

REPORT
**ON MEASURING RESIDUAL THICKNESS,
DEFORMATIONS, CRACKS OF HULL MEMBERS**

M/V “KAPTEINIS ORLE”

Report No.: HR-04-16
IMO No.: 8954685

Recognition Certificate of Maritime Administration of Latvia Nr.12.0230.06

Naval Architect: Sergejs Timonovs
Date: 04.03.2016





LATVIJAS JŪRAS ADMINISTRĀCIJAS
KUĢOŠANAS DROŠĪBAS INSPEKCIJA
MARITIME ADMINISTRATION OF LATVIA
MARITIME SAFETY INSPECTORATE

UZŅĒMUMA ATBILSTĪBAS APLIECĪBA CERTIFICATE OF COMPLIANCE OF COMPANY

Pamatojoties uz Latvijas Republikas Ministru kabineta 2008.gada 29. janvāra noteikumu Nr. 49 „Noteikumi par kuģu drošību” 12. punktu, Latvijas Jūras administrācijas Kuģošanas drošības inspekcija apliecina, ka

Issued by Maritime Safety Inspectorate of the Maritime Administration of Latvia under provisions of Article 12 of Regulation No.49 „Regulations on Ships Safety” issued on 29 January 2008 by Cabinet of Ministers of the Republic of Latvia. This is to certify that

SIA „HARBOUR RIGA”

(uzņēmuma pilns nosaukums, adrese un reģistrācijas Nr. full name of Company, address and No. of registry)

Gāles iela 2, Rīga, LV-1015, reģ. nr. 40103422989

ir Latvijas Jūras administrācijas Kuģošanas drošības inspekcijas atzīts uzņēmums, kas veic šīs apliecības pielikumā norādītos darbus saskaņā ar spēkā esošajiem normatīvajiem aktiem.*

is recognized Company by Maritime Safety Inspectorate of the Maritime Administration of Latvia for executing works as stated in Attachment to this Certificate in compliance with laws and regulations in force.*

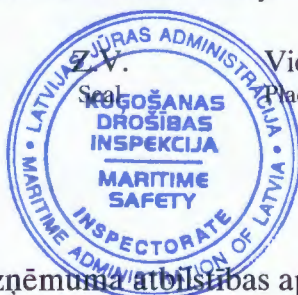
Uzņēmuma atbilstības apliecība ir derīga ar nosacījumu, ka tā tiek apstiprināta katru gadu.

Validity of Certificate of Compliance of Company is subject to annual surveys of Company

Nākošās ikgadējās apskates termiņš

2013. gada 15. septembris

Date of next annual survey



Vieta
Place

Rīga

Datums
Date

2012. gada 26. oktobris

A. Ošs

Pilnvarotās personas paraksts, uzvārds
Signature and name of authorized official

Uzņēmuma atbilstības apliecības Nr.

12.0230.06

No. of Certificate of Compliance of Company

Derīga līdz

2017. gada 15. septembrim

Valid until

* Veicot pielikumā norādītos darbus, uzņēmuma izdotajos dokumentos iekļauj norādi „Darbi veikti saskaņā ar Latvijas republikas Ministru kabineta 2008.gada 29. janvāra noteikumu Nr. 49 „Noteikumi par kuģu drošību” 12. punktu.,,

Uzņēmuma atbilstības apliecības Nr.

12.0230.06

Derīga līdz

2017. gada 15. septembrim

* Executing works stated in Attachment to this Certificate, documents issued by Company should be amended as follows:
“Works executed in accordance with Article 12 of Regulation No.49 „Regulations on Ships Safety” issued on 29 January 2008 by Cabinet of Ministers of the Republic of Latvia”

No. of Certificate of Compliance of Company

Valid until

SIA „HARBOUR RIGA”

ATBILSTĪBAS APLIECĪBAS Nr.12.0230.06 PIELIKUMS ATTACHMENT TO CERTIFICATE OF COMPLIANCE OF COMPANY

Uzņēmumā veicamo darbu uzskaitījums List of works Company permitted to execute	Tehniskā dokumentācija Technical documentation
Kuģu korpusu konstrukciju, cauruļvadu, spiedtrauku un citu metāla konstrukciju defektoskopija un biezuma mērījumi izmantojot ultraskaņas metodes	Atzītu kuģu klasifikācijas sabiedrību noteikumi, instrukcijas, LR normatīvie akti

Z.v.
Seal

Nr.
No. 12.0230.06



Vieta
Place

Rīga

Date

Datums 2012. gada 26. oktobris

A. Ošs

pilnvarotās personas paraksts, uzvārds
Signature and name of authorized official

**CERTIFICATION BODY OF NDT PERSONS
SCIENTIFIC AND TECHNICAL CENTRE "SICH SERT" LLC**

THE CERTIFICATION OF ACCREDITATION № 60002 FROM 21.10.2012
OF NATIONAL ACCREDITATION AGENCY OF UKRAINE -
THE NATIONAL AUTHORITY ON ACCREDITATION.
Declaration about accordance № 007-13 from 22.03.2013

CERTIFICATION OF CONFORMITY

№ 164.04

This certificate avouch that Sergejs Timonovs
(name, surname)

according to requirements of certification system on EN ISO 9712 and SNT-TC-1A
is certified as an specialist

according to the Ultrasonic testing (UT)

on level II (second)

(testing method, testing symbol, level of qualification)

and is entitled to control: 0 – metalware and semimanufactured goods (different combinations c, f, w, t and wp), 1 – castings (c), 2 – forgings (f), 3 – welded products (w), 3a – welding deposition (w), 4 – tubes and pipes, including flat products for the manufacturing of welded pipes (t), 5 – wrought products (wp), 5a – rolled stock (wp)

(production type)

In sectors: 7 – metal manufacturing (combining c, f, t, w and wp), 8 – pre and in-service testing of equipment, plant and structure (combining c, f, w, t, wp and other product sectors), 9 – railway maintenance (combining f, wp and other product sectors), 11 – metalwork and metal production, 15 – pipelines, 17 – drilling equipment, 18 – lifting machines, 19 – metalwares and building constructions, 20 – shipbuilding and shiprepair

Certification is valid 29.09.2019

Given in according to 29.09.2014 № 164.04

Scientific and Technical centre "Sich Sert"

(place of given)

Manager of certification
body of persons



(signature)

V.Rodionova

(N.S.)

KALIBREERIMISTUNNISTUS

Calibration Certificate

KALIBREERIMISTUNNISTUS nr
Calibration Certificate No
002-8/15u

Kuupäev
Date
31.08.2015

Leht
Page
1(2)

Klient
Customer

SIA "HARBOUR RIGA".

Address
Address

Zivju iela 1.Rīga,LV-1015 LATVIA .

Mõõtevahend
Measuring instrument

ultrasonic thickness gauges, transducer DA 451, 5 MHZ, No. 59167-1043.

Tüüp
Type

DM4

Number
Serial number

16855 - *015KJJ*

Kalibreeritud
Date of calibration

31.08.2015.

Järgmine kalibreerimine 31.08.2016.
Valid till

Date of calibration

Lehti 2
Number of pages

Juri Kargu

Mõõtmiste eest vastutav isik:
The person responsible for
the measurements

V. Galuskina

Kalibreeris:
Calibrated by

Kalibreerimistunnistust ei tohi paljundada osaliselt välja arvatud selle väljaandja kirjalikul loal. Kalibreerimistulemused kehtivad ainult selle mõõtevahendi kohta.

This Calibration protocol may only be reproduced in full, except with the prior written permission by the issuing Laboratory.

1. Kalibreerimisvahendid. *Calibration equipment.* Measure length KMT 176M-1.

2. Jälgitavus. *Traceability.*

Working standards ELME TKS are calibrated in laboratory METROSERT.

3. Kalibreerimisjuhend, -metoodika, - meetod. *Calibration instruction or, -method*
ГОСТ Р 8.862-2013, method comparison

Tulemused. Results.

Tabel 1

The table

Block Serial No.	Block Thickness (mm)	Measured Thickness (mm)	Acceptance Limits $\pm$ mm	Result (Pass/ Full)
KMT 176M-1	3.018	3.1	0.1	Pass
KMT 176M-1	7.005	7.1	0.1	Pass
KMT 176M-1	9.997	10.1	0.1	Pass
KMT 176M-1	14.998	15.1	0.1	Pass
KMT 176M-1	20.001	20.1	0.1	Pass
KMT 176M-1	25.011	25.1	0.1	Pass
KMT 176M-1	30.004	30.1	0.1	Pass

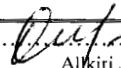
Velocity of Sound 6060 m/s.

Material steel

4. Keskkonna parameetrid mõõtmiste ajal. *Environmental conditions*

Temperatuur Temperature: (21,0) °C

Õhu niiskus Air humidity (68.2) %

Kalibreeris. Calibrated by.....
Allkiri signature

THICKNESS MEASUREMENT REPORT

GENERAL PARTICULARS

Ship's name:	<i>KAPTEINIS ORLE</i>	
IMO number:	<i>8954685</i>	
Class identity number:		
Port of registry:	<i>VENTSPILS</i>	
Gross tons:	<i>121</i>	
Deadweight:	<i>40</i>	
Date of build:	<i>1982</i>	
Classification society:		

Name of firm performing thickness measurement:	<i>HARBOUR RIGA</i>	
Thickness measurement firm certified by:	<i>LATVIJAS JŪRAS ADMINISTRĀCIJA</i>	
Approval No.:	<i>07.0246.06</i>	
Approval valid from	<i>2012-09-15 to 2017-09-15</i>	
Place of measurement:	<i>VENTSPILS</i>	
First date of measurement:	<i>08.02.2016</i>	
Last date of measurement:	<i>09.02.2016</i>	
Special survey / intermediate / other survey due:		
Details of measurement equipment:	<i>DM 4</i>	
Qualification of operators:	<i>UT- LEVEL 2.</i>	

Report Number:	<i>HR-04-16</i>	Consisting of 9 pages
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Name of operators:	<i>S.TIMONOVŠ</i>	Name of surveyor:
Signature of operators:		Signature of surveyor:
Firm official stamp:		Classification Society
		Official Stamp:

Report on thickness measurements of all shell, deck plating , structuralal members

Ship's name

KAPTEINIS ORLE

IMO No

8954685

Report №

HR-04-16

1	Structure : SHELL PLATING																											
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual th-s, MM	Max. allow.deminution %	Remaining thickness gauged Si, MM														Average values			Notes		
																							Residual thickness S1,	Deminution				
																								absolut e	relative			
																											MM	MM
2	3	4	5	6	7	8	9	10	11														12	13	14	15		
Plate	PS	Fk	Fk1	44	48	8.0	5.6	30.0	7.8	7.9	7.8	7.9	7.7										7.8	0.2	2.3			
Plate	StB	Fk	Fk1	44	48	8.0	5.6	30.0	7.8	7.9	7.6	7.7	7.9										7.8	0.2	2.8			
Plate	PS	Fk	Fk2	41	44	8.0	5.6	30.0	7.6	7.5	7.5	7.7	7.1										7.5	0.5	6.5			
Plate	StB	Fk	Fk2	41	44	8.0	5.6	30.0	7.9	7.7	7.8	7.8	7.5										7.7	0.3	3.3			
Plate	PS	Fk	Fk3	29	41	8.0	5.6	30.0	7.7	7.4	7.6	7.5	7.5	7.3	7.2								7.5	0.5	6.8			
Plate	StB	Fk	Fk3	29	41	8.0	5.6	30.0	7.6	7.0	7.5	7.5	7.6	7.6									7.5	0.5	6.7			
Plate	PS	Fk	Fk4	25	29	8.0	5.6	30.0	7.3	7.4	7.3	7.7	7.7	7.6									7.5	0.5	6.3			
Plate	StB	Fk	Fk4	25	29	8.0	5.6	30.0	7.4	7.4	7.5	7.2											7.4	0.6	7.8			
Plate	PS	Fk	Fk5	15	25	8.0	5.6	30.0	7.4	7.5	7.3	7.4	7.2	7.5									7.4	0.6	7.7			
Plate	StB	Fk	Fk5	15	25	8.0	5.6	30.0	7.5	7.2	7.7	7.5	7.5	7.6									7.5	0.5	6.3			
Plate	PS	Fk	Fk6	6	15	8.0	5.6	30.0	7.2	7.2	7.5	7.7											7.4	0.6	7.5			
Plate	StB	Fk	Fk6	6	15	8.0	5.6	30.0	7.3	6.2	7.6	7.1	7.3	7.4									7.2	0.9	10.6			
Plate	PS	Fk	Fk7	2	6	8.0	5.6	30.0	7.8	7.4	7.0												7.4	0.6	7.5			
Plate	StB	Fk	Fk7	2	6	8.0	5.6	30.0	7.7	7.4	7.5												7.5	0.5	5.8			
Plate	PS	A	A1	29	41	6.0	4.2	30.0	5.6	5.0	5.0	5.2	5.1	5.2	5.1								5.2	0.8	13.8			
Plate	StB	A	A1	29	41	6.0	4.2	30.0	5.4	5.3	5.4	5.6	5.7	5.7	5.8								5.6	0.4	7.4			
Plate	PS	A	A2	25	29	6.0	4.2	30.0	5.0	5.0	4.9	5.0	5.6	5.7									5.2	0.8	13.3			
Plate	StB	A	A2	25	29	6.0	4.2	30.0	5.6	5.0	5.4	5.4	5.3	5.6									5.4	0.6	10.3			
Plate	PS	A	A3	15	25	6.0	4.2	30.0	5.5	5.4	5.7	5.2	5.7	5.3	5.4								5.5	0.5	9.0			
Plate	StB	A	A3	15	25	6.0	4.2	30.0	5.8	5.4	5.3	5.7	5.4	5.2									5.5	0.5	8.9			
Plate	PS	A	A4	6	15	6.0	4.2	30.0	6.0	5.7	5.5	5.7	5.8										5.7	0.3	4.3			
Plate	StB	A	A4	6	15	6.0	4.2	30.0	5.8	5.4	5.6	5.8	5.5										5.6	0.4	6.3			
Operator's signature :																									Legend: Below class min			
																									Substantial corr			

Report on thickness measurements of all shell, deck plating , structuralal members

Ship's name

KAPTEINIS ORLE

IMO No

8954685

Report №

HR-04-16

1		Structure : SHELL PLATING																										
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual th-s , MM	Max. allow.deminution %	Remaining thickness gauged Si, MM																Average values			Notes
																									Residual thickness S1,	Deminution		
																										absolut e	relative	
									MM	MM	%																	
2	3	4	5	6	7	8	9	10	11																12	13	14	15
Plate	PS	A	A5	3	6	8.0	5.6	30.0	7.4	7.7	7.5														7.5	0.5	5.8	
Plate	StB	A	A5	3	6	8.0	5.6	30.0	7.3	7.0	6.8														7.0	1.0	12.1	
Plate	PS	B	B1	48	53	10.0	7.2	30.0	8.5	8.1	8.9														8.5	1.5	15.0	
Plate	StB	B	B1	48	53	10.0	7.0	30.0	6.1	6.5	8.1	6.6	8.3	9.5	6.4	9.5	9.7	9.5							8.0	2.0	19.8	partly renew
Plate	PS	B	B2	41	48	6.0	4.2	30.0	5.3	5.5	5.2	5.2	5.7												5.4	0.6	10.3	
Plate	StB	B	B2	41	48	6.0	4.2	30.0	5.4	5.4	5.5	5.2	5.9												5.5	0.5	8.7	
Plate	PS	B	B3	29	41	6.0	4.2	30.0	5.0	5.2	5.0	5.1	5.1	5.2	5.2										5.1	0.9	14.8	
Plate	StB	B	B3	29	41	6.0	4.2	30.0	7.2	4.9	5.3	5.2	5.3	5.4	5.3										5.5	0.5	8.1	
Plate	PS	B	B4	25	29	6.0	4.2	30.0	5.2	5.3	5.3	5.7	5.3	5.5											5.4	0.6	10.3	
Plate	StB	B	B4	25	29	6.0	4.2	30.0	5.5	5.7	5.4	5.6													5.6	0.4	7.5	
Plate	PS	B	B5	15	25	6.0	4.2	30.0	5.6	5.4	5.7	5.4	5.7	5.3											5.5	0.5	8.1	
Plate	StB	B	B5	15	25	6.0	4.2	30.0	5.5	5.5	5.5	5.7	5.4	5.2											5.5	0.5	8.9	
Plate	PS	B	B6	6	15	6.0	4.2	30.0	5.5	5.7	5.2	5.7	5.3												5.5	0.5	8.7	
Plate	StB	B	B6	6	15	6.0	4.2	30.0	5.8	5.3	5.6	5.7	5.7												5.6	0.4	6.3	
Plate	PS	C	C1	48	53	10.0	7.0	30.0	7.4	7.5	8.0	8.2	9.7												8.2	1.8	18.4	
Plate	StB	C	C1	48	53	10.0	7.0	30.0	8.6	9.1	7.8	7.5	9.8												8.6	1.4	14.4	
Plate	PS	C	C2	48	53	5.0	3.5	30.0	5.8	5.8	5.6														5.7	-0.7	-14.7	
Plate	StB	C	C2	48	53	5.0	3.5	30.0	5.8	5.9	5.7	5.9	5.9	5.7											5.8	-0.8	-16.3	
Plate	PS	C	C3	41	48	5.0	3.5	30.0	4.5	4.3	3.5	3.2	3.1	3.8	3.5	3.3									3.7	1.4	27.0	partly renew
Plate	StB	C	C3	41	48	5.0	3.5	30.0	5.9	5.7	5.9	5.4	5.8												5.7	-0.7	-14.8	
Plate	PS	C	C4	29	41	5.0	3.5	30.0	5.3	6.0	6.0	5.3	4.4	4.3	4.2										5.1	-0.1	-1.4	
Plate	StB	C	C4	29	41	5.0	3.5	30.0	6.0	5.8	6.0	5.7	5.8	5.6	5.7										5.8	-0.8	-16.0	
Plate	PS	C	C5	25	29	6.0	4.2	30.0	5.4	5.7	5.3	5.4	5.6	6.4											5.6	0.4	6.1	
Plate	StB	C	C5	25	29	6.0	4.2	30.0	5.6	5.6	5.5	5.7													5.6	0.4	6.7	
Plate	PS	C	C6	25	29	6.0	4.2	30.0	5.1	5.4	5.5	5.3													5.3	0.7	11.3	
Plate	StB	C	C6	25	29	6.0	4.2	30.0	5.4	5.4	5.6	5.6	5.3	4.7											5.3	0.7	11.1	
Operator's signature :																								Legend: Below class min				
																								Substantial corr				



Report on thickness measurements of all shell, deck plating , structuralal members

Ship's name

KAPTEINIS ORLE

IMO No

8954685

Report №

HR-04-16

1	Structure : SHELL PLATING																									
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual th-s , MM	Max. allow.demination %	Remaining thickness gauged Si, MM														Average values			Notes
																							Residual thickness S1,	Deminution		
																								absolut e	relative	
									MM	MM	%															
2	3	4	5	6	7	8	9	10	11														12	13	14	15
Plate	PS	C	C7	15	25	6.0	4.2	30.0	5.8	5.7	5.7	5.3	5.7	5.5									5.6	0.4	6.4	
Plate	StB	C	C7	15	25	6.0	4.2	30.0	7.8	7.2	7.7	7.9	7.8	7.9									7.7	-1.7	-28.6	
Plate	PS	C	C8	6	15	8.0	5.6	30.0	7.2	7.3	6.7	7.4	6.5	5.6	6.3	6.7	7.1	5.4	7.4	7.6			6.8	1.2	15.4	
Plate	StB	C	C8	6	15	8.0	5.6	30.0	7.8	7.8	7.3	7.8	7.7									7.7	0.3	4.0		
Plate	PS	C	C9	1	6	8.0	5.6	30.0	7.9	7.6	7.8	7.6	7.4									7.7	0.3	4.3		
Plate	StB	C	C9	1	6	8.0	5.6	30.0	7.8	7.7	7.2	5.1	6.8									6.9	1.1	13.5		
Plate	PS	C	C10	0	4	8.0	5.6	30.0	7.5	6.3	6.9	7.8										7.1	0.9	10.9		
Plate	PS	D	D1	51	53	7.0	4.9	30.0	5.6	5.2	5.3	6.1										5.6	1.5	20.7		
Plate	StB	D	D1	51	53	7.0	4.9	30.0	5.8	6.1	5.8	5.7										5.9	1.2	16.4		
Plate	PS	D	D2	51	53	7.0	4.9	30.0	7.7	7.8	7.7											7.7	-0.7	-10.5		
Plate	StB	D	D2	51	53	7.0	4.9	30.0	7.8	7.8	7.7											7.8	-0.8	-11.0		
Plate	PS	D	D3	51	53	7.0	4.9	30.0	7.8	7.8	7.9											7.8	-0.8	-11.9		
Plate	StB	D	D3	51	53	7.0	4.9	30.0	7.8	7.9	7.7											7.8	-0.8	-11.4		
Plate	PS	D	D4	48	51	7.0	4.9	30.0	7.8	7.8	7.7	7.7	8.0									7.8	-0.8	-11.4		
Plate	StB	D	D4	48	51	7.0	4.9	30.0	7.8	7.8	7.9	7.7	7.8	7.8								7.8	-0.8	-11.4		
Plate	PS	D	D5	41	48	7.0	4.9	30.0	7.9	7.8	7.7	7.8	8.0	7.8	7.7	7.7	7.7					7.8	-0.8	-11.3		
Plate	StB	D	D5	41	48	7.0	4.9	30.0	7.6	7.8	7.8	7.8	7.7	7.9	7.8	7.7	7.8					7.8	-0.8	-11.0		
Plate	PS	D	D6	34	41	6.0	4.2	30.0	6.0	5.9	5.9	6.0	6.0	5.6	5.8	5.9	5.6	6.0	6.0	5.7		5.9	0.1	2.2		
Plate	StB	D	D6	34	41	6.0	4.2	30.0	6.0	6.0	5.3	6.0	5.8	5.6	5.8	5.9	5.4	5.6				5.7	0.3	4.3		
Operator's signature :																							Legend: Below class min			
																							Substantial corr			



Report on thickness measurements of all shell, deck plating , structuralal members

Ship's name KAPTEINIS ORLE IMO No 8954685

Report № HR-04-16

1	Structure : SHELL PLATING																									
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual th-s [S1], MM	Max. allow.deminution %	Remaining thickness gauged Si, MM												Average values			Notes		
																					Residial thickness S1,	Deminution				
																						absolut e	relative			
2	3	4	5	6	7	8	9	10	11												12	13	14	15		
Plate	PS	D	D7	29	34	8.0	5.6	30.0	7.2	7.0	7.7	7.3	7.5	6.8									7.3	0.8	9.4	
Plate	StB	D	D7	29	34	6.0	4.2	30.0	6.0	5.6	5.7	4.9	6.0	5.0	5.4	6.0	5.3	5.6					5.6	0.5	7.5	
Plate	PS	D	D8	20	29	8.0	5.6	30.0	7.0	6.8	7.2	6.9	7.9	7.2									7.2	0.8	10.4	
Plate	StB	D	D8	20	29	8.0	5.6	30.0	7.7	7.6	8.0	7.7	7.7	7.7	7.1	7.4	7.9						7.6	0.4	4.4	
Plate	PS	D	D9	17	20	8.0	5.6	30.0	7.8	7.7	7.8	7.7	6.2	6.1	5.8								7.0	1.0	12.3	
Plate	StB	D	D9	17	20	8.0	5.6	30.0	7.7	7.7	7.9	7.8	7.8	7.6	7.8	7.8							7.8	0.2	3.0	
Plate	PS	D	D10	15	17	6.0	4.2	30.0	6.0	6.0	6.0	5.9											6.0	0.0	0.4	
Plate	StB	D	D10	15	17	6.0	4.2	30.0	5.3	5.3	5.3												5.3	0.7	11.7	
Plate	PS	D	D11	6	15	6.0	4.2	30.0	5.8	6.0	5.9	5.7	4.5	5.3	5.7								5.6	0.4	7.4	
Plate	StB	D	D11	6	15	6.0	4.2	30.0	5.7	5.2	5.0	5.3	4.3	5.2	5.2	5.7							5.2	0.8	13.3	
Plate	PS	D	D12	1	6	5.0	3.5	30.0	4.1	4.7	4.5	4.7											4.5	0.5	10.0	
Plate	StB	D	D12	1	6	5.0	3.5	30.0	4.7	4.8	4.5	4.7	4.8										4.7	0.3	6.0	
Operator's signature :																							Legend: Below class min			
																							Substantial corr			

Report on thickness measurements of all shell, deck plating , structuralal members

Ship's name

KAPTEINIS ORLE

IMO No

8954685

Report №

HR-04-16

1	Structure : TRANSVERSE BHD, Fr.3																										
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual th-s [S1], MM	Max. allow.deminution %	Remaining thickness gauged Si, MM														Average values			Notes	
																							Residual thickness S1,	Deminution			
																								absolut e	relative		
									2	3	4	5	6	7	8	9	10	11									
Plate	PS	A1		3		5.0	3.5	30.0	4.6	4.7	4.7	4.7	4.7	4.5	4.7	3.4	3.9							4.4	0.6	11.3	partly renew
Plate	StB	A1		3		5.0	3.5	30.0	4.7	4.7	4.6	4.3	3.7	4.5									4.4	0.6	11.7	partly renew	
Plate	PS	A		3		7.0	4.9	30.0	6.2	6.7	6.9	7.0	6.9										6.7	0.3	3.7		
Plate	StB	A		3		7.0	4.9	30.0	6.0	6.9	6.8	7.0	7.0										6.7	0.3	3.7		
Plate	PS	B		3		5.0	3.5	30.0	4.8	4.7	4.8												4.8	0.2	4.7		
Plate	StB	B		3		5.0	3.5	30.0	4.8	4.8													4.8	0.2	4.0		
Stiffener	PS	CL		3		5.0	3.5	30.0	4.9														4.9	0.1	2.0		
Stiffener	PS	1		3		5.0	3.5	30.0	5.0														5.0	0.0	0.0		
Stiffener	StB	1		3		5.0	3.5	30.0	5.0														5.0	0.0	0.0		
Stiffener	PS	2		3		5.0	3.5	30.0	5.0														5.0	0.0	0.0		
Stiffener	StB	2		3		5.0	3.5	30.0	4.9														4.9	0.1	2.0		
Stiffener	PS	3		3		5.0	3.5	30.0	4.8														4.8	0.2	4.0		
Stiffener	StB	3		3		5.0	3.5	30.0	4.9														4.9	0.1	2.0		
Stiffener	PS	4		3		5.0	3.5	30.0	4.7														4.7	0.3	6.0		
Stiffener	StB	4		3		5.0	3.5	30.0	4.9														4.9	0.1	2.0		
Operator's signature :																							Legend: Below class min				
																							Substantial corr				

Report on thickness measurements of all shell, deck plating , structuralal members

Ship's name

KAPTEINIS ORLE

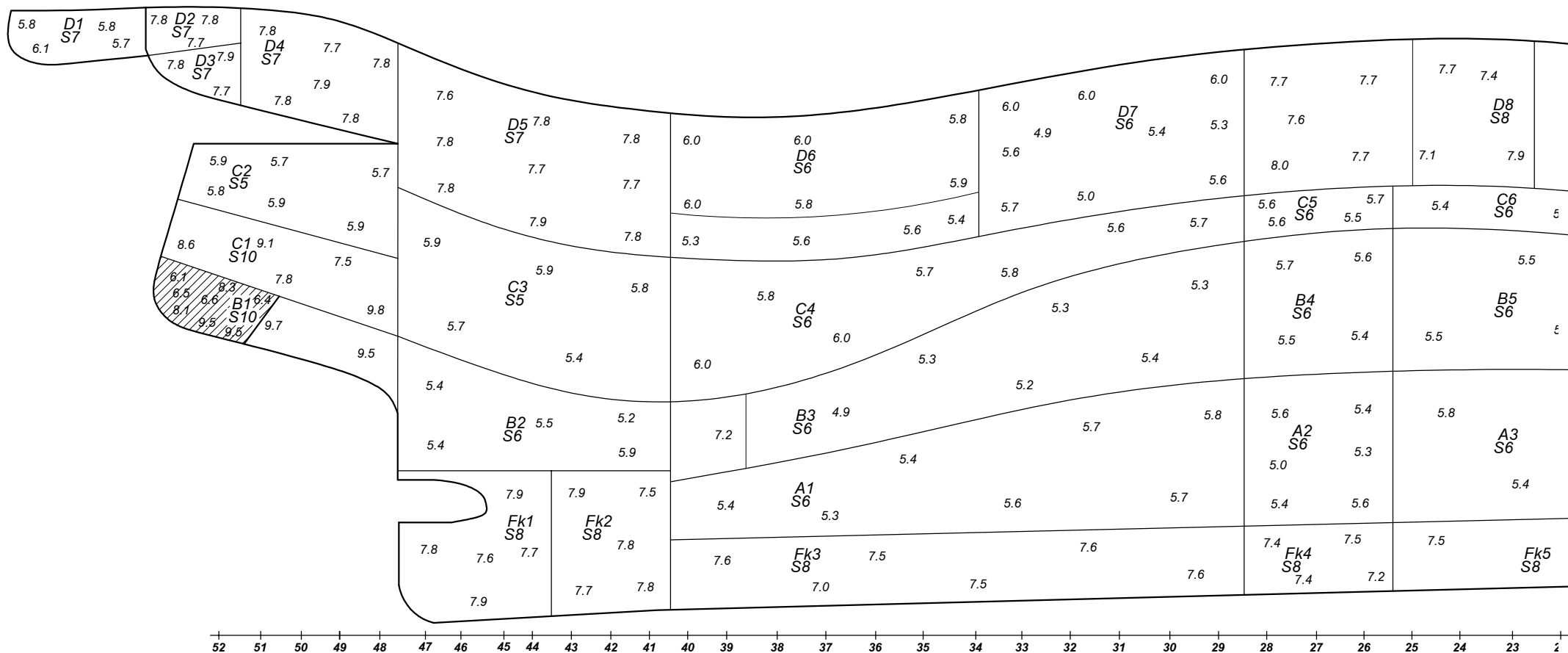
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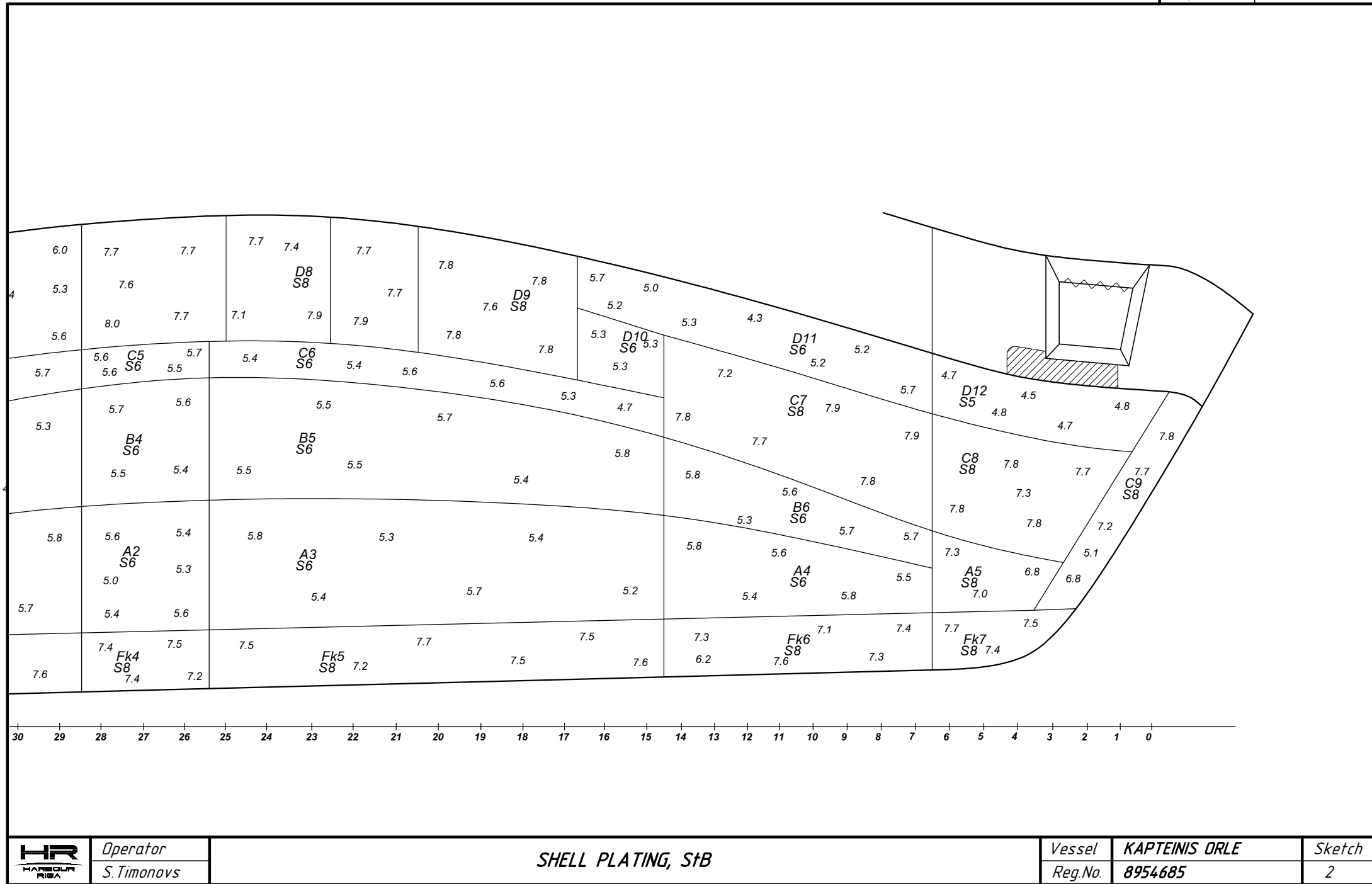
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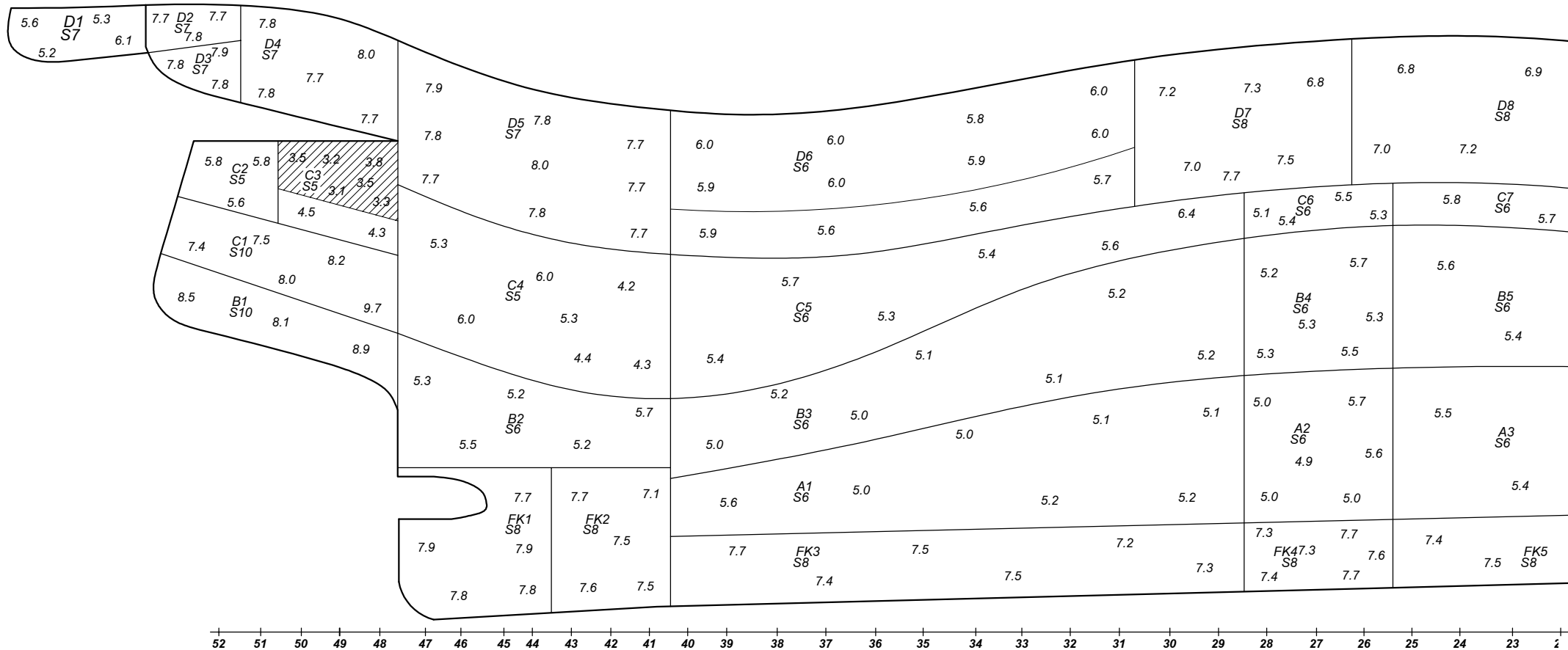
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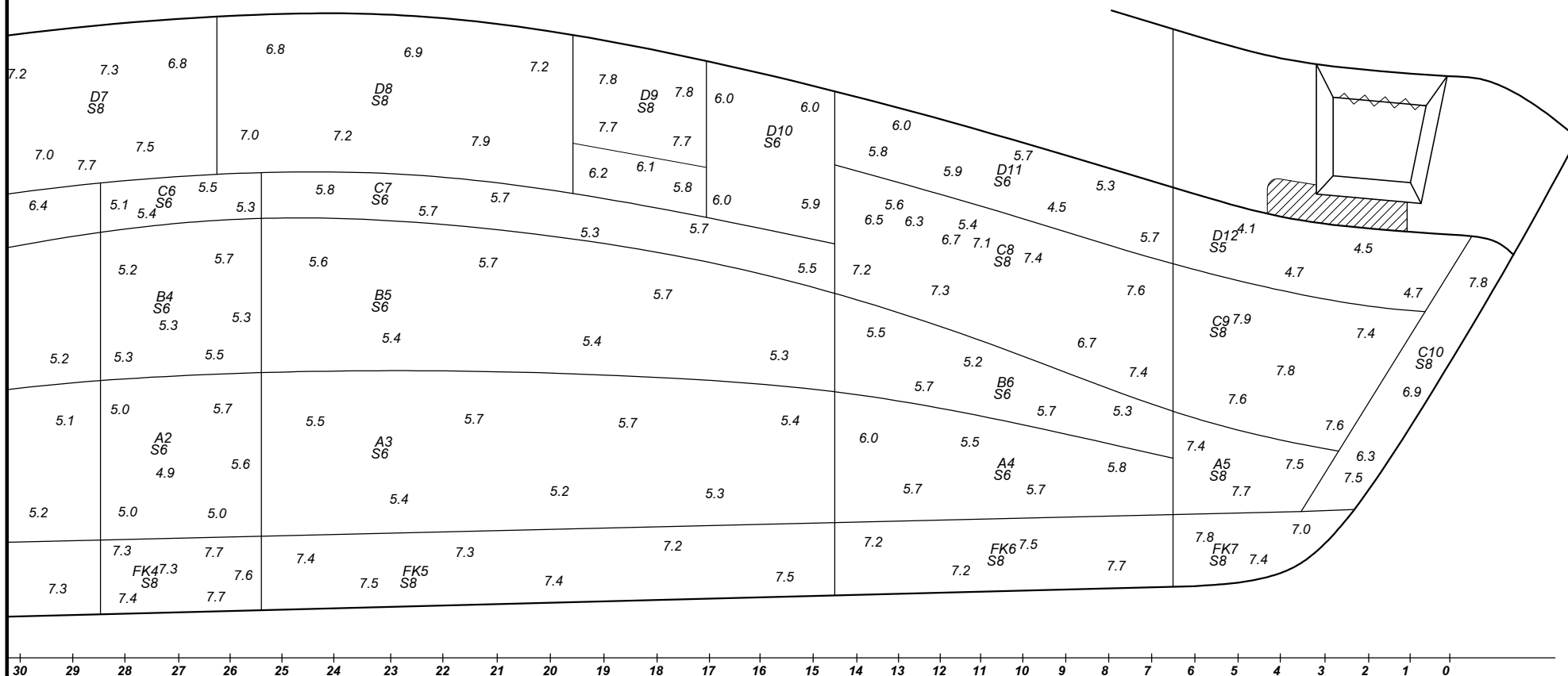
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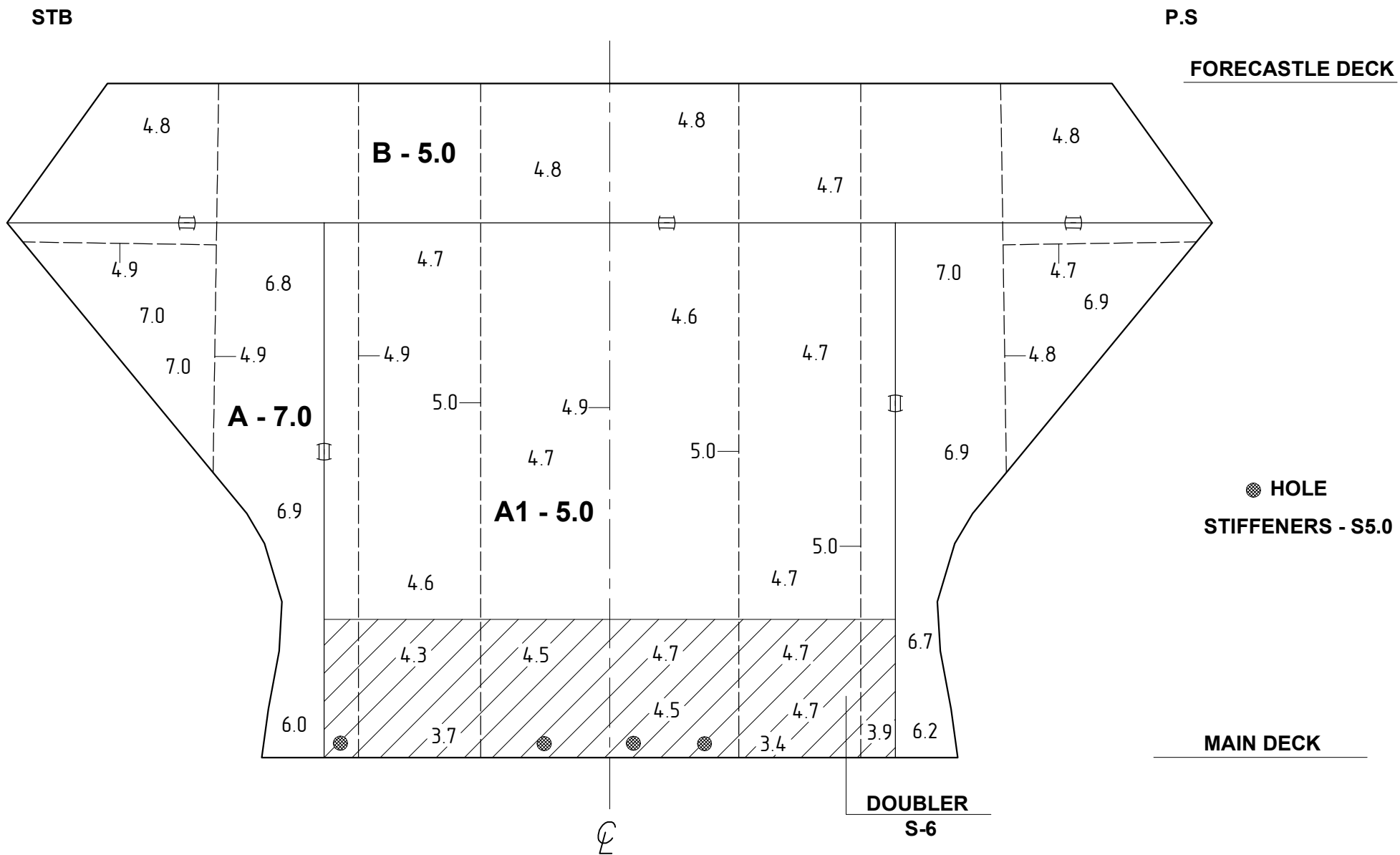
1		Structure : FRAMES																								
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual th-s [S1], MM	Max. allow.deminution %	Remaining thickness gauged Si, MM														Average values			Notes
																							Residual thickness S1,	Deminution		
																								absolut e	relative	
2	3	4	5	6	7	8	9	10	11														12	13	14	15
Plate	PS			40		7.0	4.9	30.0	6.1														6.1	0.9	12.9	
Plate	StB			40		7.0	4.9	30.0	7.2														7.2	-0.2	-2.9	
Plate	PS			41		7.0	4.9	30.0	6.4														6.4	0.6	8.6	
Plate	StB			41		7.0	4.9	30.0	6.7														6.7	0.3	4.3	
Plate	PS			42		7.0	4.9	30.0	6.5														6.5	0.5	7.1	
Plate	StB			42		7.0	4.9	30.0	6.7														6.7	0.3	4.3	
Plate	PS	A		43		10.0	7.0	30.0	9.4	9.4	9.5												9.4	0.6	5.7	
Plate	StB	A		43		10.0	7.0	30.0	9.5	9.3	9.3	9.5											9.4	0.6	6.0	
Plate	PS	A1		43		10.0	7.0	30.0	9.1														9.1	0.9	9.0	
Plate	StB	A1		43		10.0	7.0	30.0	9.1														9.1	0.9	9.0	
Plate	PS	A		44		7.0	4.9	30.0	6.5														6.5	0.5	7.1	
Plate	StB	A		44		7.0	4.9	30.0	6.6														6.6	0.4	5.7	
Plate	PS	A1		44		7.0	4.9	30.0	6.4														6.4	0.6	8.6	
Plate	StB	A1		44		7.0	4.9	30.0	6.4														6.4	0.6	8.6	
Plate	PS	A		45		7.0	4.9	30.0	6.8														6.8	0.2	2.9	
Plate	StB	A		45		7.0	4.9	30.0	6.7														6.7	0.3	4.3	
Operator's signature :																							Legend: Below class min			
																							Substantial corr			







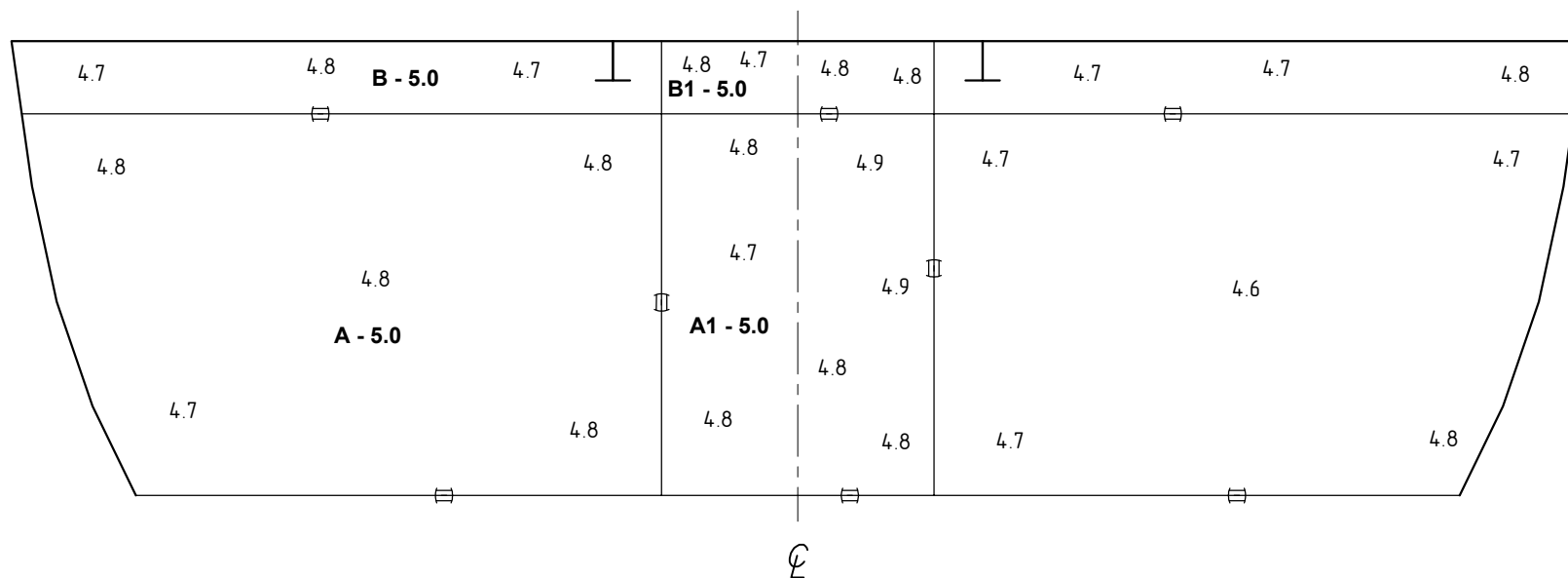




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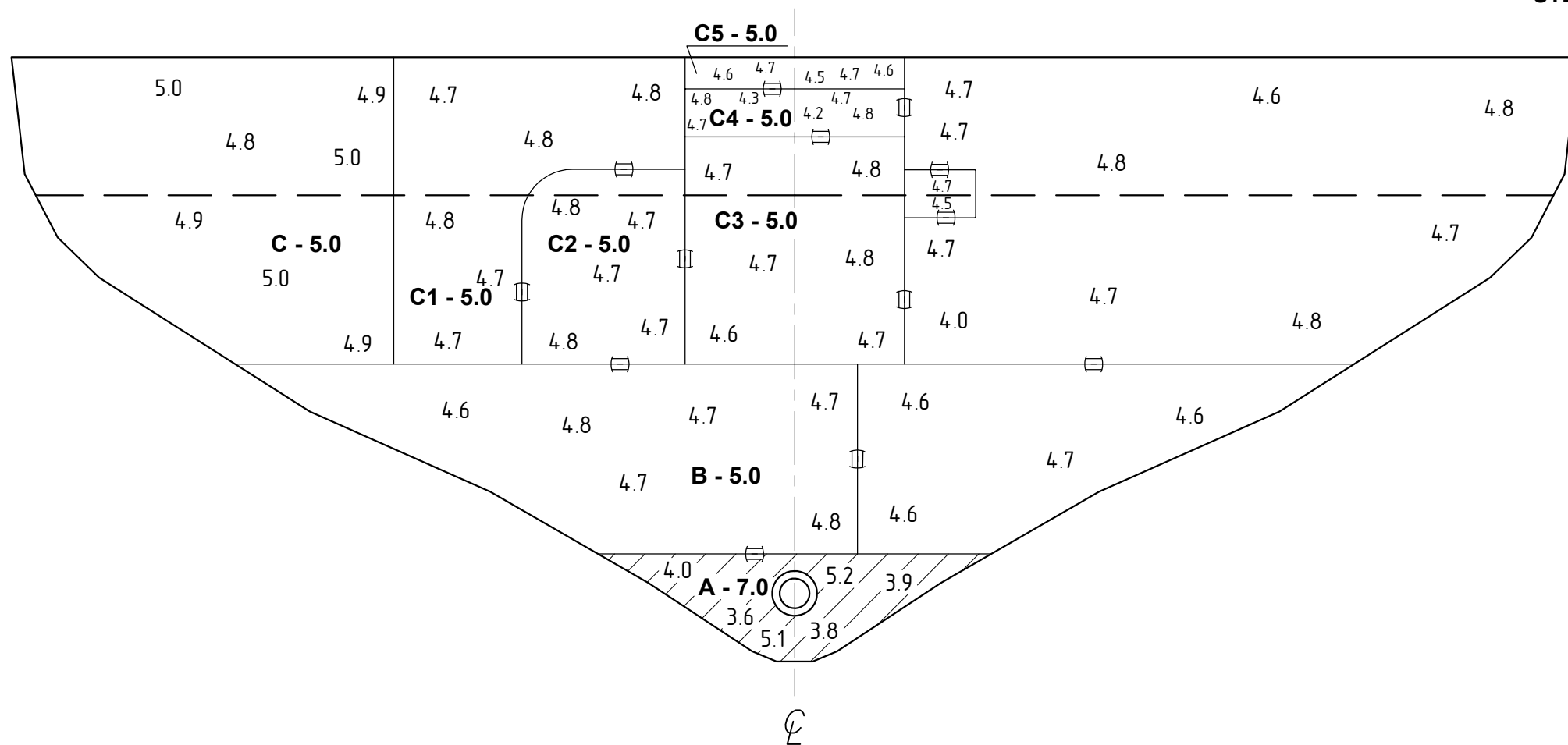
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MAIN DECK



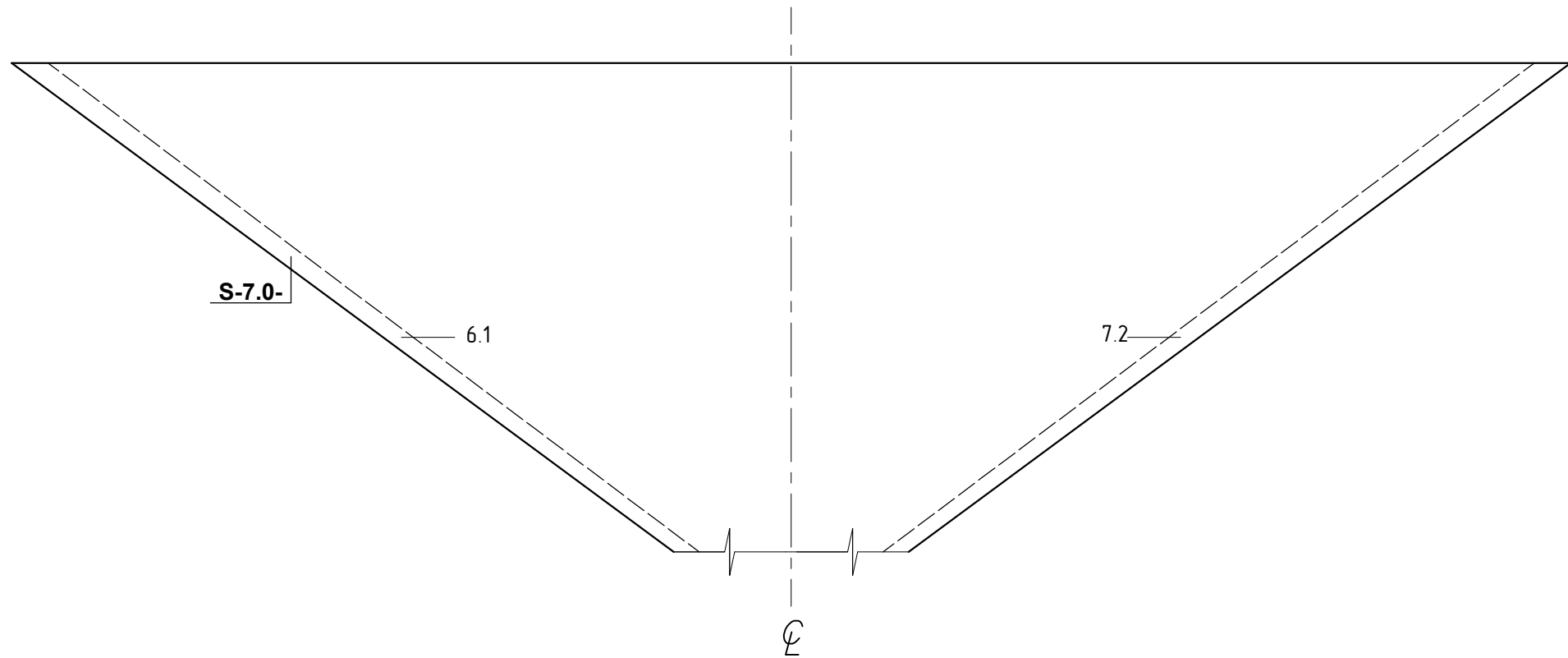
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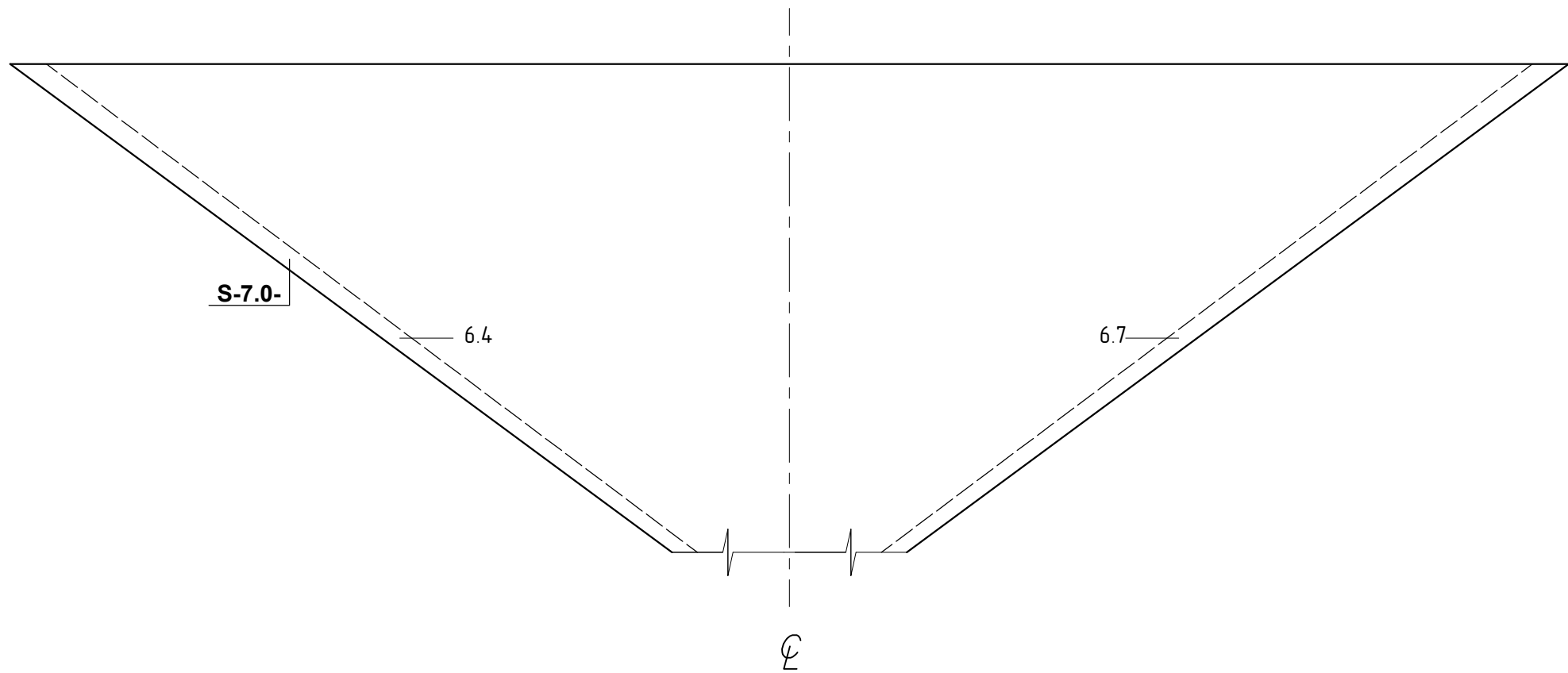
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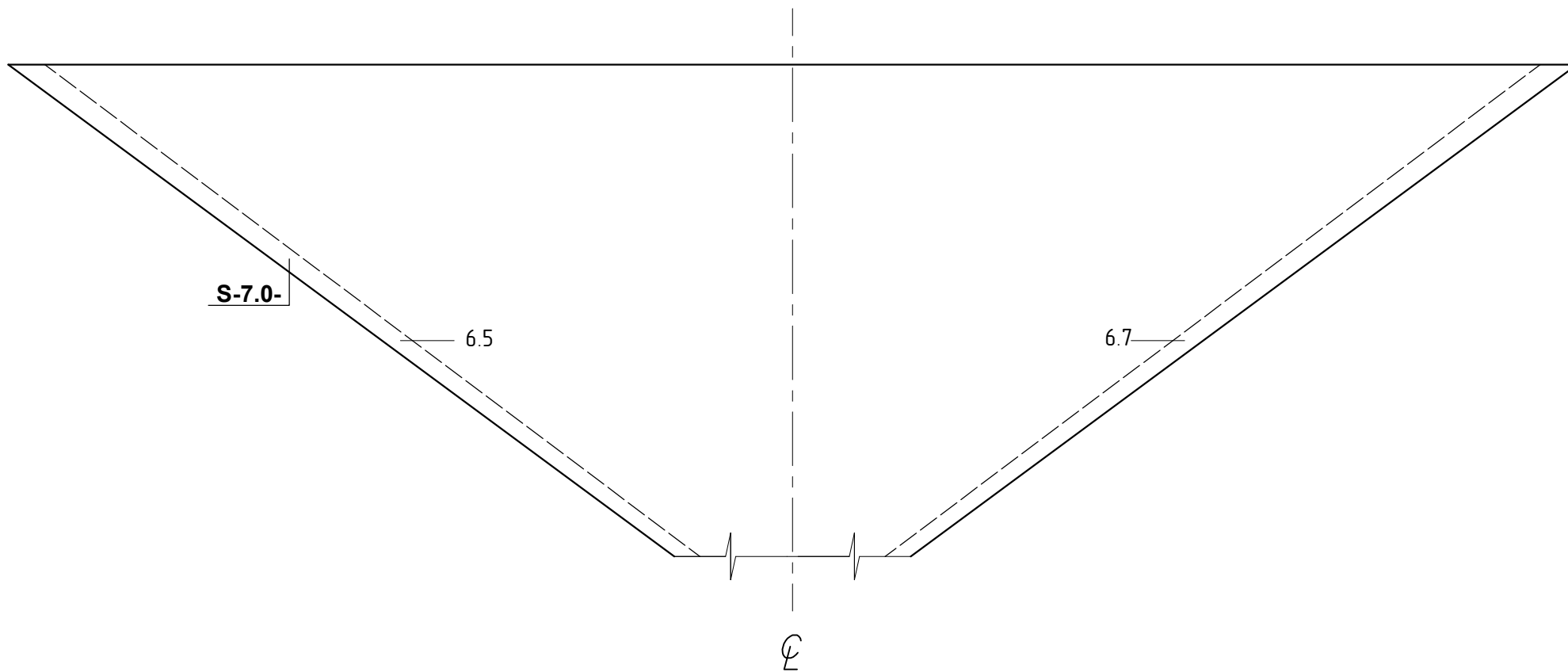
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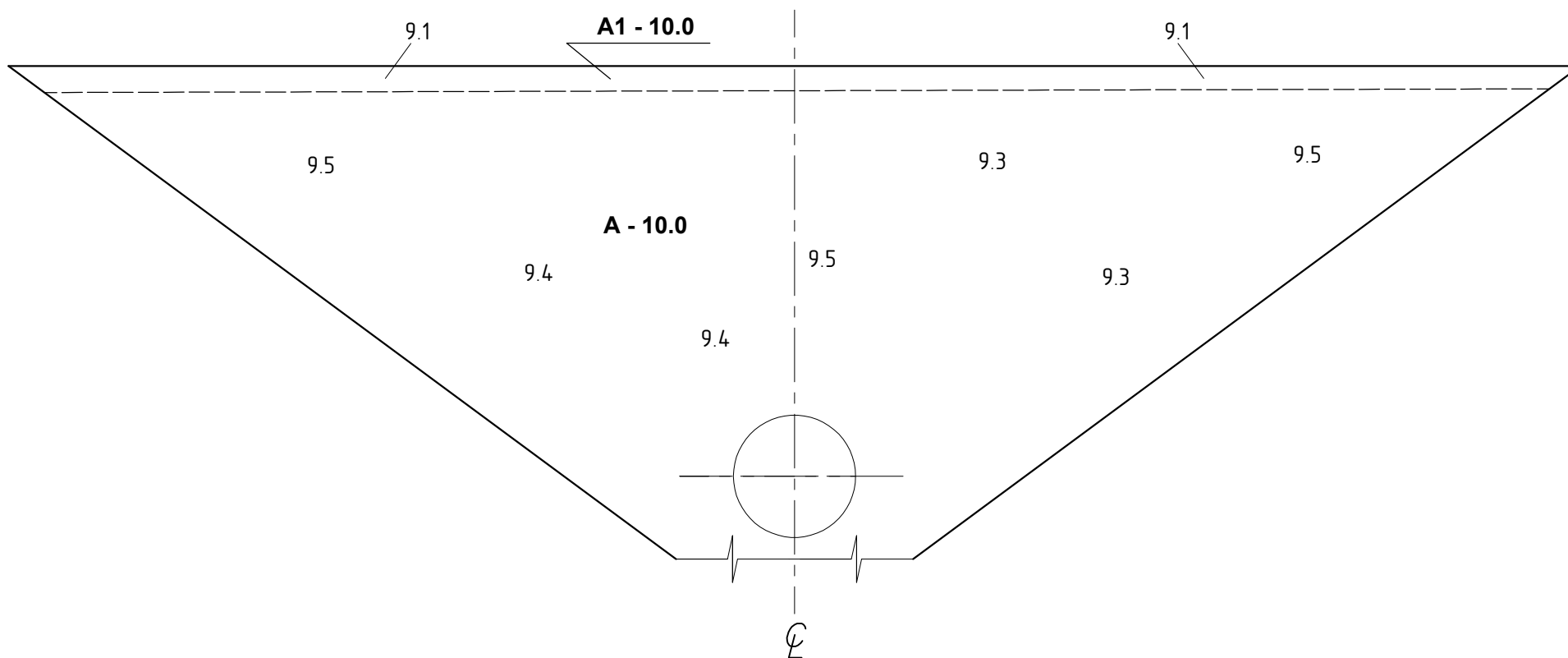
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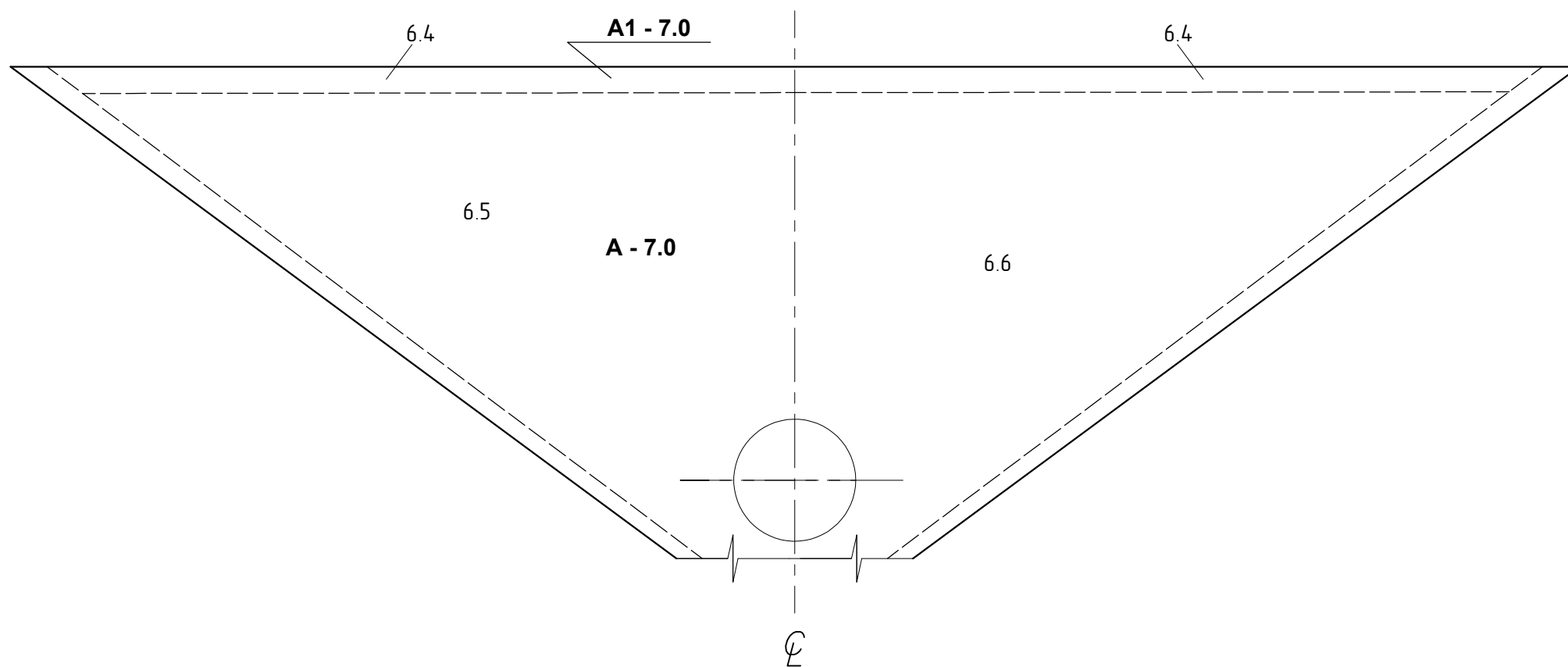
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STB



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STB

