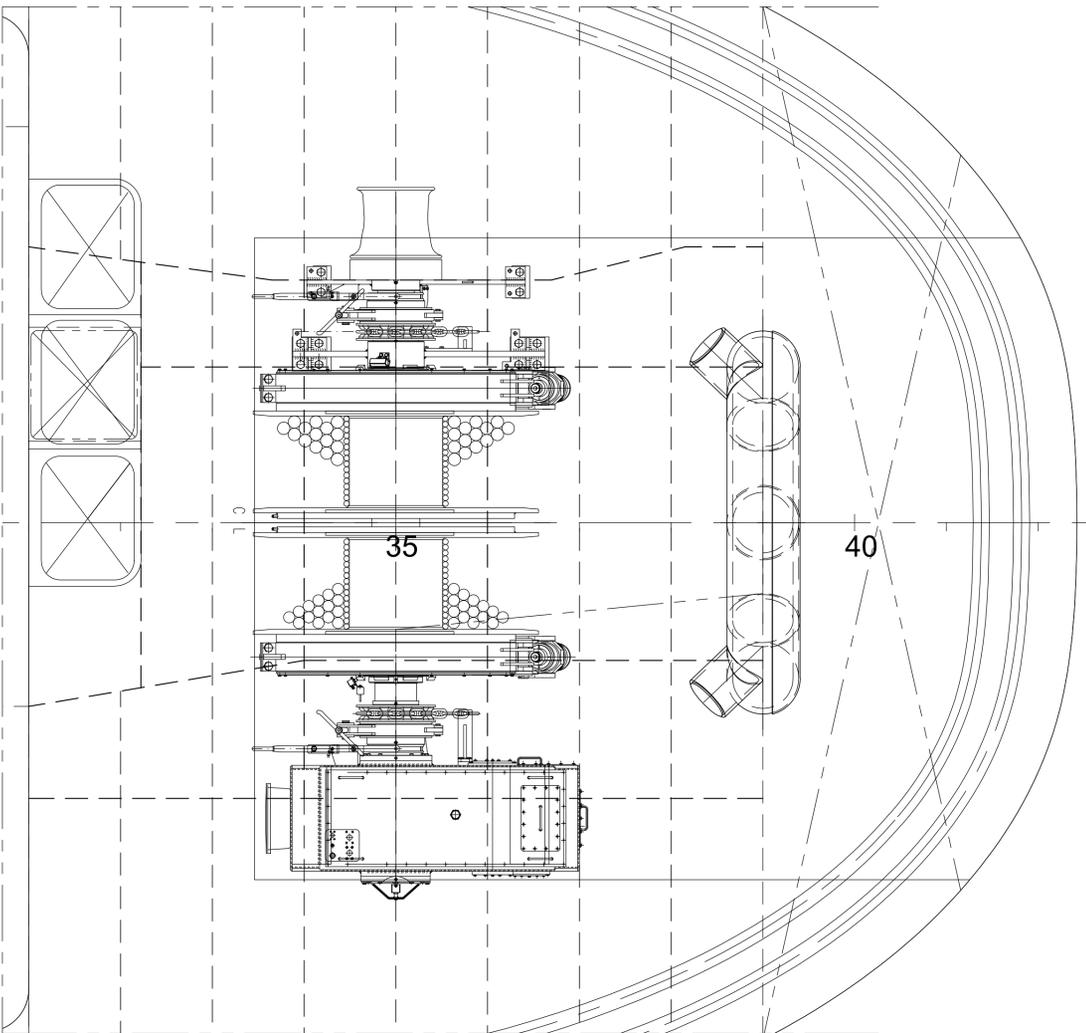


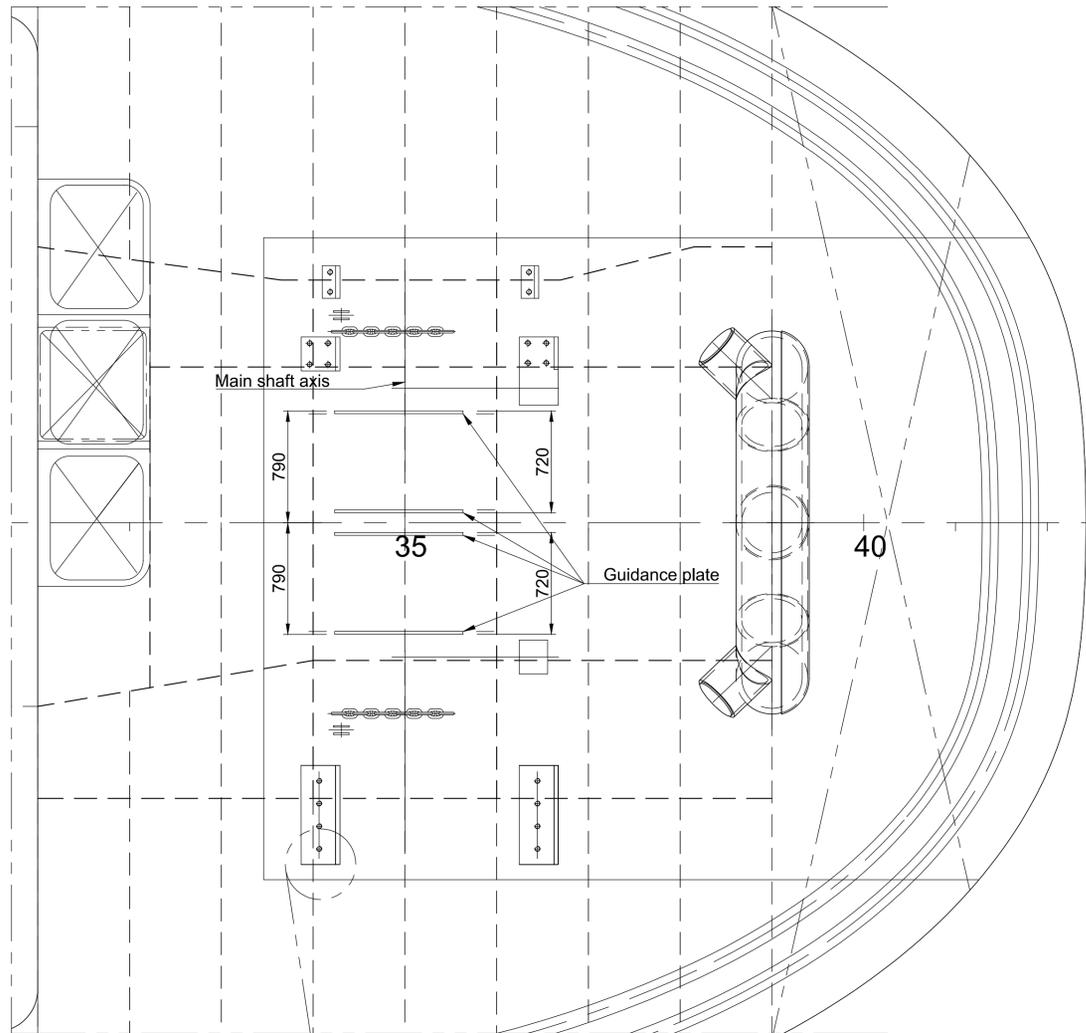
**TOP VIEW**

Winch situation



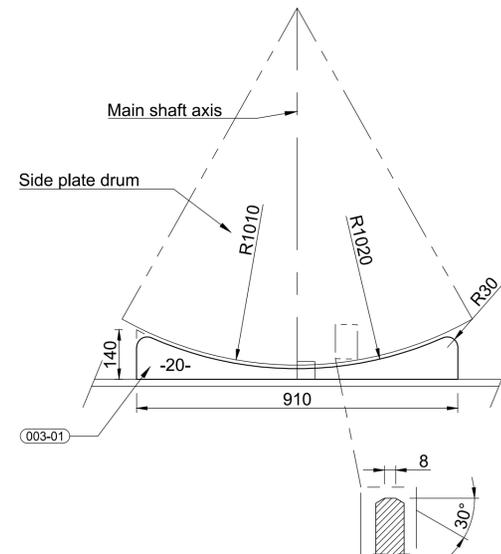
**TOP VIEW**

Situation footprint

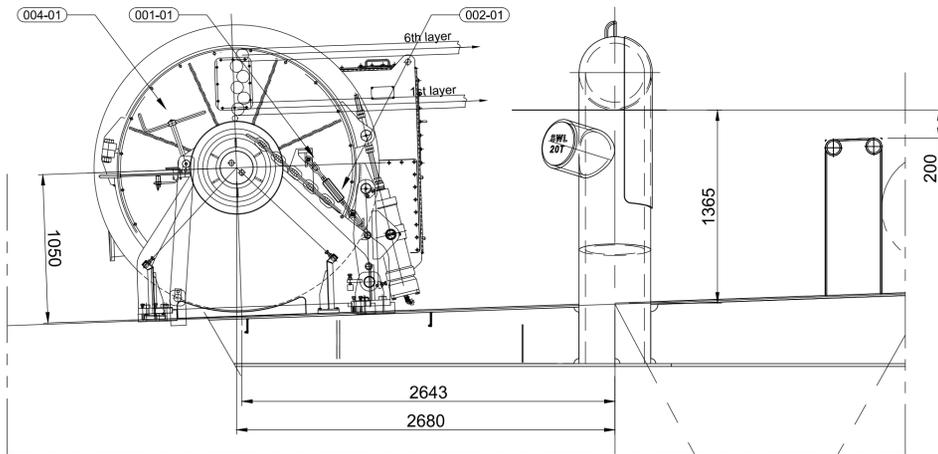


**DETAIL GUIDANCE PLATE**

Scale 1:10

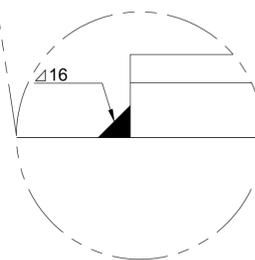


**SIDE VIEW**



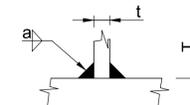
**TYPICAL WELDING DETAIL FOOTPRINTS**

Scale 1:2.5



**Bureau Veritas Marine & Offshore**  
 Section 471581.....  
**VU**  
 Rotterdam, 13-May-2024  
 (Electronic document)  
 The plan approval office

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



t = Smallest plate thickness  
 a = Weld throat size

**NOTE**

- All welding  $\blacktriangleleft$  or  $\blacktriangleright$  according welding table unless stated otherwise;
- Sharp edges to be removed.

**REFERENCE DOCUMENTS**

Function	Func.seq.	Class	Title
100	005	DRAW-2D	Welding connections
110	734	DRAW-3D	Construction section 304
153	002	DRAW-2D	Guide post fore

**MOUNTING INSTRUCTIONS WINCH**

- Place winch on deck and check if the chain wheels are in line with the anchor hawse pipes
- Position guidance plates
- Put the chain or a piece of chain on the chain wheel and through the anchor hawse pipe and bring the chain under tension using the anchor or a weight similar to the anchor weight
- Check if the chains run parallel between chain wheels and the rim of the hawse pipes, if the chains do not run parallel correct the position of the rim
- Position and weld the chain pipe
- Cut out the hawse pipe cover in way of the chain
- For extra mounting instructions see Winch Supplier manual

**GENERAL NOTE**

Special attention should be given to protect the winch against mechanical damage and (future) corrosion. Therefore the winch must be stored at a suitable place and it must be protected during grinding and welding on deck. Also the surface between winch feet and mounting pads of the winch and the surface between the chain stopper and it's foundation etc. must have the full paint system.

Rev	Date	Drawn	Checked	Revision text
A01	26-10-2023	NCO	LBL	Initially created

Projection		<b>DAMEN</b>	DAMEN SHIPYARDS GORINCHEM
Format	A1		
Scale	1:25	Industrieterrein Avelingen West 20 4202 MS Gorinchem The Netherlands	P.O. Box 1 4200 AA Gorinchem The Netherlands
Units	mm	phone +31 (0) 183 63 99 11 fax +31 (0) 183 63 21 89	info@damen.com www.damen.com

<b>Arrangement anchor and towing winch</b>			
<b>Double drums</b>			
Doc class	DRAW-2D	Drawn	NCO
Project No.	513233	Sequence	201
Yard No.		Document number	5498077
Section/Compartment		Sheet	1
HB	COPYRIGHT DAMEN SHIPYARDS GROUP	Date	29-11-2023
		Revision	A01



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# BILL OF MATERIAL

## Arrangement anchor and towing winch

Top Part M510

Project No.	513233	Function	510	Drawn	NCO	Check	LBL	Date	29-11-2023
Yard No.	Section/Compartment				Document number	5498077		Sheet	1
COPYRIGHT DAMEN SHIPYARDS GROUP							Revision		A01

POS	PART		DESCRIPTION	DOC NO
	QT.	UNITS		SHT
001	1004644		Shackle, Bow-type, Safety bolt, D=19mm, W=27mm, H=110mm, WLL=3.25t, Steel, Hot dip galvanized, Safety factor=6xWLL	
	1	pcs		
002	1004194		ASSY, Chain tensioner, Turnbuckle type tensioning double hook, For chain D=19mm, W=130mm, Depth=60mm, Steel S235JR (1.0038)	1408384
	1	pcs		1
003-01	1438493		[W], Plate, t=20mm, Steel Grade A, EN 10029/EN 10163	
	0.5	m2		
004	1417435		[C], Winch, Towing, Double drum, Hydraulic, BHL=150t, Pull=34.7t, Warping head, Steel, 221-H19 (350KN)	
	1	pcs		

TransNo: TE-513233-00012-01 / Issue: For Approval / Date: 22-01-2024