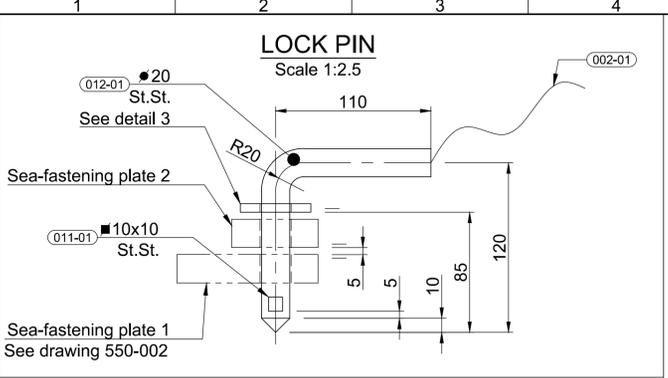
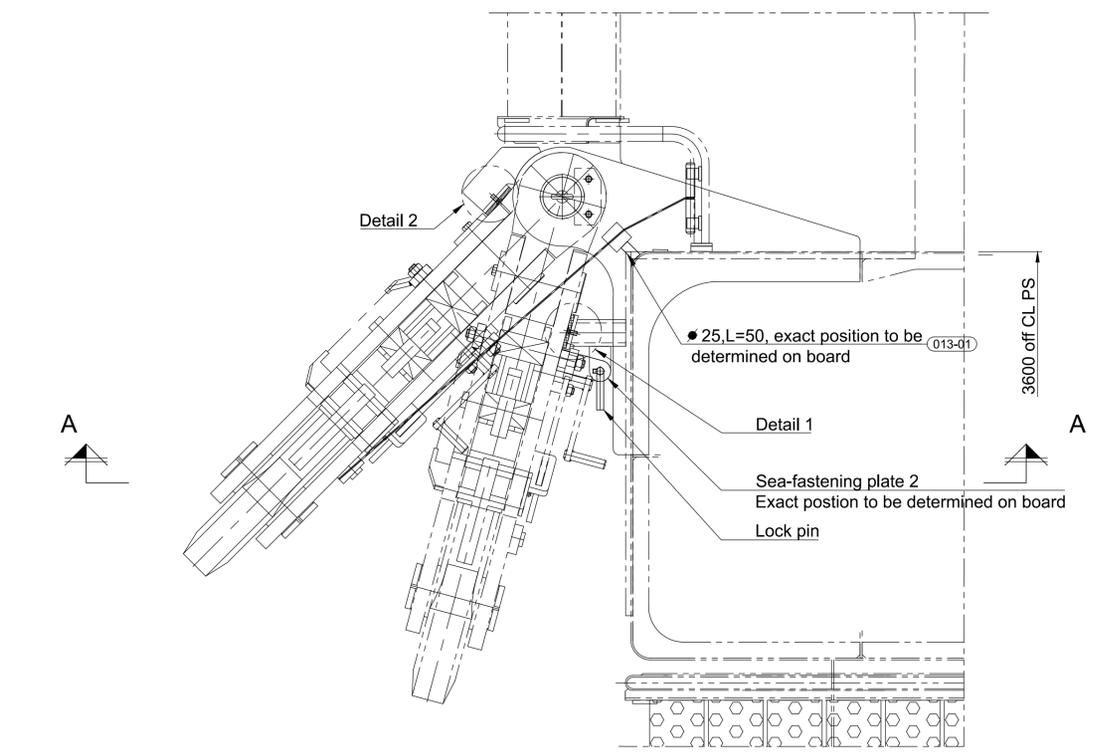


ISO 5457 - ISO 7200 A1 TransNo. TE-513233-00012-01 / Issue: For Approval / Date: 22-01-2024

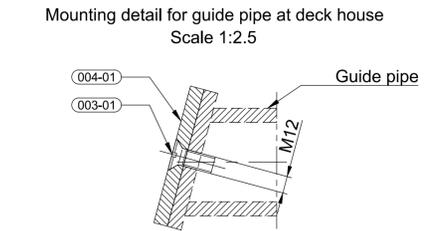


TOP VIEW

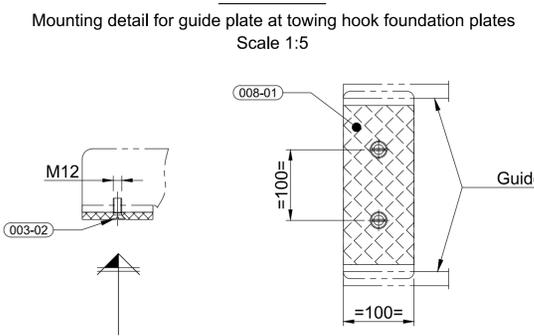


Weight [kg] : 770.0		
Center Of Gravity [m]		
X (from frame 0)	Y (from C.L.) PS=- & SB=+	Z (from base)
11.707	-3.312	5.138

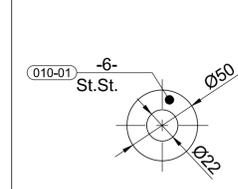
DETAIL 1



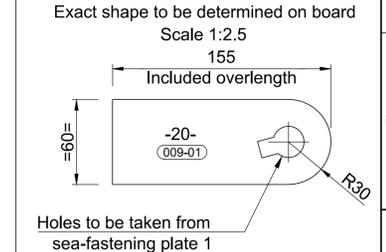
DETAIL 2



DETAIL 3

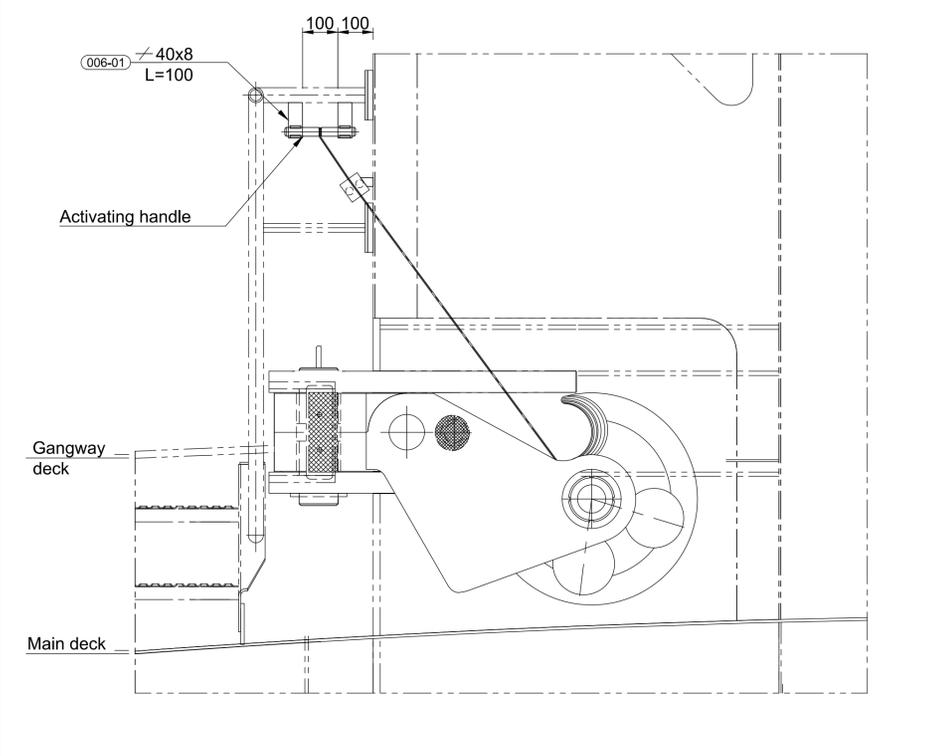


SEA-FASTENING PLATE 2

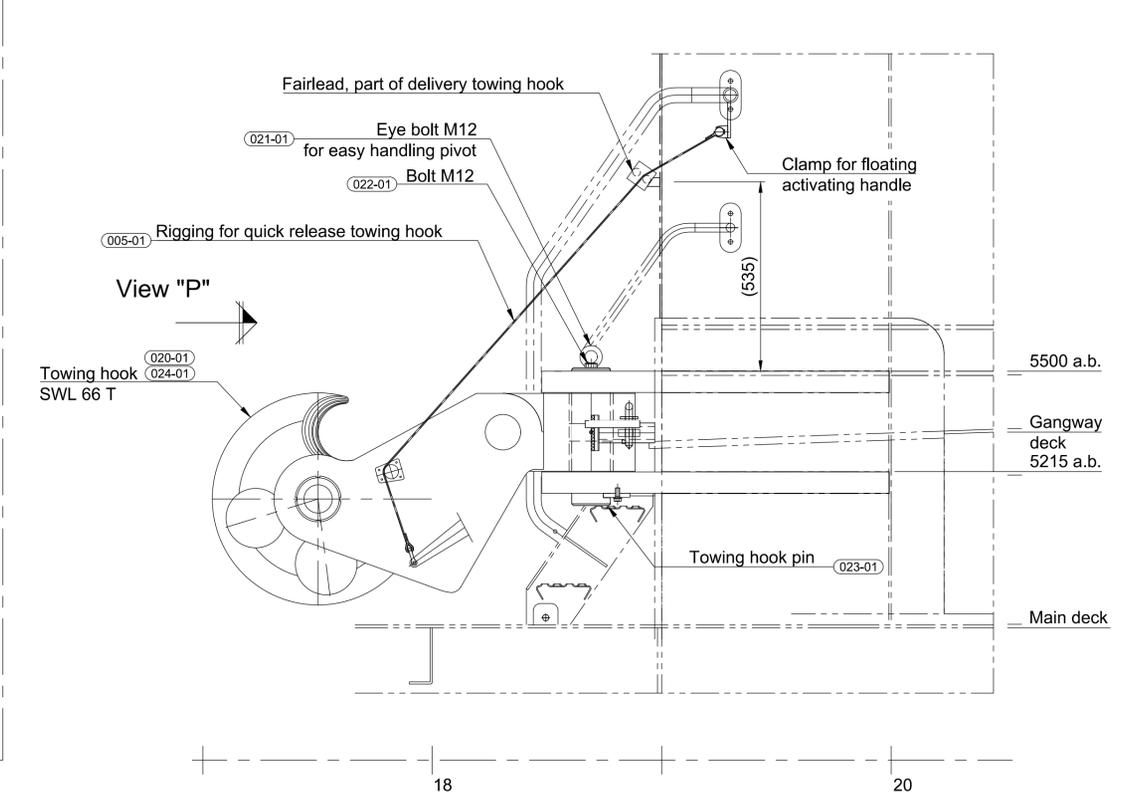


Bureau Veritas Marine & Offshore
Section 47158L.....
REVIEWED
only for parts concerning Classification, and as per contract.
Rotterdam, 13-May-2024
[Electronic document]
The plan approval office

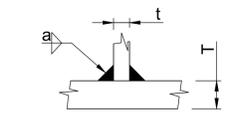
VIEW "P"



SECTION A-A



t	a
$t \leq 8$	3.5
$8 < t \leq 10$	4.5
$10 < t \leq 12$	5
$12 < t \leq 14$	6
$14 < t \leq 15$	6.5
$15 < t \leq 18$	7
$18 < t \leq 20$	8



t = Smallest plate thickness
a = Weld throat size

- NOTE**
- All welding \blacktriangle or \blacktriangledown according welding table unless stated otherwise;
 - Sharp edges to be removed;
 - Correct location of fairlead to be fixed after mounting of hook;
 - Exact length of wire to be determined on board;
 - Total weight includes outfitting items, sea-fastening plate 2 and lock pin;
 - Dimensions between brackets (...) are for reference only;
 - Complete construction to be Hot Dip Zinc Coated (HDZC) after prefabrication.

REFERENCE DOCUMENTS

Function	Func.seq.	Class	Title
550	002	DRAW-2D	Arrangement towing hook Steel works

-St. St.: - Bolts, nuts etc. - Other objects -Material : Steel, unless stated otherwise : -Steel : - Remaining Profiles	Stainless steel A4	Stainless steel AISI 316L	Grade A	Steel EN 10025-2 - S235JR
	<p>Arrangement towinghook Outfitting</p> <p>Doc class DRAW-2D Drawn NCO Derived from --</p> <p>Project No. 513233 Function 550 Sequence 201 Checked LBL Date 29-11-2023</p> <p>Yard No. Section/Compartment Document number Sheet Revision</p> <p>HB COPYRIGHT DAMEN SHIPYARDS GROUP 5498087 1 A01</p>			



Industrieterrein Avelingen West 20
4202 MS Gorinchem

P.O. Box 1
4200 AA Gorinchem

phone +31 (0) 183 63 99 11
fax +31 (0) 183 63 21 89

info@damen.com
www.damen.com

The Netherlands

BILL OF MATERIAL

Arrangement towinghook				Top Part	M550
Project No.	513233	Function	550	Drawn	NCO
Yard No.	Section/Compartment			Check	LBL
COPYRIGHT DAMEN SHIPYARDS GROUP				Document number	5498087
				Sheet	1
				Date	29-11-2023
				Revision	A01

POS	PART		DESCRIPTION	DOC NO	
	QT.	UNITS		SHT	
002-01	1004503		Chain, Shortlink, D=6mm, li=18.5mm, DIN 766, St st AISI 316 (1.4401)		
	0.5	m			
003	1001566		Hexagon socket head screw, Cylinder, M12, L=50mm, Partial thread, EN ISO 4762, St st A4-70		
	3	pcs			
004	1003141		Plate, round, D=100mm, t=10mm, with bolt holes, Color:White, PA 6, with hole 12mm countersunk, for Tow.hook stop	2256266	
	1	pcs		1	
005	1195240		ASSY, Rigging, For quick release towing hook, Stainless steel	1425341	
	1	pcs		1	
006-01	1438490		[W], Plate, t=8mm, Steel Grade A, EN 10029/EN 10163		
	0.01	m2			
008	1377532		Double Plate, L=225, W=100, t=10, PA		
	1	pcs			
009-01	1438493		[W], Plate, t=20mm, Steel Grade A, EN 10029/EN 10163		
	0.01	m2			
010-01	1165253		[W], Plate, t=6mm, St st AISI 316L (1.4404), Cold rolled		
	0.01	m2			
011-01	1207377		[W], Square bar, H=10mm, W=10mm, St st AISI 316L (1.4404), EN 10059		
	0.02	m			
012-01	1008668		[W], Round bar, OD=20mm, Machined, St st AISI 316L (1.4404), Polished		
	0.3	m			
013-01	1005333		[W], Round bar, OD=25mm, Steel S235JR (1.0038), EN 10060		
	0.07	m			
020	1011871		Grease Device, Towing hook set for nipple SH1, incl. 2x Mobilgrease 28 tube, +sticker - tow..hook. - on grease device, To be delivered		
	1	pcs			
021	1208018		Eye bolt, For lifting, M12, L=20.5mm, di=30mm, Full thread, DIN 580, Max. load=340kg, Steel C15 E (1.1141)		
	1	pcs			
022	1001117		Hexagon head bolt, M12, L=20mm, Full thread, DIN 933, Steel 8.8, Hot dip galvanized		
	1	pcs			
023	1464080		Locking pin, D=110mm, L=390mm, Steel 50CrMo4 (1.7228), Pin, for Towing Hook, SWL=650kN	3284249	
	1	pcs		1	
024	1538959		[C], Towing Hook, Disc-hook, Design Load 1500 kN, with hydraulic cylinder, incl. fairlead, Steel	4267155	
	1	pcs		1	

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