

UNTED KINGDOM SINGAPORE CHINA AUSTRALASIA USA TMC Marine – providing expert advice and support to the marine industry since 1979 24HRS EMERGENCY RESPONSE +44 (0)20 7237 2617

## STEEL COIL LOADING PROGRAM

Based on Steel Coil Loading Rules, the Steel Coil Loading Program can be used to carry out checks on tanktop strength for loading of steel coils. The program can be tailored to the tanktop structure and hold size of a particular vessel. A list of coils to load is created.

kin	g Reference: Ord	ler 001	005 Praia M	D	ate: 10th A	April 2013				
	Order Number	ltem	Load Port	Discharge Port	Product	No. of Coils	Weight (tonnes)	Width (metres)	Diameter (metres)	Total <u>*</u> Weight (tonnes)
1	Order-001005/1	1	Praia Mole	ROTTERDAM	HRC	500	20.00	1.400	1.30	10000.0
2		2	Praia Mole	ROTTERDAM	HRC	600	16.00	1.250	1.30	9600.0
3		3	Praia Mole		HRC	350	13.00	1.200	1.25	4550.0
4		- 4	Praia Mole	ROTTERDAM	HRC	1000	11.50	1.200	1.20	11500.0
5			Praia Mole		HRC	1200	4.50	1.000	1.00	5400.0
6	Order-001005/2	1	Praia Mole		HRC	200	14.00	1.200	1.25	2800.0
7			Praia Mole		HRC	300	10.00	1.100	1.05	3000.0
B		3	Praia Mole	ROTTERDAM	HRC	960	5.80	1.000	1.00	5568.0 -
der '	Description: 1 - Max stow 3 tiers high 2 - items 1 & 2 - Max 2 tie	rs high			_			Total Wei	ght on Booking L	ist: 77043.0 tonnes
der i	2 - items 3-7 - Max 3 tiers	high								

A range of stowage plans can be produced, in order to optimise the available tanktop loading capacity when carrying steel coils. The program will then indicate - for each coil size - the percentage loaded or left to load. A Summary of coils loaded in each hold is given.

						COI	L LOAD	ING PR	OGRAM				
EFE	RENCE												
efere	nce: Order 0010	05 Praia N	(10th /	April 201	3)								
ondit	ion: Try-1 Order	1		Date	e 20th Ap	vil 2013							
OIL	SIZE											VOYAGE	
	_	Gap	Coil L	ength /	Average	Outside	No. of	No. of	Weight to	Weight	% Average	Max GM:	3.5 × metres
	Description	(metres)	(met	traci		Diameter (metres)	Pieces to Load	Pieces Loaded	Load (tonnes)	Loaded (tonnes)	Weight	Max GM:	3.5 <u>metres</u>
1	Order-001005/1-1	0.1	0	1.40	20.0	(meres) 1.30				(tonnes) 0.0	0		
2		0.1		1.25	16.0	1.30				0.0	0		
3		0.1	0	1.20	13.0	1.25	350	0	4550.0	0.0	0		
4		0.1	0	1.20	11.5	1.20	1000	0	11500.0	0.0	0		
5		0.1		1.00	4.5	1.00			5400.0	4257.0	79		
6	Order-001005/2-1	0.1		1.20	14.0	1.25				0.0	0		
7		0.1		1.10	10.0	1.05			3000.0	0.0	0		
8		0.1	0	1.00	5.8	1.00	960	946 Total wt:	5568.0 77043.0	5486.8 9743.8	99 💌		
Dain	t Coil Size Table												
								Total Wt.	77043.0	3743.0	tonnes		
								rotar wt.	77043.0	3743.0	tonnes		
-	SUMMARY							Total wt:	77043.0	5743.0	tomes		
-	SUMMARY						Coilload	Total wt:	77043.0	5743.0	tonnes		
-		x diam)	No. of Tiers	No. of Bows	No. of	No. of	Coil load in Hold		orload	5743.0	Comments	]	
OIL He	Coil Size (I×wt	x diam)	Tiers	Rows	Coils/Row	Coils	in Hold (tonnes)			5743.0		]	
OIL He	old Coil Size (I x wt	x diam)	Tiers 0.0	Rows	Coils/Row	Coils	in Hold (tonnes) 0			5743.0			
OIL Ho 2F	Old         Coil Size (I x wt           1         0 - No Coil Load           wd         0 - No Coil Load	× diam)	Tiers 0.0 0.0	Rows	Coils/Row	Coils 0	in Hold (tonnes) 0			3743.8			
OIL Ho 2F 2/	old Coil Size (I x wt	× diam)	Tiers 0.0	Rows	Coils/Row C	Coils 0 0	in Hold (tonnes) 0	0v	ərload	5743.0			
OIL Ho 2F 2/	Coil Size (I x wt 0 - No Coil Load wd 0 - No Coil Load Aft 0 - No Coil Load	× diam) 	Tiers 0.0 0.0 0.0	Rows	Coils/Row C C C C C C S 7	Coils 0 0 407	in Hold (tonnes) 0 0		erload .0 tj	5743.0			
OIL Ho 2F 2/	Coil Size (I × wt           1         0 - No Coil Load           wd         0 - No Coil Load           4t         0 - No Coil Load           3         8 - 1.00x5.8x1.00	× diam) 	Tiers 0.0 0.0 0.0 1.5	Rows 0 0 11	Coils/Row 0 0 0 37 37 37	Coils 0 0 407 407	in Hold (tonnes) 0 2360.6 1831.5	0∨ 0K5.8t (7	erload .0 t) .4 t)				
OIL Ho 2F 2/	Coil Size (I × wt           1         0 - No Coil Load           wd         0 - No Coil Load           4t         0 - No Coil Load           3         8 - 1.00x65.8x1.00           4         5 - 1.00x45.8x1.00           5         4 - 1.20x11.5x1.26           6         5 - 1.00x45.8x1.00	× diam) 	Tiers 0.0 0.0 1.5 1.5	Rows 0 0 11 11 11 10 11	Coils/Row 0 0 37 37 37 31 49	Coils 0 0 407 407 310 539	in Hold (tonnes) 0 0 2360.6 1831.5 3565 2425.5	0∨ 0K5.8t (7 0K4.5t (7	erload .0 t) .4 t) 111.5t (9.1 t)		Comments		
01L Ho 2F 2/	Coil Size (I x wt           0 - No Coil Load           wd         0 - No Coil Load           0 + No Coil Load           3 8 - 1.0x5 &x1.00           4 5 - 1.0x4 5x1.00           5 4 - 1.20x1 15x1.2           6 5 - 1.00x5 8x1.00           7 8 - 1.00x5 8x1.00	× diam) 	Tiers 0.0 0.0 1.5 1.5 1.5 2.0 2.0	Rows 0 0 11 11 11	Coils/Row 0 0 37 37 37 31 49	Coils 0 0 407 407 310 539	in Hold (tonnes) 0 2360.6 1831.5 3565 2425.5 3126.2	0√ 0K5.8t (7 0K4.5t (7	erload .0 t) .4 t) .11.5t (9.1 t) .9 t)		Comments		
OIL Ho 2F 2/	Coil Size (I × wt           0         - No Coil Load           wd         0         - No Coil Load           0         - No Coil Load         - No Coil Load           4         0         - No Coil Load           4         - No Coil Load         - No Coil Load           5         - 1.00x5 8x1 00           6         5 - 1.00x4 5x1 00           8         2 - 1.25x16 0x1 3		Tiers 0.0 0.0 1.5 1.5 1.5 2.0 2.0 1.0	Rows 0 11 11 11 10 11 11 11	Coils/Row 0 0 37 37 31 49 49 49	Coils 0 0 407 407 310 539 539 171	in Hold (tonnes) 0 0 2360.6 1831.5 3565 2425.5 3126.2 2736	0∨ 0K5.8t (7 0K4.5t (7 0VERLOAD 0K4.5t (5	erload .0 t) .4 t) .11.5t (9.1 t) .9 t)	Co	Comments		
OIL Ho 2F 2/	Coil Size (I x wt           0 - No Coil Load           wd         0 - No Coil Load           0 + No Coil Load           3 8 - 1.0x5 & x1.00           4 5 - 1.00x4 5x1.00           5 4 - 1.20x11 5x1.2           6 5 - 1.00x5 5x1.00           7 8 - 1.00x5 6x1.00	× diam) + + + + + + + + + + + + +	Tiers 0.0 0.0 1.5 1.5 1.5 2.0 2.0	Rows 0 11 11 11 10 11	Coils/Row 0 0 37 37 31 49 49 49 19 0	Coils 0 0 407 407 310 539 539 171 0	in Hold (tonnes) 0 2360.6 1831.5 3565 2425.5 3126.2	0∨ 0K5.8t (7 0K4.5t (7 0VERLOAD 0K4.5t (5	erload .0 t) .4 t) .11.5t (9.1 t) .9 t)	Co	Comments		





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The program will cater for variations in tanktop strength across the hold, making it possible to check for locking coil positions or to increase coil load in some areas. The list of coils is updated as coils are loaded. The program can provide a detailed stowage plan, making use of more than one coil size and thereby allowing the user to optimise stowage for the range of coil sizes available to load.



