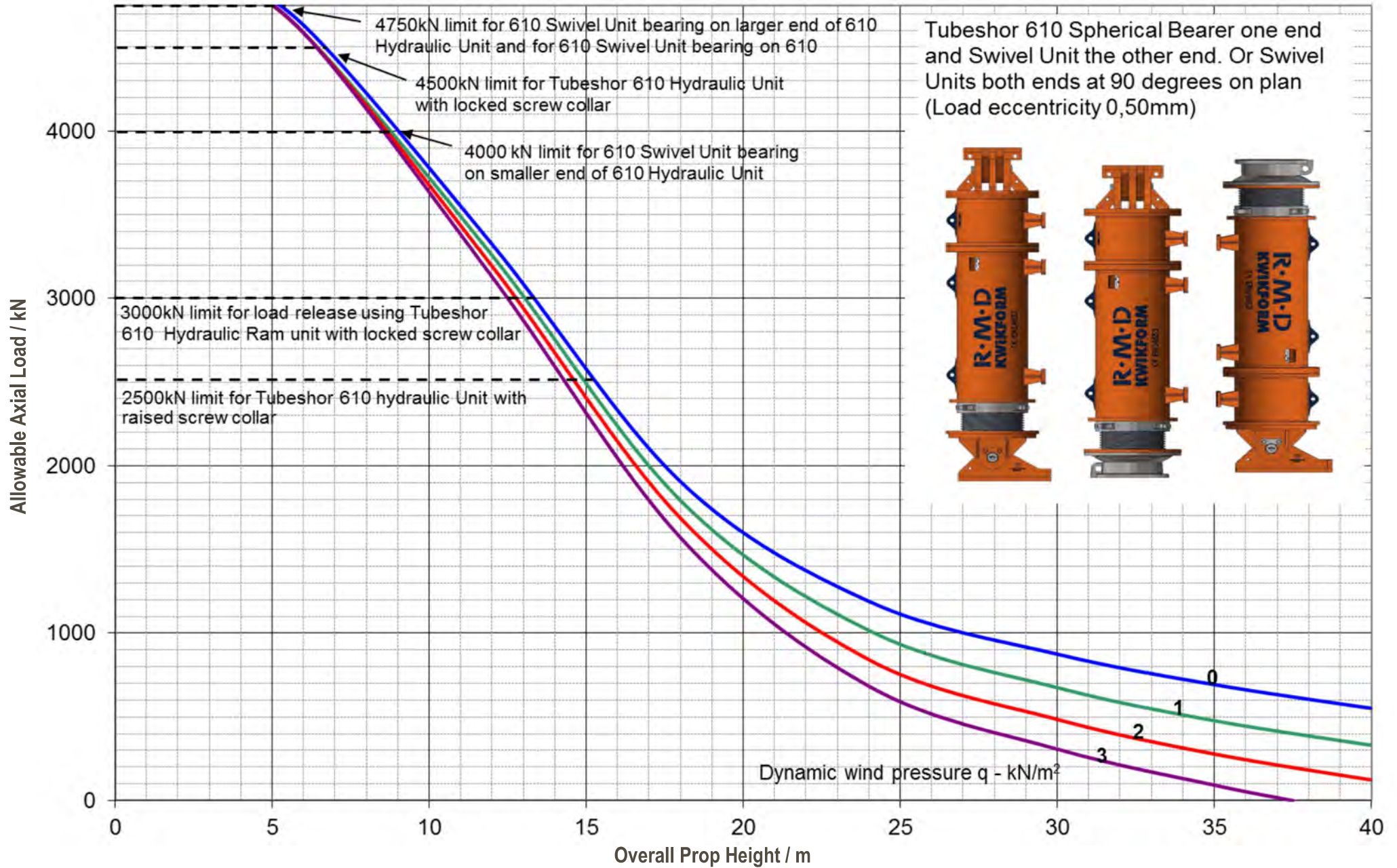
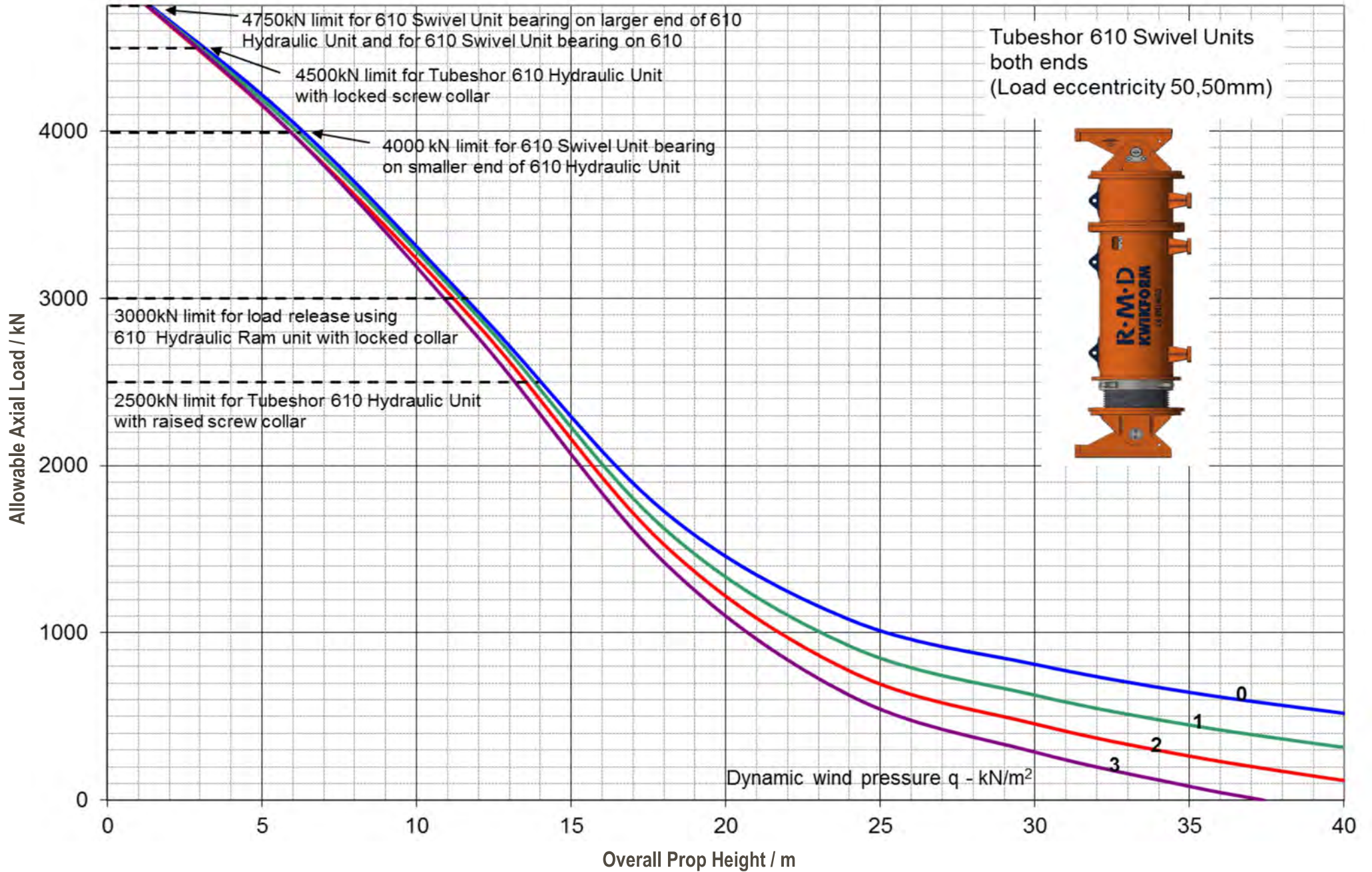


Vertical Tubeshor 610 Allowable Axial Load

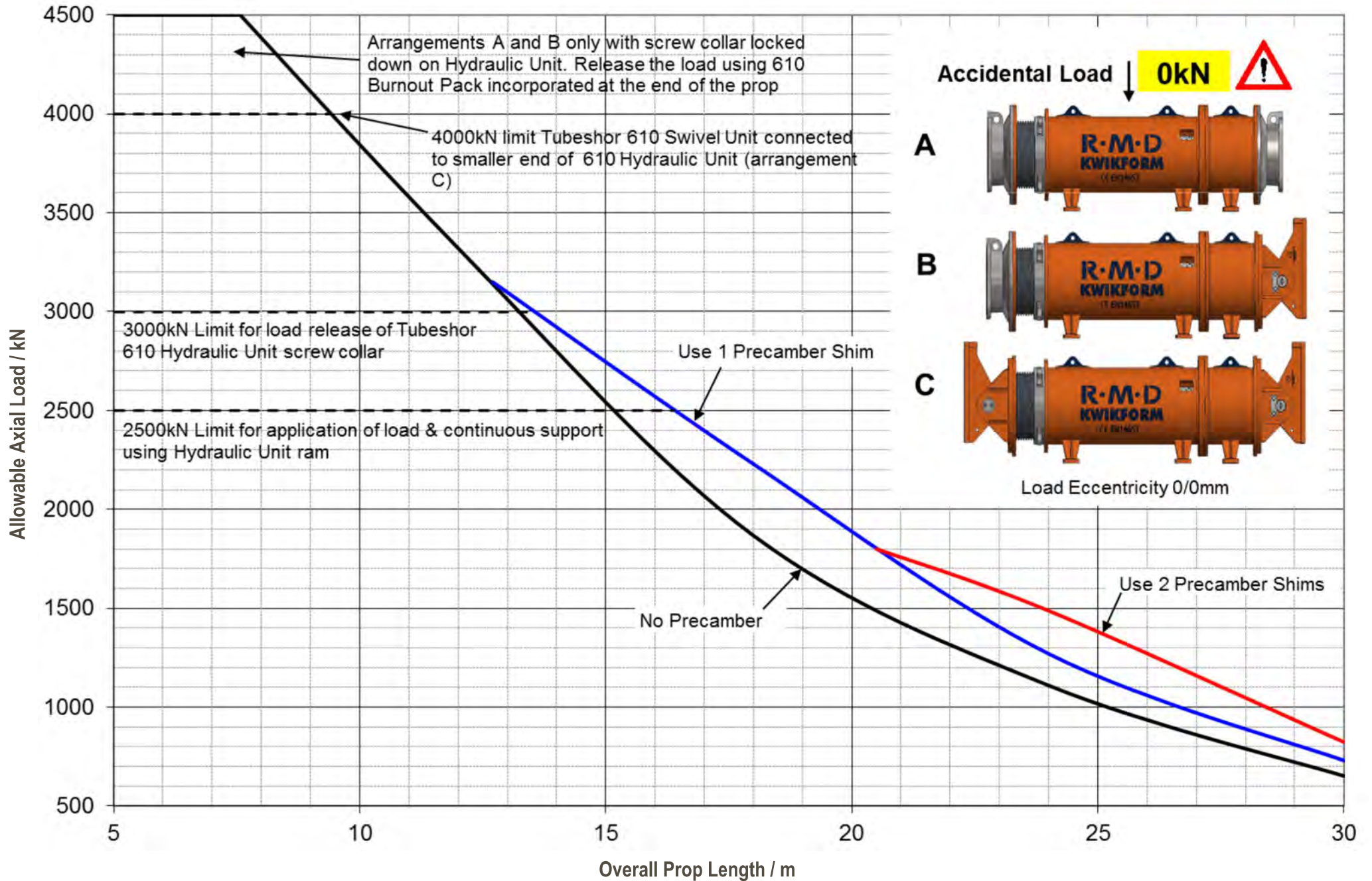


Vertical Tubeshor 610 Allowable Axial Load

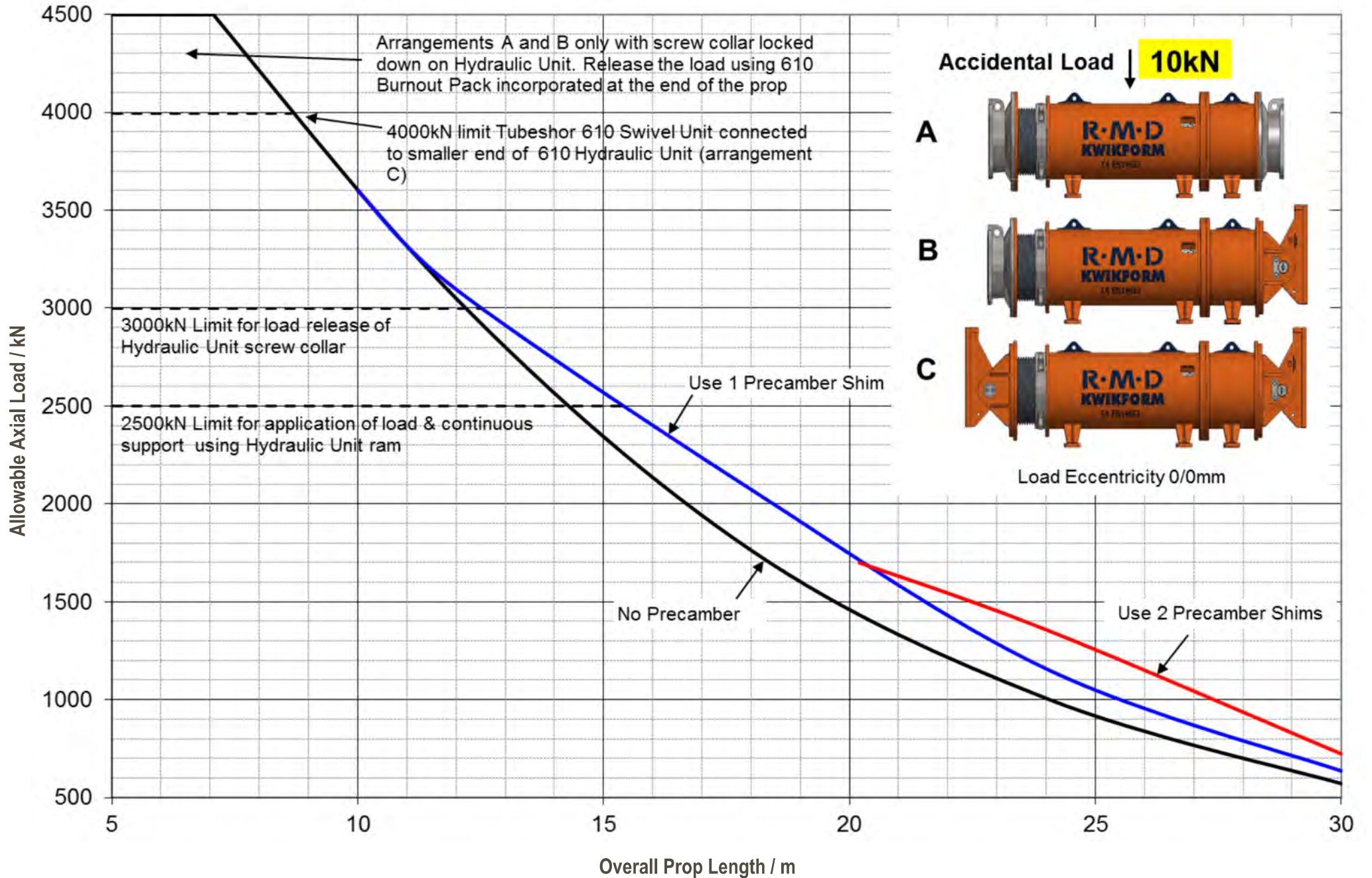
Chart 610/V3



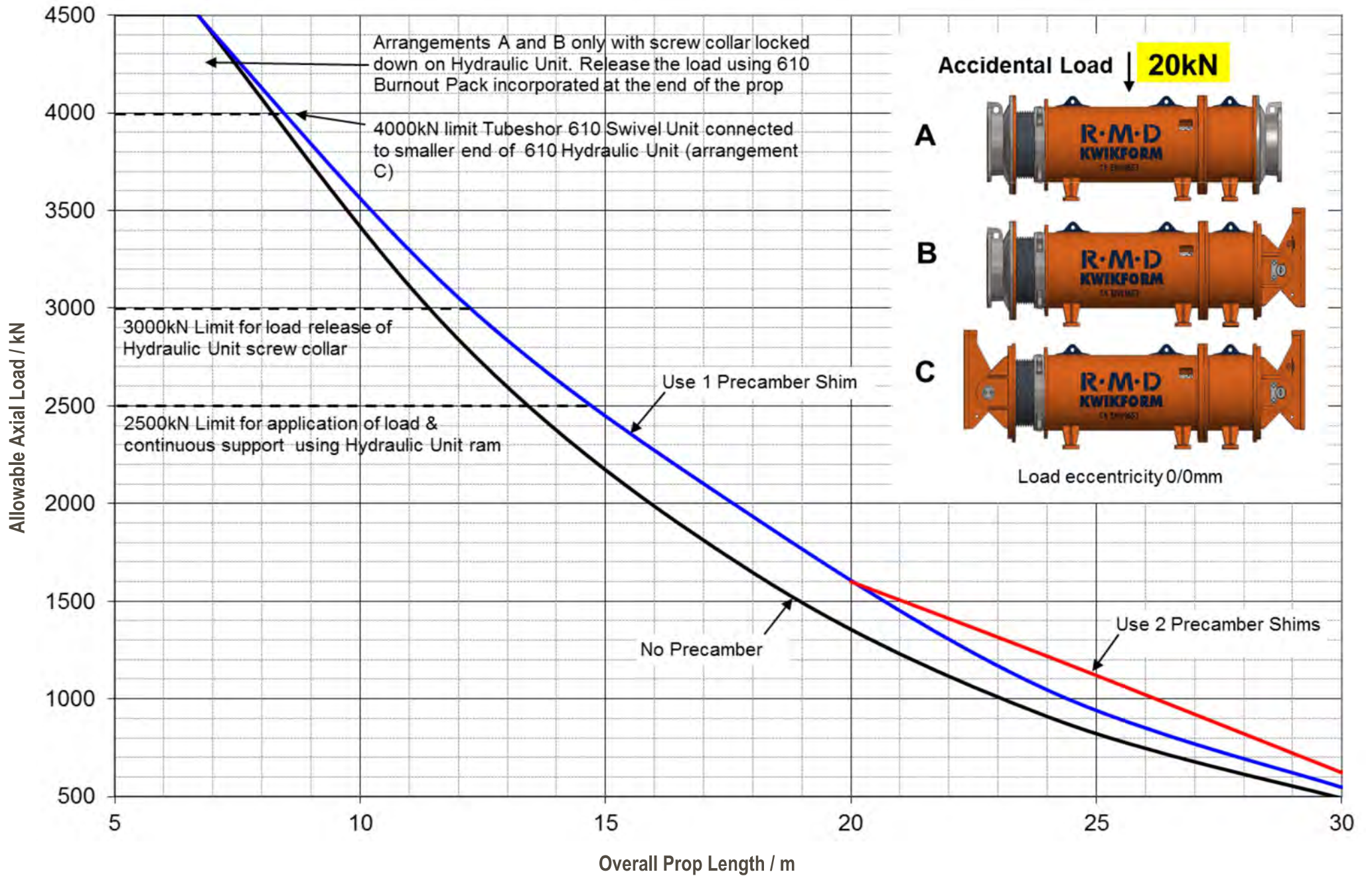
Horizontal Tubeshor 610 Allowable Axial Loads



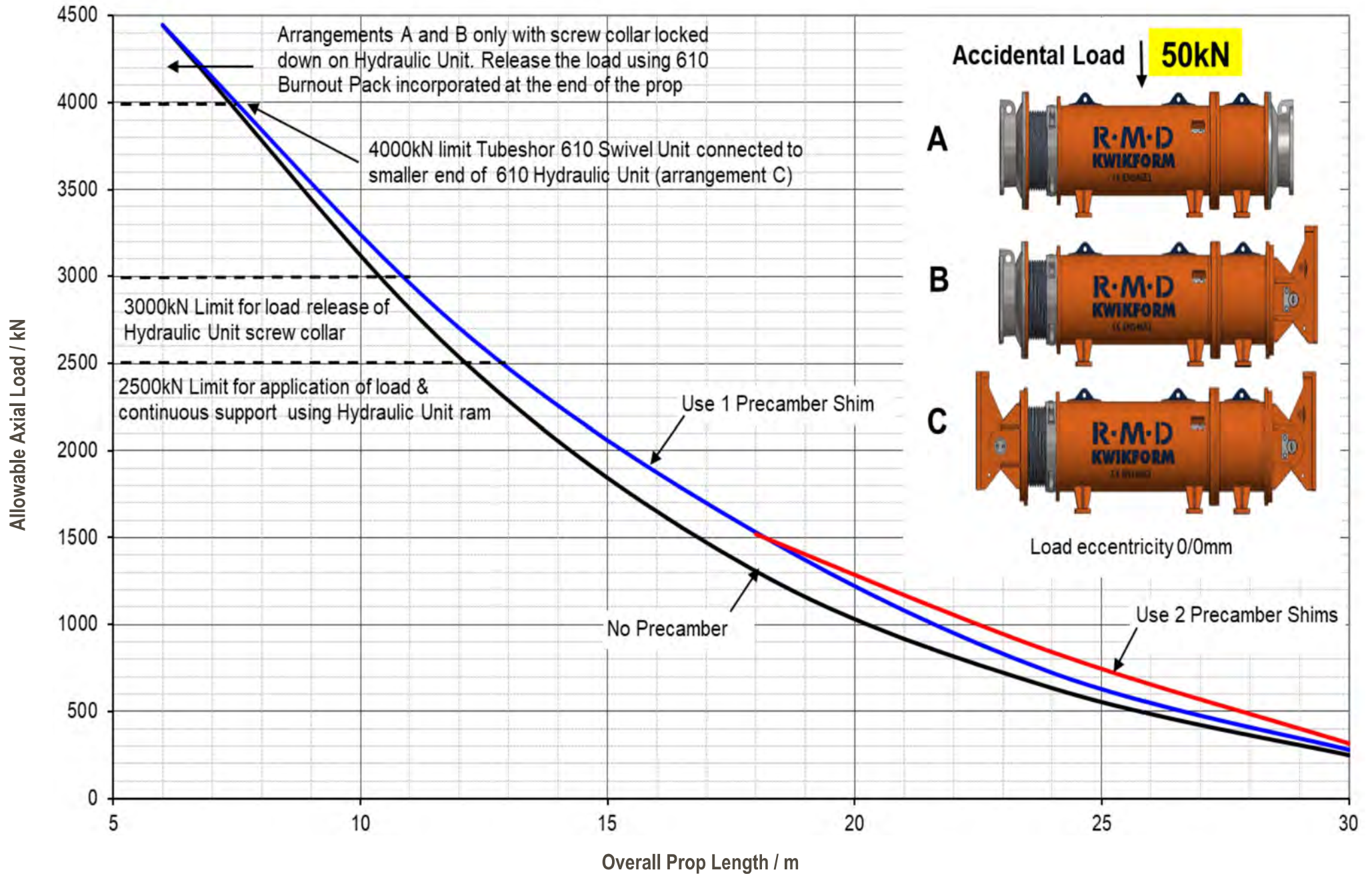
Horizontal Tubeshor 610 Allowable Axial Loads



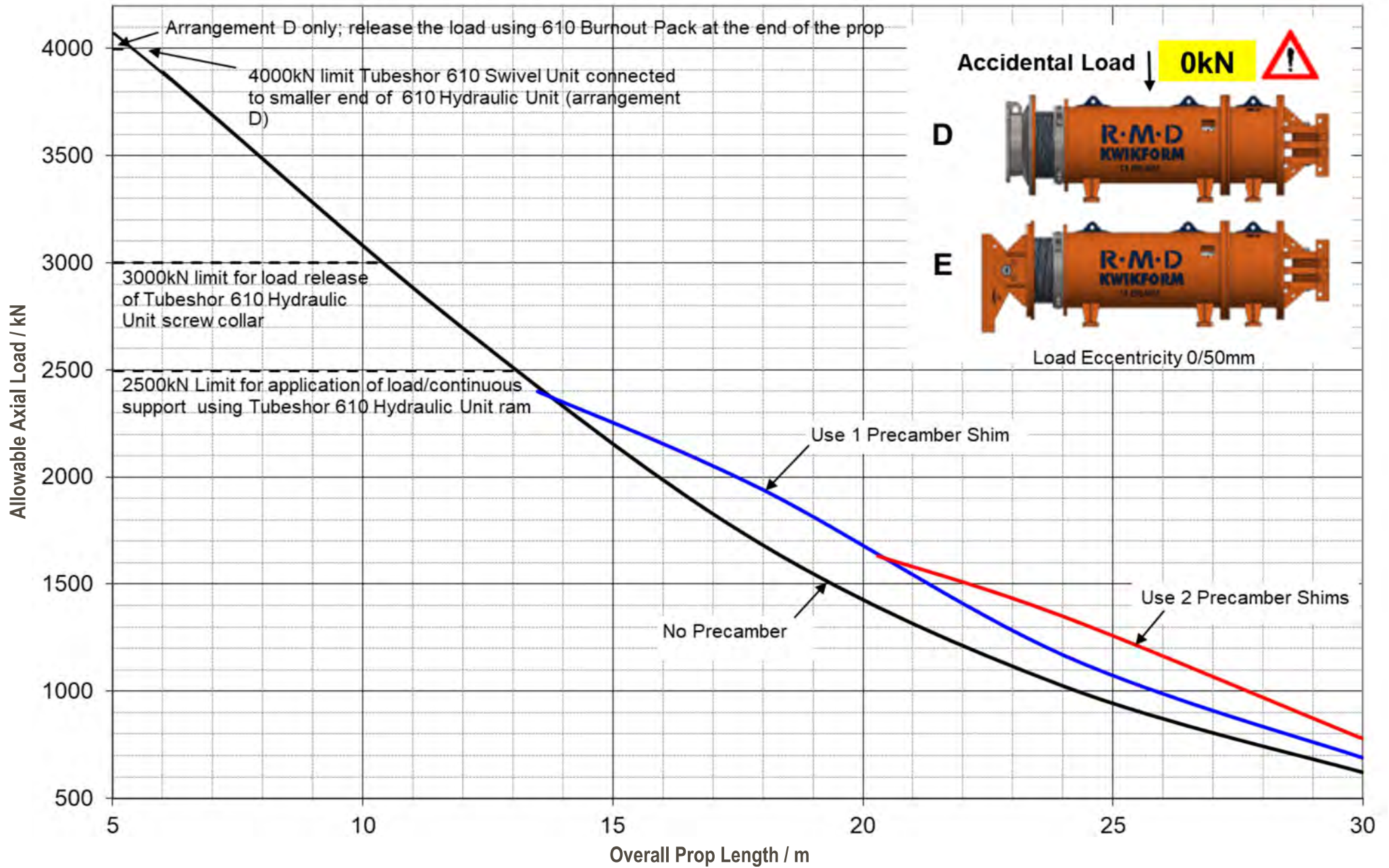
Horizontal Tubeshor 610 Allowable Axial Loads



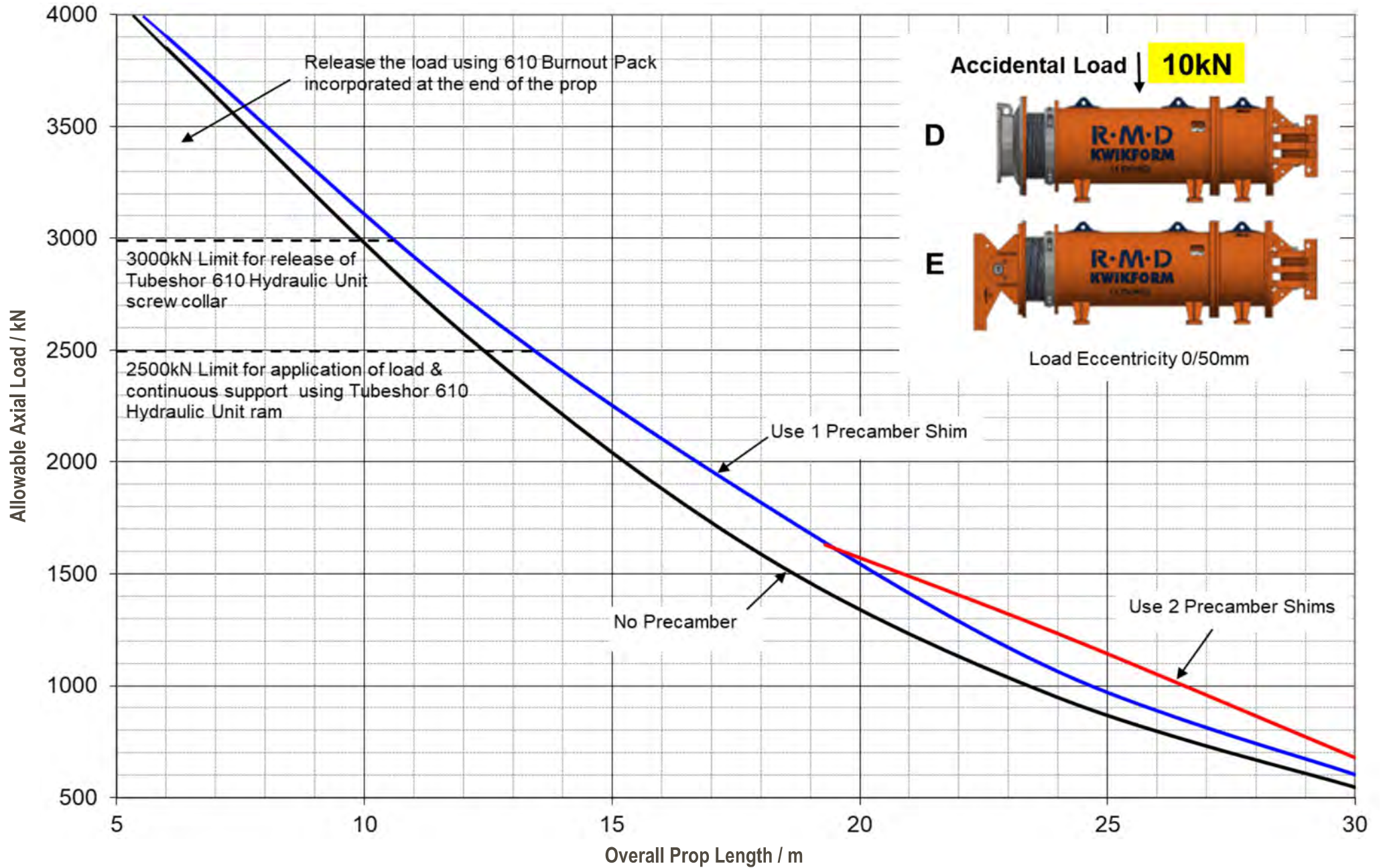
Horizontal Tubeshor 610 Allowable Axial Loads



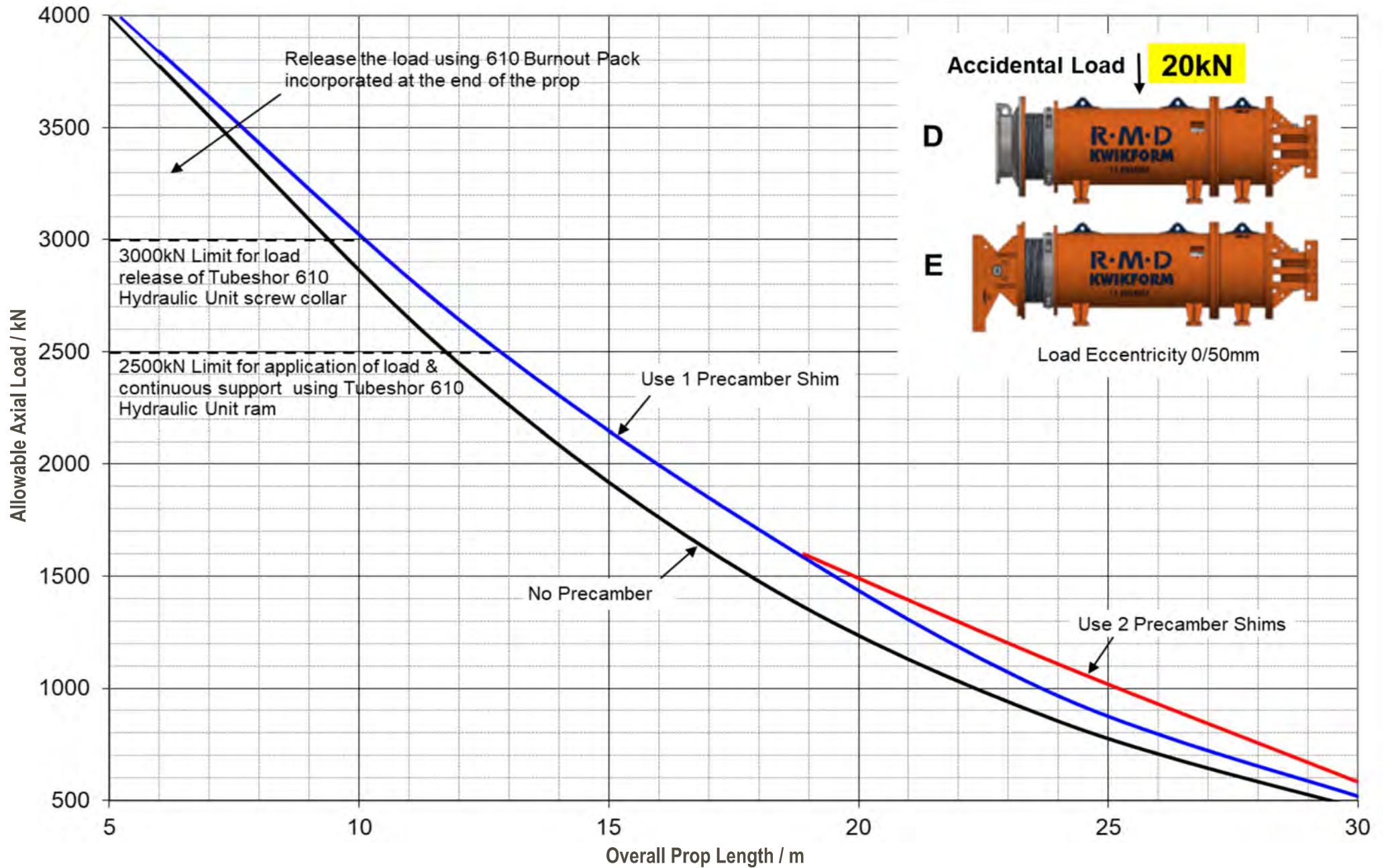
Horizontal Tubeshor 610 Allowable Axial Loads



Horizontal Tubeshor 610 Allowable Axial Loads

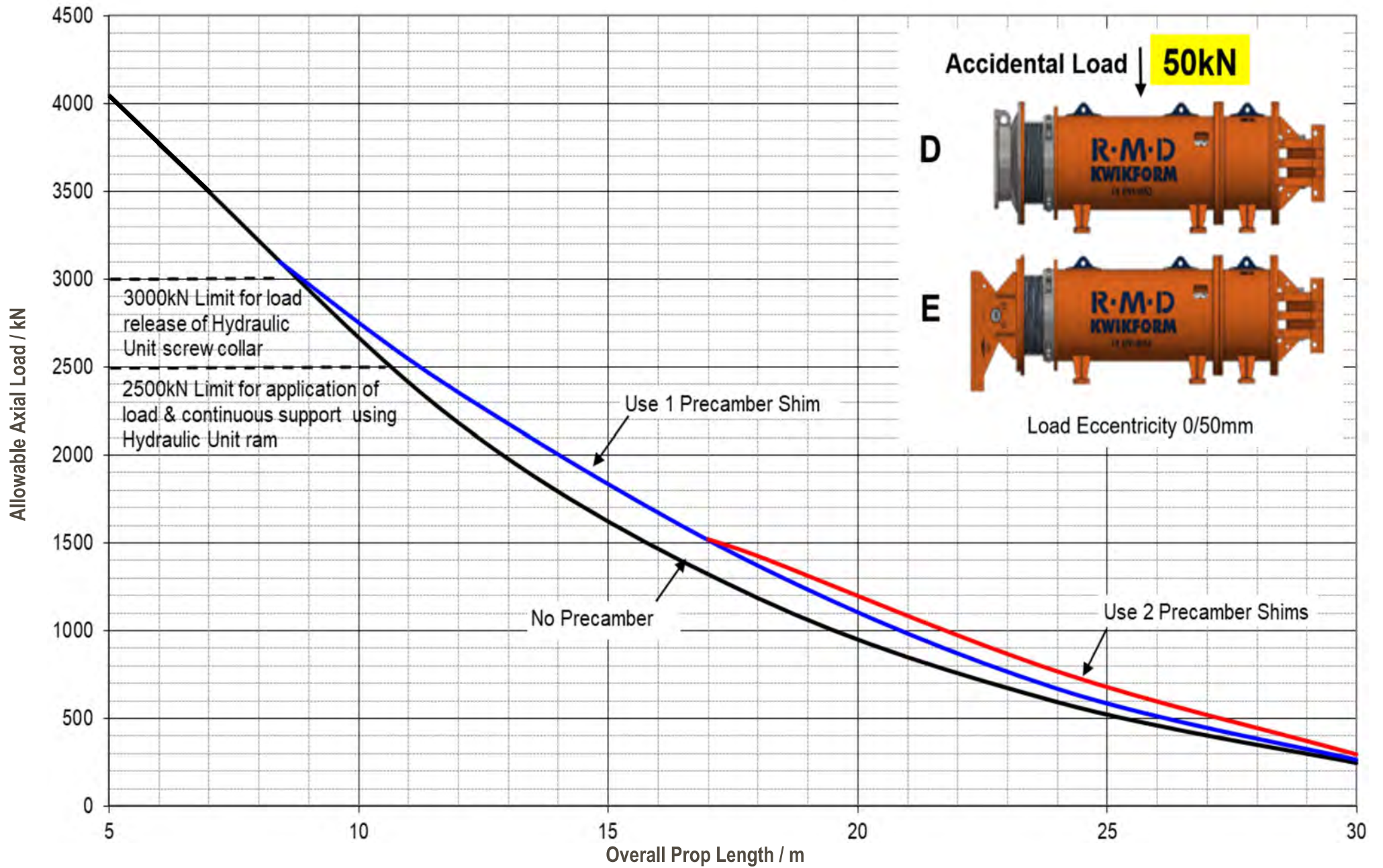


Horizontal Tubeshor 610 Allowable Axial Loads



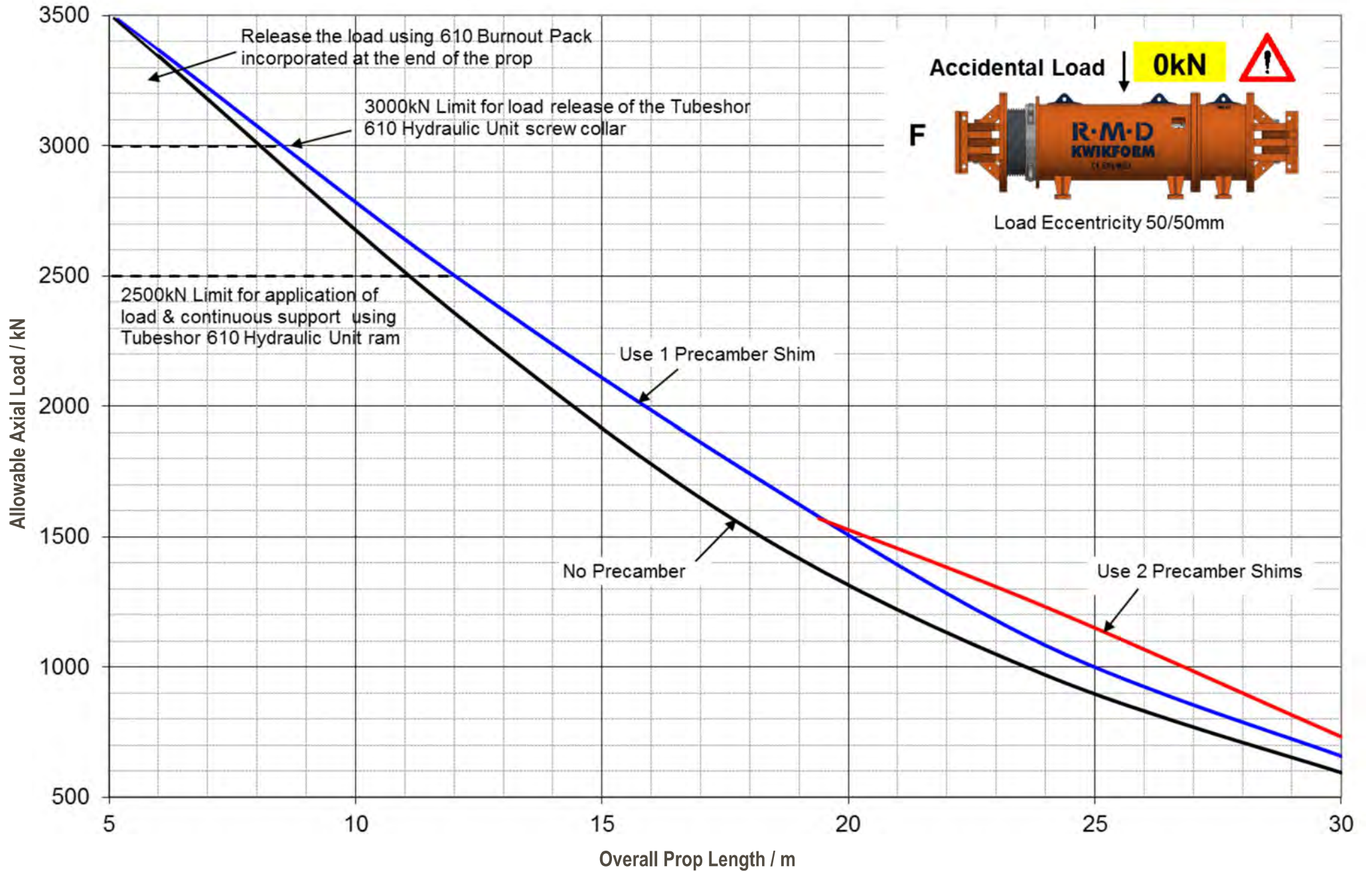
Horizontal Tubeshor 610 Allowable Axial Loads

Chart 610/H8

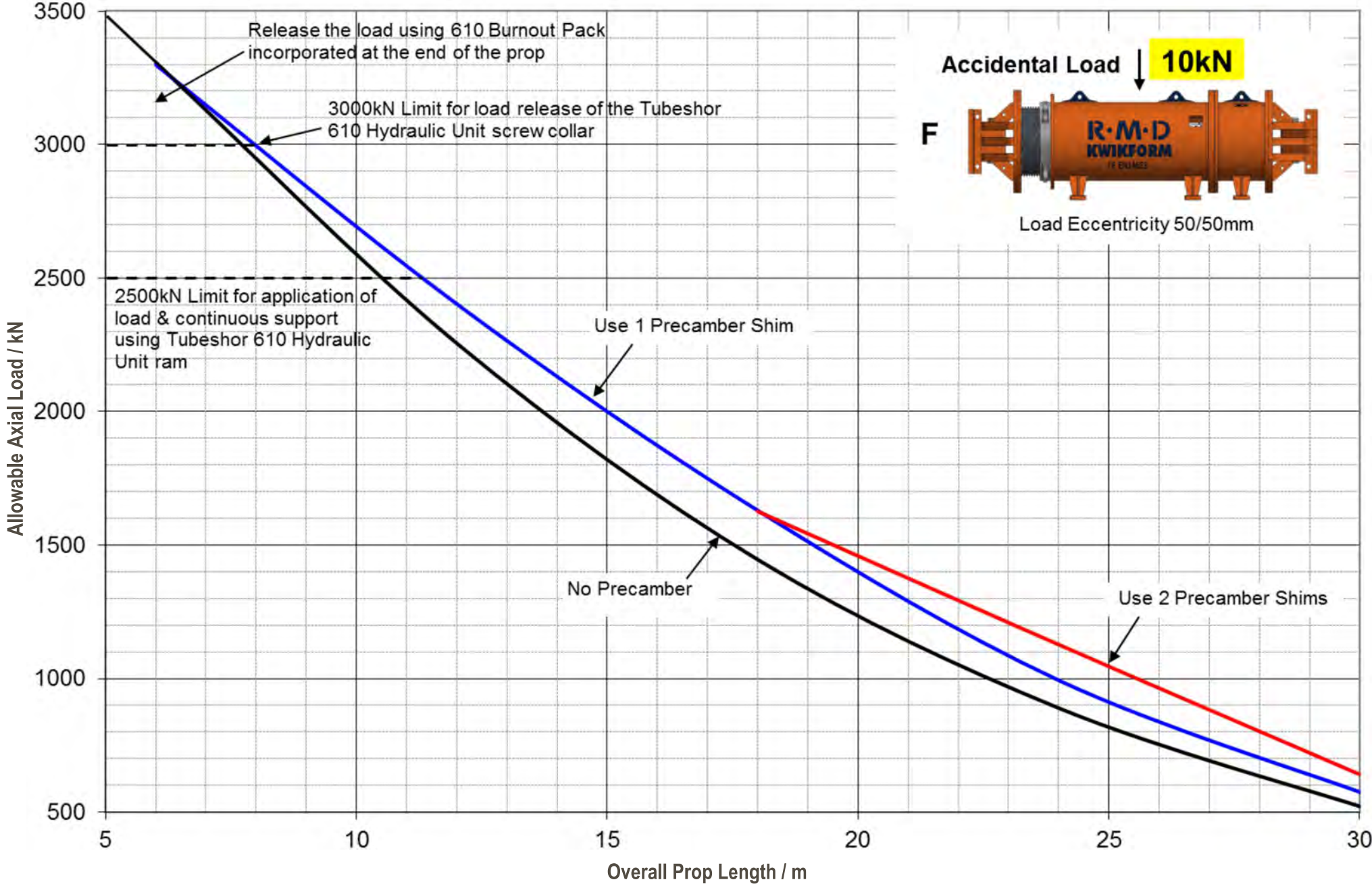


Horizontal Tubeshor 610 Allowable Axial Loads

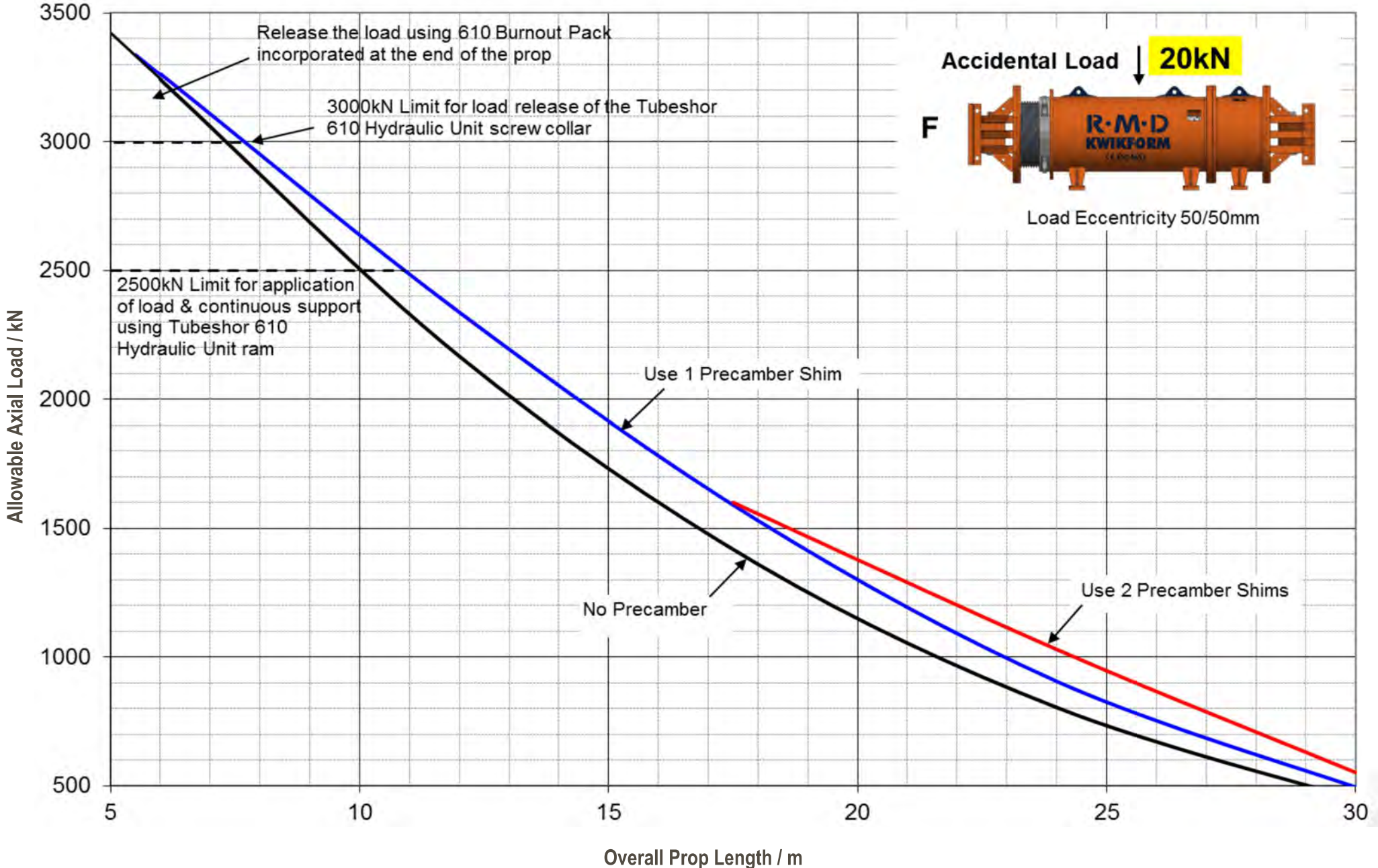
Chart 610/H9



Horizontal Tubeshor 610 Allowable Axial Loads

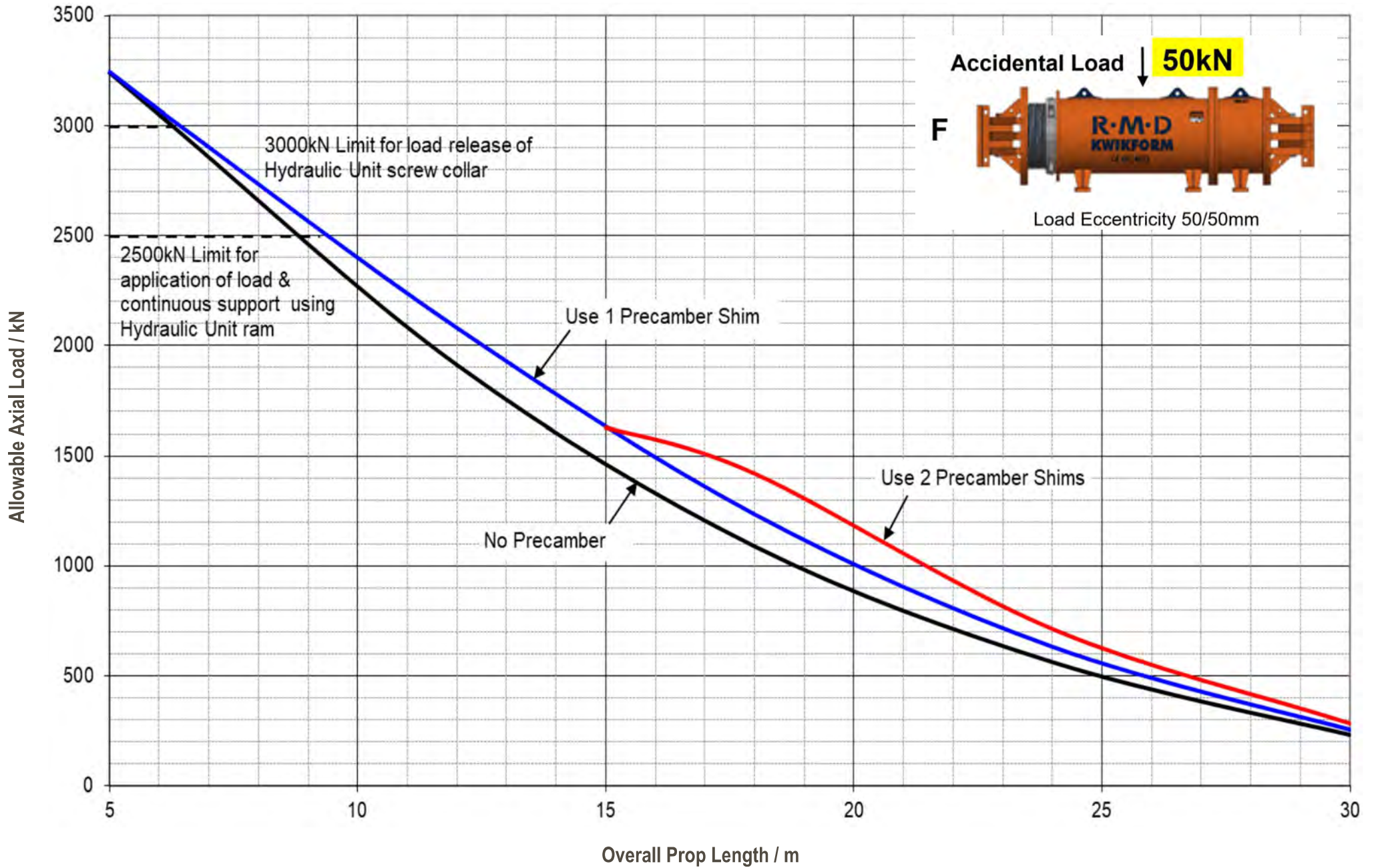


Horizontal Tubeshor 610 Allowable Axial Loads



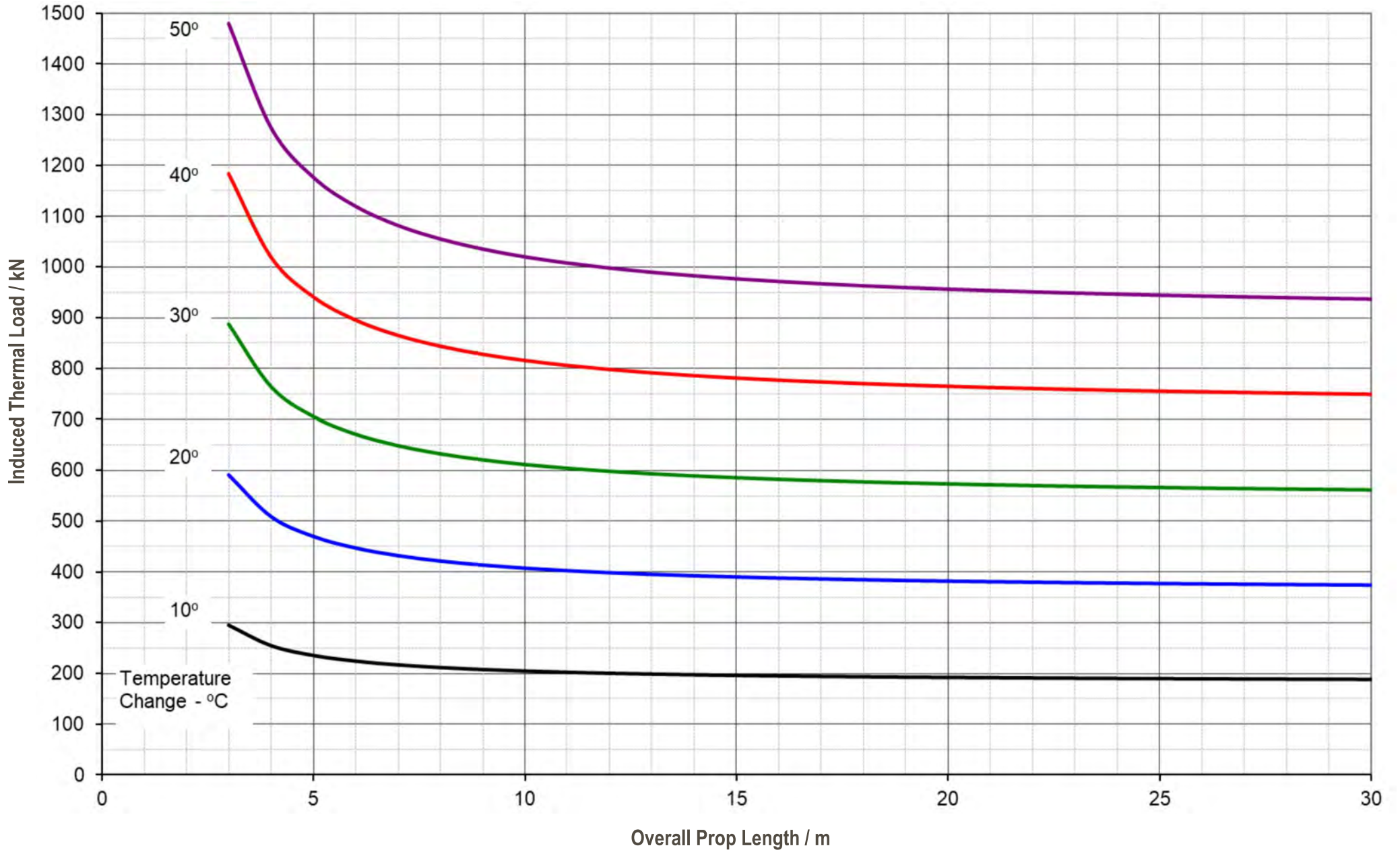
Horizontal Tubeshor 610 Allowable Axial Loads

Chart 610/H12



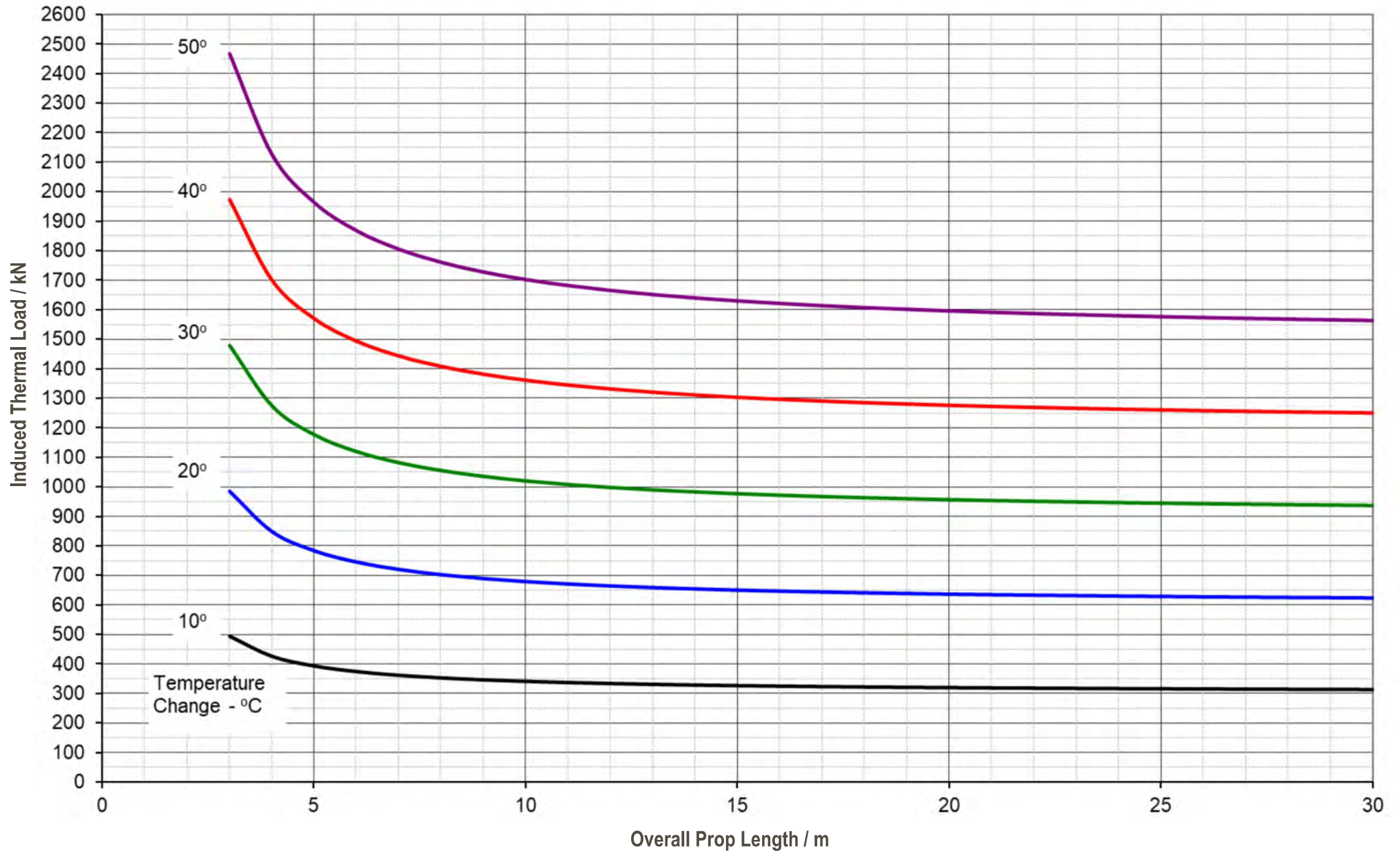
Unfactored Thermal Loads in Tubeshor 610 props - Sheet Pile Wall Excavations Screw Collar Locked, Wall Stiffness Factor $\beta = 0.3$, Any Duration

Chart 610/T1



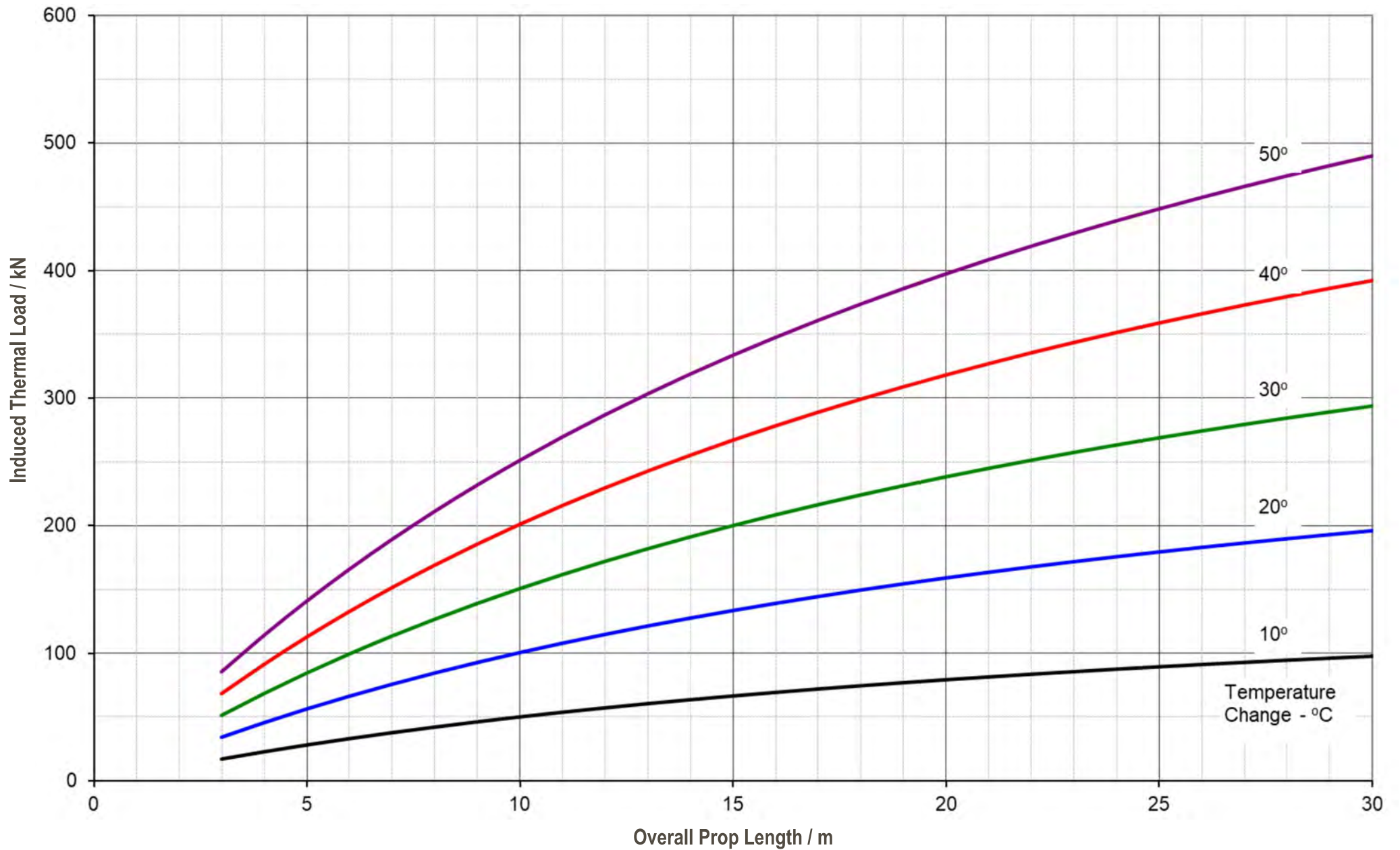
Unfactored Thermal Loads in Tubeshor 610 props - Concrete Pile Wall Excavations Screw Collar Locked, Wall Stiffness Factor $\beta = 0.5$, Any Duration

Chart 610/T2



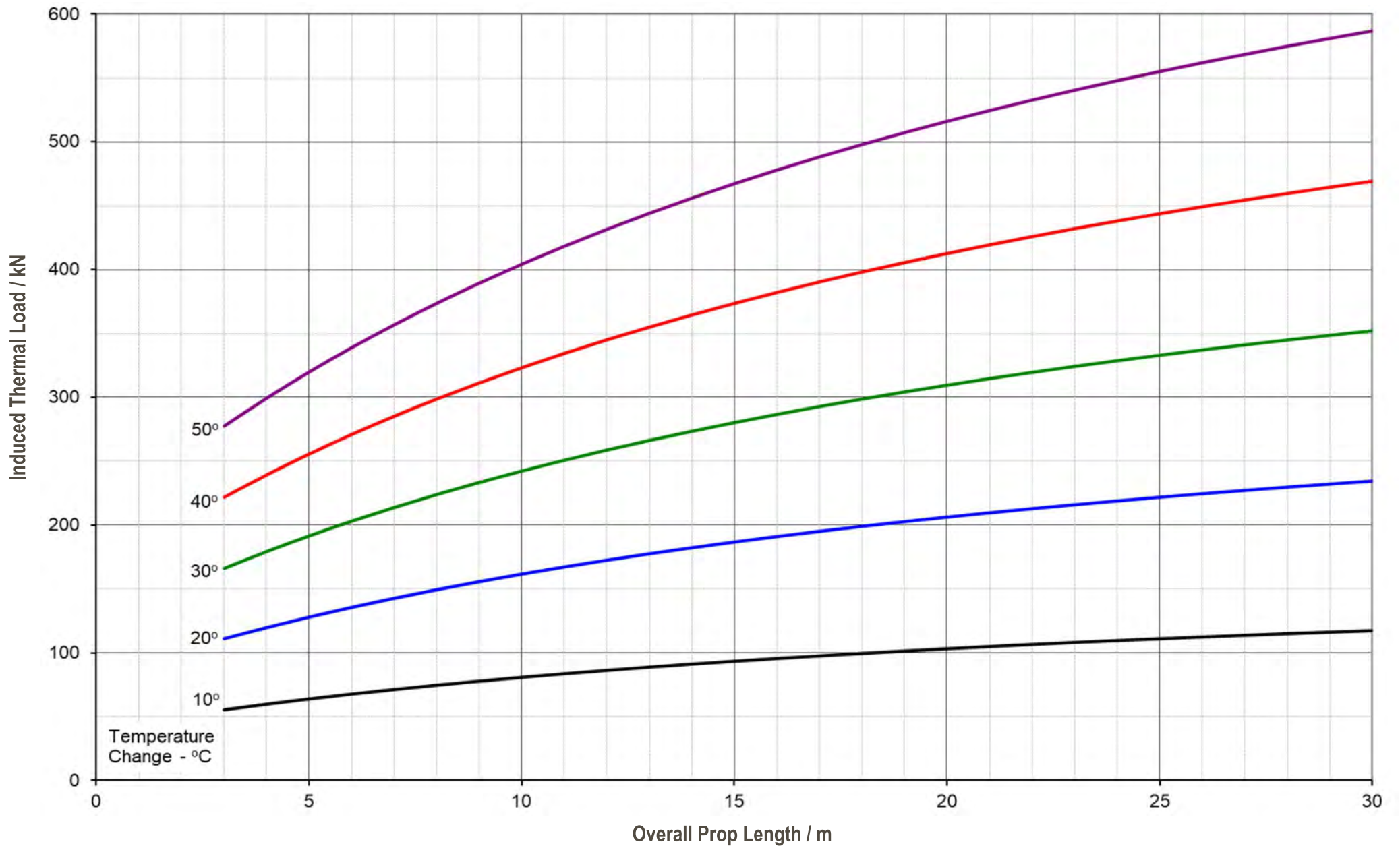
Unfactored Thermal Loads in Tubeshor 610 props - Sheet Pile Wall Excavations
Screw Collar Raised, Wall Stiffness Factor $\beta = 0.3$, δT Hydraulic Oil = Zero, Short Term

Chart 610/T3



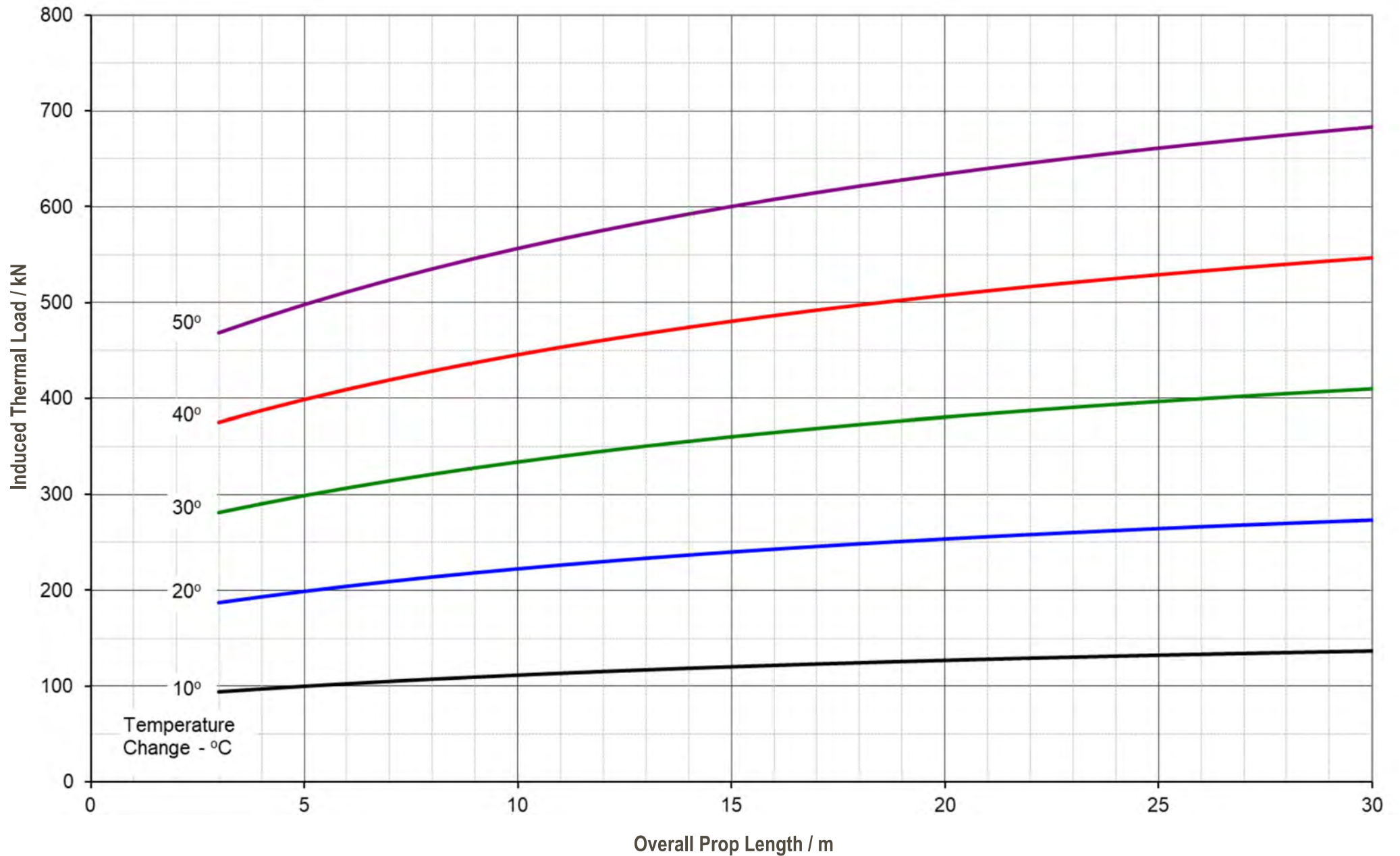
Unfactored Thermal Loads in Tubeshor 610 props - Sheet Pile Wall Excavations
Screw Collar Raised, Wall Stiffness Factor $\beta = 0.3$, δT Hydraulic Oil = 25% δT Prop, Medium Term

Chart 610/T4



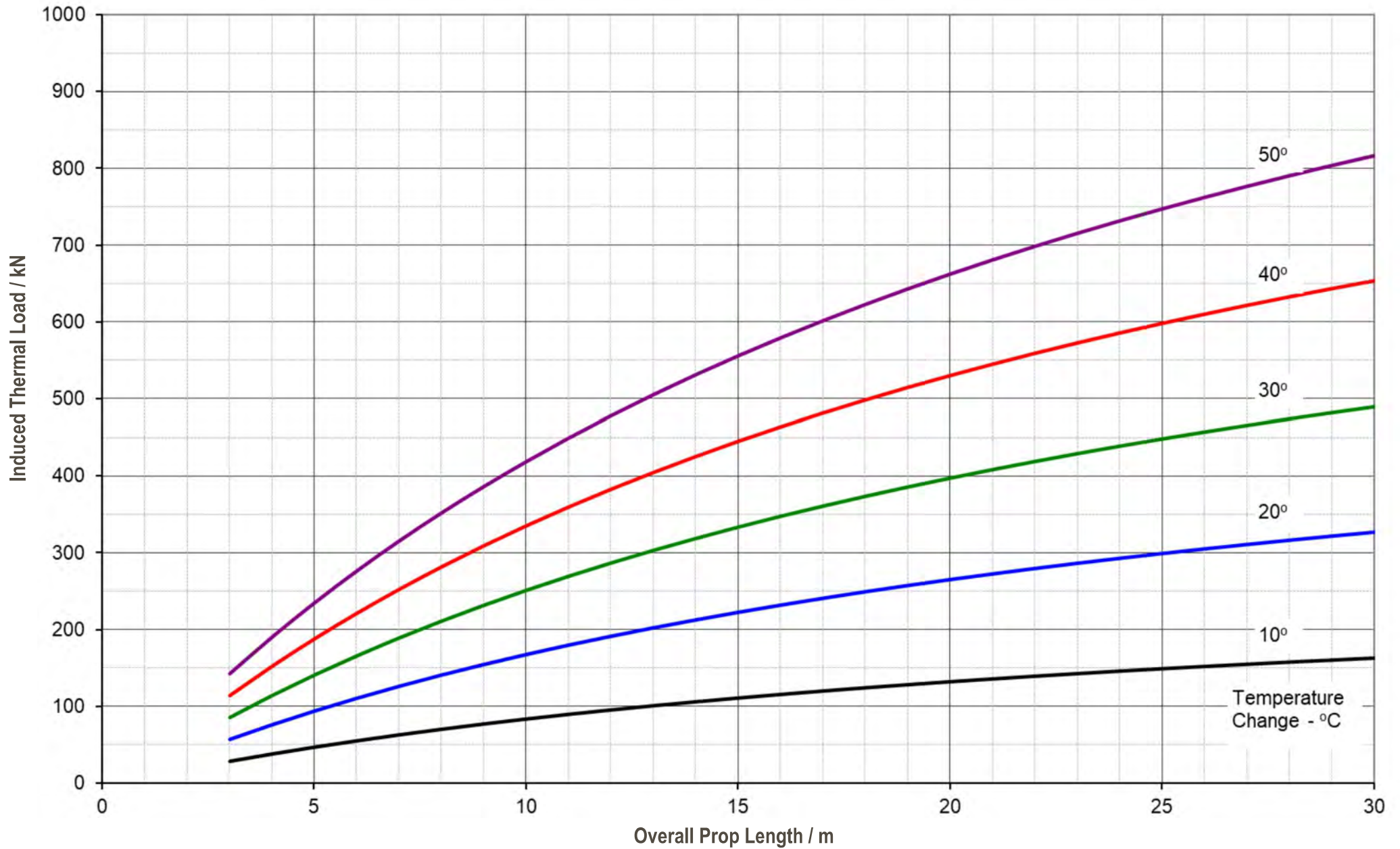
Unfactored Thermal Loads in Tubeshor 610 props - Sheet Pile Wall Excavations
Screw Collar Raised, Wall Stiffness Factor $\beta = 0.3$, δT Hydraulic Oil = 50% δT Prop, Long Term

Chart 610/T5



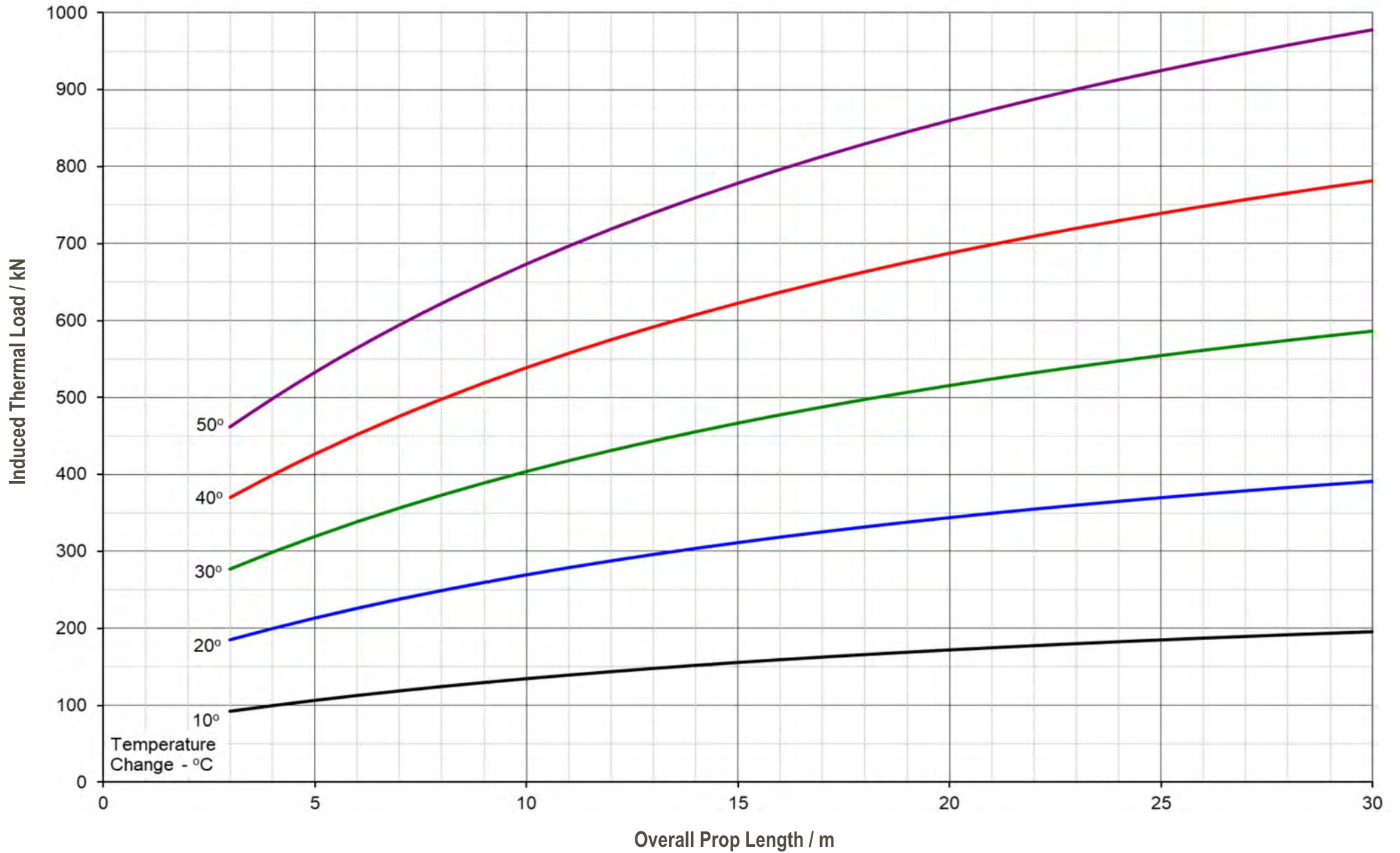
Unfactored Thermal Loads in Tubeshor 610 props - Concrete Wall Excavations

Screw Collar Raised, Wall Stiffness Factor $\beta = 0.5$, ΔT Hydraulic Oil = Zero, Short Term



Unfactored Thermal Loads in Tubeshor 610 props - Concrete Wall Excavations
Screw Collar Raised, Wall Stiffness Factor $\beta = 0.5$, δT Hydraulic Oil = 25% δT Prop, Medium Term

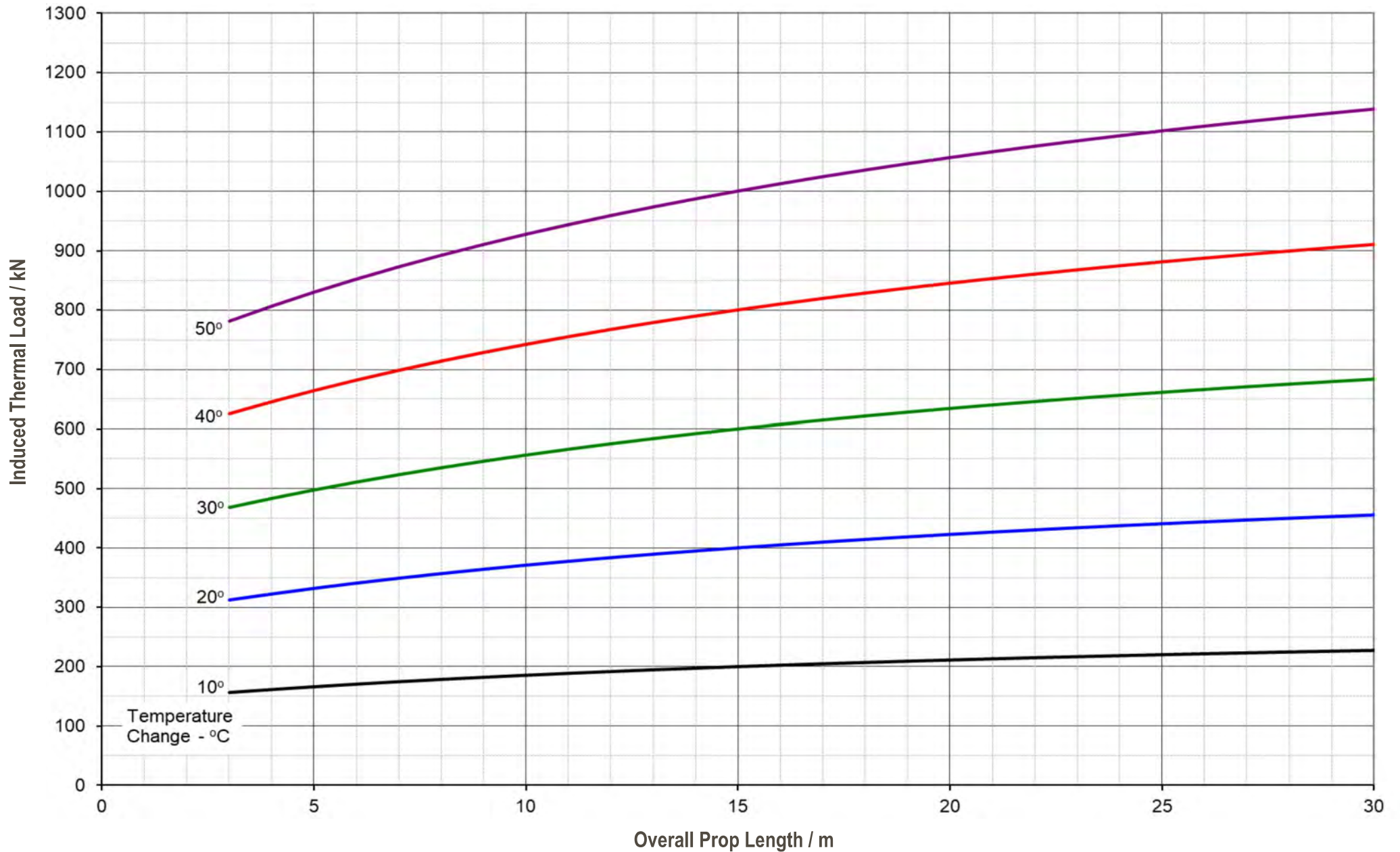
Chart 610/T7



Unfactored Thermal Loads in Tubeshor 610 props - Concrete Wall Excavations

Screw Collar Raised, Wall Stiffness Factor $\beta = 0.5$, δT Hydraulic Oil = 50% δT Prop, Long Term

Chart 610/T8



TUBESHOR 610

TUBULAR SHORING SYSTEM



Table 1 - Component Make-up for a Tubeshor 610 Prop Assembly with Plain Swivel Units Each End

Length of Prop 'L' (mm) (Working Dimensions)	min		max		TGX06202 Plain Swivel Unit Assy	TGX06201 Ram Unit 1675-2475 mm	TGX06005 610 Extension 0,5m	TGX06010 610 Extension 1,0m	TGX06020 610 Extension 2,0m	TGX06030 610 Extension 3,0m	TGX06040 610 Extension 4,0mm	TGX06070 610 Extension 7,0m	TGX06115 610 Extension 11,5m	BNX30100 M30x100 gr8,8 Bolts	BNX30005 M30 Hex Nuts gr8	Weight (kg)
1	2595	3395	2	1										20	20	3540
2	3095	3895	2	1	1									32	32	3770
3	3595	4395	2	1	1	1								32	32	3880
4	4095	4895	2	1	1	1	1							46	46	4110
5	4595	5395	2	1	1	1	1	1						32	32	4090
6	5095	5895	2	1	1	1	1	1						46	46	4310
7	5595	6395	2	1	1	1	1	1	1					32	32	4280
8	6095	6895	2	1	1	1	1	1	1					46	46	4500
9	6595	7395	2	1	1	1	1	1	1	1				32	32	4470
10	7095	7895	2	1	1	1	1	1	1	1	1			46	46	4690
11	7595	8395	2	1	1	1	1	1	1	1	1			46	46	4800
12	8095	8895	2	1	1	1	1	1	1	1	1			60	60	5050
13	8595	9395	2	1	1	1	1	2	2	2	2			46	46	5010
14	9095	9895	2	1	1	1	1	2	2	2	2			60	60	5240
15	9595	10395	2	1	1	1	1	2	2	2	2	1		32	32	5030
16	10095	10895	2	1	1	1	1	2	2	2	2	1		46	46	5260
17	10595	11395	2	1	1	1	1	2	2	2	2	1		46	46	5370
18	11095	11895	2	1	1	1	1	2	2	2	2	1		60	60	5620
19	11595	12395	2	1	1	1	1	2	2	2	2	1		46	46	5580
20	12095	12895	2	1	1	1	1	2	2	2	2	1		60	60	5800
21	12595	13395	2	1	1	1	1	2	2	2	2	1		46	46	5770
22	13095	13895	2	1	1	1	1	2	2	2	2	1		60	60	6000
23	13595	14395	2	1	1	1	1	2	2	2	2	1		46	46	5960
24	14095	14895	2	1	1	1	1	2	2	2	2	1		60	60	6180
25	14595	15395	2	1	1	1	1	2	2	2	2	1		60	60	6290
26	15095	15895	2	1	1	1	1	2	2	2	2	1		74	74	6540
27	15595	16395	2	1	1	1	1	2	2	2	2	1		60	60	6500
28	16095	16895	2	1	1	1	1	2	2	2	2	1		74	74	6730
29	16595	17395	2	1	1	1	1	2	2	2	2	1		46	46	6520
30	17095	17895	2	1	1	1	1	2	2	2	2	1		60	60	6750
31	17595	18395	2	1	1	1	1	2	2	2	2	1		60	60	6860
32	18095	18895	2	1	1	1	1	2	2	2	2	1		74	74	7090
33	18595	19395	2	1	1	1	1	2	2	2	2	1		60	60	7070
34	19095	19895	2	1	1	1	1	2	2	2	2	1		74	74	7300
35	19595	20395	2	1	1	1	1	2	2	2	2	1		60	60	7260
36	20095	20895	2	1	1	1	1	2	2	2	2	1		74	74	7490
37	20595	21395	2	1	1	1	1	2	2	2	2	1		60	60	7460
38	21095	21895	2	1	1	1	1	2	2	2	2	1		74	74	7680
39	21595	22395	2	1	1	1	1	2	2	2	2	1		74	74	7780
40	22095	22895	2	1	1	1	1	2	2	2	2	1		88	88	8030
41	22595	23395	2	1	1	1	1	2	2	2	2	1		74	74	7990
42	23095	23895	2	1	1	1	1	2	2	2	2	1		76	76	8210
43	23595	24395	2	1	1	1	1	2	2	2	2	1		60	60	8020
44	24095	24895	2	1	1	1	1	2	2	2	2	1		74	74	8240
45	24595	25395	2	1	1	1	1	2	2	2	2	1		74	74	8350
46	25095	25895	2	1	1	1	1	2	2	2	2	1		88	88	8580
47	25595	26395	2	1	1	1	1	2	2	2	2	1		74	74	8560
48	26095	26895	2	1	1	1	1	2	2	2	2	1		88	88	8790
49	26595	27395	2	1	1	1	1	2	2	2	2	1		74	74	8750
50	27095	27895	2	1	1	1	1	2	2	2	2	1		88	88	8980
51	27595	28395	2	1	1	1	1	2	2	2	2	1		74	74	8940
52	28095	28895	2	1	1	1	1	2	2	2	2	1		88	88	9170
53	28595	29395	2	1	1	1	1	2	2	2	2	1		88	88	9280
54	29095	29895	2	1	1	1	1	2	2	2	2	1		102	102	9520
55	29595	30395	2	1	1	1	1	2	2	2	2	1		88	88	9480
56	30095	30895	2	1	1	1	1	2	2	2	2	1		102	102	9710

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Table 2 - Alternative Component Make-ups 24a-56a Utilising 11.5m Long Extensions

	Length of Prop 'L' (mm) (Working Dimensions)		TGX06202 Plain Swivel Unit Assy	TGX06201 Ram Unit 1675-2475 mm	TGX06005 610 Extension 0.5m	TGX06010 610 Extension 1.0m	TGX06020 610 Extension 2.0m	TGX06030 610 Extension 3.0m	TGX06040 610 Extension 4.0mm	TGX06070 610 Extension 7.0m	TGX06115 610 Extension 11.5m	BNX30100 M30x100 gr8.8 Bolts	BNX30005 M30 Hex Nuts gr8	Weight (kg)
	min	max												
24a	14095	14895	2	1							1	32	32	5880
25a	14595	15395	2	1	1						1	46	46	6110
26a	15095	15895	2	1	1	1					1	46	46	6220
27a	15595	16395	2	1	1	1					1	60	60	6450
28a	16095	16895	2	1		1	1				1	46	46	6430
29a	16595	17395	2	1	1	1					1	60	60	6650
30a	17095	17895	2	1			1				1	46	46	6620
31a	17595	18395	2	1	1		1				1	60	60	6850
32a	18095	18895	2	1				1			1	46	46	6810
33a	18595	19395	2	1	1			1			1	60	60	7030
34a	19095	19895	2	1		1		1			1	60	60	7140
35a	19595	20395	2	1	1		1				1	74	74	7390
36a	20095	20895	2	1			2				1	60	60	7350
37a	20595	21395	2	1	1		2				1	74	74	7580
38a	21095	21895	2	1				1		1	1	46	46	7370
39a	21595	22395	2	1	1			1		1	1	60	60	7600
40a	22095	22895	2	1					2		1	60	60	7730
41a	22595	23395	2	1	1			2			1	74	74	7960
42a	23095	23895	2	1			1			1	1	60	60	7920
43a	23595	24395	2	1	1		1			1	1	74	74	8150
44a	24095	24895	2	1				1		1	1	60	60	8110
45a	24595	25395	2	1	1		1			1	1	74	74	8340
46a	25095	25895	2	1				1		1	1	60	60	8300
47a	25595	26395	2	1					1		2	46	46	8220
48a	26095	26895	2	1	1						2	60	60	8450
49a	26595	27395	2	1		1					2	60	60	8560
50a	27095	27895	2	1	1						2	74	74	8790
51a	27595	28395	2	1			1				2	60	60	8770
52a	28095	28895	2	1	1		1				2	74	74	9000
53a	28595	29395	2	1				1			2	60	60	8960
54a	29095	29895	2	1	1		1				2	74	74	9190
55a	29595	30395	2	1				1			2	60	60	9150
56a	30095	30895	2	1	1			1			2	74	74	9370

TUBESHOR 610

TUBULAR SHORING SYSTEM

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