

S.Timonovs

A handwritten signature in blue ink, appearing to be 'S. Timonovs', written over a light blue circular stamp.

Naval architect "HARBOUR RIGA "

REPORT № HR-57-15
on thickness measurements
hull structures "RINDA "

Flag Latvia

LATVIJAS JŪRAS ADMINISTRĀCIJA

Port of registry VENTSPILS

SURVEYOR

RIGA , LATVIA

2015



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.*

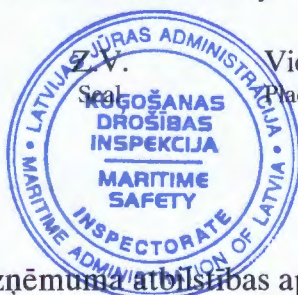
Uzņēmuma atbilstības apliecība ir derīga ar nosacījumu, ka tā tiek apstiprināta katru gadu.

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

Ikgadējā apstiprināšana
Annual confirmation

- Apliecība tiek apstiprināta, pamatojoties uz katru gadu veicamo apskati
- Certificate is endorsed on the basis of annual survey.

(uzņēmuma inspicēšanas akts Nr. _____).

Survey report No. _____

Nākamās ikgadējās apskates termiņš:

Date of next annual survey _____

Vieta _____

Place _____

Zīmogs vai spiedogs _____

Seal or stamp _____

Datums _____

Date _____

Pilnvarotās amatpersonas paraksts, uzvārds

Signature and name of authorized official

- Apliecība tiek apstiprināta, pamatojoties uz katru gadu veicamo apskati
- Certificate is endorsed on the basis of annual survey.

(uzņēmuma inspicēšanas akts Nr. _____).

Survey report No. _____

Nākamās ikgadējās apskates termiņš:

Date of next annual survey _____

Vieta _____

Place _____

Zīmogs vai spiedogs _____

Seal or stamp _____

Datums _____

Date _____

Pilnvarotās amatpersonas paraksts, uzvārds

Signature and name of authorized official

- Apliecība tiek apstiprināta, pamatojoties uz katru gadu veicamo apskati
- Certificate is endorsed on the basis of annual survey.

(uzņēmuma inspicēšanas akts Nr. _____).

Survey report No. _____

Nākamās ikgadējās apskates termiņš:

Date of next annual survey _____

Vieta _____

Place _____

Zīmogs vai spiedogs _____

Seal or stamp _____

Datums _____

Date _____

Pilnvarotās amatpersonas paraksts, uzvārds

Signature and name of authorized official

- Apliecība tiek apstiprināta, pamatojoties uz katru gadu veicamo apskati
- Certificate is endorsed on the basis of annual survey.

(uzņēmuma inspicēšanas akts Nr. _____).

Survey report No. _____

Nākamās ikgadējās apskates termiņš:

Date of next annual survey _____

Vieta _____

Place _____

Zīmogs vai spiedogs _____

Seal or stamp _____

Datums _____

Date _____

Pilnvarotās amatpersonas paraksts, uzvārds

Signature and name of authorized official

- Apliecība tiek apstiprināta, pamatojoties uz katru gadu veicamo apskati
- Certificate is endorsed on the basis of annual survey.

(uzņēmuma inspicēšanas akts Nr. _____).

Survey report No. _____

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)

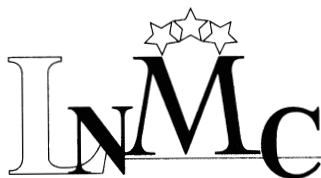
Manager of certification
body of persons



(signature)

V.Rodionova

(N.S.)



SABIEDRĪBA AR IEROBEŽOTU ATBILDĪBU
"LATVIJAS NACIONĀLAIS METROLOĢIJAS CENTRS"

Reģ. Nr. 40003435328, K. Valdemāra iela 157, Rīga, LV-1013, tālr.: 67378165
Fakss: 67362805, e-pasts: info@lnmc.lv, http://www.lnmc.lv

KALIBRĒŠANAS SERTIFIKĀTS Nr.G0164K15

CALIBRATION CERTIFICATE

Kalibrēšanas uzlīmes numurs 304710

Label of calibration



ĢEOMETRISKO UN KUSTĪBAS PARAMETRU MĒRĪJUMU LABORATORIJA

Laboratory of Geometrical and Motion Parameters Measurement

Mērlīdzekļa nosaukums

Calibration item

Tips DM4

Type

Nr.

Serial No.

16855-*015PD9*

Mērdiapažons

Measuring range

(1,2 – 200,0) mm

Ražotājs

Manufacturer

"GE Inspection Technologies" ASV

Pasūtītājs

Customer

SIA "HARBOUR RIGA"

Zivju iela 1, Rīga

Kalibrēšanas metode un nosacījumi LNMC G 167:2010

Calibration method and environmental conditions

temperatūra (20±2)°C; gaisa relatīvais mitrums līdz 80%

Kalibrēšanas datums 2015.gada "15." janvāris

Date of calibration

Rezultāti

Results

Skatīt otrajā lapā

Izsekojamība LNMC darba etalons – biezuma mēru etalonkomplekts Nr. 27

Traceability

(tērauds 40X13), kura izsekojamība līdz SI mērvienībām nodrošināta
starptautiski atzītajā Baltkrievijas metroloģijas institūcijā BelGIM.



Laboratorijas vadītājs

Head of Laboratory

[Signature]

D.Burmistre
(paraksts un tā atšifrējums t.67362086)
(signature and name)

Izpildītājs

Operator

[Signature]

D.Burmistre
(paraksts un tā atšifrējums)
(signature and name)

Izdošanas datums

Date of issue

201 5.gada "16." janvāris

Lapa 1(2)

Page

Sertifikātu aizliegts pavairot nepilnā apjomā bez kalibrēšanas laboratorijas rakstiskas atļaujas.

This certificate may not be reproduced other than in full, except with the prior written approval of laboratory of LNMC.



MĒRĪJUMU REZULTĀTI:
Measurement results

Kalibrēšanā izmantots: *Pārveidotājs DA 301; Nr.56904-32101; 5 MHz;*
In calibration used

Mērīšanas režīms : „CAL” pie $C=6070$ m/s

Etalona biezuma mēra nominālizmērs, mm	Ultraskaņas ātrums, m/s	Faktiskais vidējais izmērs, mm	Kļūda, ņemot vērā izplatīšanās ātrumu, mm	Nenoteiktība, mm	Pārklāšanās koeficients
2,01	6077	-	-	-	-
3,02	6077	3.08	0.06	0.059	2.00
5,01	6076	5.04	0.03	0.061	2.00
10,02	6073	10.04	0.02	0.063	2.00
20,04	6070	20.09	0.05	0.062	2.00
50,12	6064	50.12	0.04	0.086	2.13
75,23	6061	75.23	0.11	0.071	2.00
100,32	6060	-	-	-	-

Mērījumu nenoteiktība U aprēķināta pie varbūtības 95,45%.

Nenoteiktība aprēķināta saskaņā ar EA – 4/02 M:2013 rekomendācijām.
Uncertainty has been calculated according to EA-4/02 M:2013 recommendation.

Izpildītājs
Operator


(paraksts un tā atšifrējums)
(signature and name)

D.Burmistre

THICKNESS MEASUREMENT REPORT GENERAL PARTICULARS

Ship's name:	<i>RINDA</i>	
IMO number:		
Class identity number:	<i>1016</i>	
Port of registry:	<i>VENTSPILS</i>	
Gross tons:	<i>46,91</i>	
Deadweight:	<i>23,55</i>	
Date of build:	<i>1981</i>	
Classification society:	<i>LJA</i>	

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>7.12.2015</i>	
Last date of measurement:	<i>8.12.2015</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-57-15</i>	Consisting of 13 Sheets.
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Name of operators:	<i>S.Timonovs</i>	Name of surveyor:
Signature of operators:		Signature of surveyor:
Firm official stamp:		Classification Society
		Official Stamp:



Ship's name: RINDA
REG. No.: 1016
Report No.: HR-57-15

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

Ship's name

RINDA

REG No

1016

Report №

HR-57-15

1	Structure : Main deck plating																									
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual thickness [S _L], 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	A1	35	37	7.0	4.9	30.0	6.0	5.0	3.0	3.3											4.3	2.7	38.2	Renew
Plate	StB	A	A1	35	37	7.0	4.9	30.0	5.6	4.7	4.8	4.6											4.9	2.1	29.6	Renew
Plate	PS	A	A2	33	35	5.0	3.5	30.0	3.4	3.3	3.5	3.6											3.5	1.6	31.0	Renew
Plate	StB	A	A2	33	35	5.0	3.5	30.0	3.5	3.2	3.2	4.5	4.0										3.7	1.3	26.4	Partly renew
Plate	PS	A	A3	22	26	5.0	3.5	30.0	3.8	3.9	3.7	4.0	4.4	4.6	4.4	4.5	4.9	4.6					4.3	0.7	14.4	
Plate	StB	A	A3	22	26	5.0	3.5	30.0	3.9	4.0	4.2	4.7	4.9	3.9	3.9	4.2	4.1					4.2	0.8	16.0		
Plate	PS	A	A4	5	9	5.0	3.5	30.0	4.6	4.5	4.4	4.5	4.6									4.5	0.5	9.6		
Plate	StB	A	A4	5	9	5.0	3.5	30.0	4.4	4.6	4.5	4.6	4.5									4.5	0.5	9.6		
Plate	PS	A	A5	3	5	6.0	4.2	30.0	4.6	4.7	4.7											4.7	1.3	22.2		
Plate	StB	A	A5	3	5	6.0	4.2	30.0	4.7	4.8	4.7											4.7	1.3	21.1		
Plate	PS	A	A6	0	3	5.0	3.5	30.0	4.7	4.9	4.6	4.7										4.7	0.3	5.5		
Plate	StB	A	A6	0	3	5.0	3.5	30.0	4.6	4.6	4.5	4.5										4.6	0.5	9.0		
Plate	PS	B	B1	33	35	6.0	4.2	30.0	5.1	5.3	5.2	4.9										5.1	0.9	14.6		
Plate	StB	B	B1	33	35	6.0	4.2	30.0	5.5	5.6	5.4	5.5										5.5	0.5	8.3		
Plate	PS	B	B2	26	33	6.0	4.2	30.0	4.9	4.6	4.4	4.2	5.5	5.6	5.4	5.4	5.6					5.1	0.9	15.6	Partly renew	
Plate	StB	B	B2	26	33	6.0	4.2	30.0	5.6	5.7	5.4	5.3	5.0	5.8	5.4	4.8	4.9	5.5				5.3	0.7	11.0		
Plate	PS	B	B3	21	26	6.0	4.2	30.0	4.2	3.0	4.2	5.7	5.8	5.5	5.8							4.9	1.1	18.6	Partly renew	
Plate	StB	B	B3	21	26	6.0	4.2	30.0	5.8	5.6	5.1	5.0	5.3	5.0	5.9	5.3						5.4	0.6	10.4		
Plate	PS	B	B4	9	21	6.0	4.2	30.0	4.1	3.4	3.6	5.5	5.4	5.8	5.9	5.7	3.3	3.0	5.6			4.7	1.3	22.3	Partly renew	
Plate	StB	B	B4	9	21	6.0	4.2	30.0	5.6	4.6	5.7	4.7	5.8	4.9	5.8	4.5	5.6	4.5	4.6	5.4	4.7	5.1	0.9	14.9		
Plate	PS	B	B5	5	9	8.0	5.6	30.0	4.9	4.6	7.9	7.6	7.5	7.6								6.7	1.3	16.5	Partly renew	
Plate	StB	B	B5	5	9	8.0	5.6	30.0	7.0	7.7	7.8	7.1	7.4	7.7								7.5	0.6	6.9		
Operator's signature :																							Legend: Below class min			
Substantial corr																										



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

Ship's name

RINDA

REG No

1016

Report №

HR-57-15

1	Structure : Shell plating																									
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual thickness, MM	Max. allowable deminution %	Remaining thickness gauged Si, MM														Average values			Notes
																							Residual thickness S1,	Deminution		
									MM	MM	%															
2	3	4	5	6	7	8	9	10	11														12	13	14	15
Plate	PS	A	A1	32	34	8.0	5.6	30.0	7.5	7.3	7.2											7.3	0.7	8.3		
Plate	StB	A	A1	32	34	8.0	5.6	30.0	7.4	7.2	7.5											7.4	0.6	7.9		
Plate	PS	A	A2	19	32	8.0	5.6	30.0	6.7	6.9	6.9	6.9	6.7									6.8	1.2	14.8		
Plate	StB	A	A2	19	32	8.0	5.6	30.0	6.8	7.0	6.8	7.0	6.8	6.6								6.8	1.2	14.6		
Plate	PS	A	A3	15	19	8.0	5.6	30.0	6.4	6.5	6.9	6.6										6.6	1.4	17.5		
Plate	StB	A	A3	15	19	8.0	5.6	30.0	6.8	6.9	7.0	7.1										7.0	1.1	13.1		
Plate	PS	A	A4	13	15	8.0	5.6	30.0	7.0	7.3	7.1											7.1	0.9	10.8		
Plate	StB	A	A4	13	15	8.0	5.6	30.0	7.2	7.0	7.3											7.2	0.8	10.4		
Plate	PS	A	A5	5	13	8.0	5.6	30.0	6.3	6.7	7.1	7.1	7.0									6.8	1.2	14.5		
Plate	StB	A	A5	5	13	8.0	5.6	30.0	7.2	7.0	7.1	6.9	6.2									6.9	1.1	14.0		
Plate	PS	A	A6	2	5	6.0	4.2	30.0	5.7	5.8	5.7	5.6										5.7	0.3	5.0		
Plate	StB	A	A6	2	5	6.0	4.2	30.0	5.6	5.5	5.8	5.4										5.6	0.4	7.1		
Plate	PS	A	A7	0	2	8.0	5.6	30.0	7.4	7.3	7.5											7.4	0.6	7.5		
Plate	StB	A	A7	0	2	8.0	5.6	30.0	7.5	7.3	7.4											7.4	0.6	7.5		
Plate	PS	B	B1	17	32	8.0	5.6	30.0	7.4	7.7	2.9	4.8	7.1	5.4	5.3	5.5	5.1	7.4	5.2	7.3	4.9	5.0	5.8	2.2	27.7	Renew partly
Plate	StB	B	B1	17	32	8.0	5.6	30.0	7.3	4.9	7.3	4.8	7.4	4.7	4.6	7.3	4.3	4.3	4.4	7.5		5.7	2.3	28.3	Renew partly	
Plate	PS	B	B2	13	17	8.0	5.6	30.0	6.9	6.7	6.7	6.8										6.8	1.2	15.3		
Plate	StB	B	B2	13	17	8.0	5.6	30.0	6.8	6.9	6.9	7.0										6.9	1.1	13.8		
Plate	PS	B	B3	10	13	8.0	5.6	30.0	7.1	5.9	7.4	5.3	5.4	5.5	7.4	5.0	7.3	4.8				6.1	1.9	23.6	Renew	
Plate	StB	B	B3	10	13	8.0	5.6	30.0	7.1	5.0	4.9	7.0	5.0	7.4	5.1	5.0	7.3					6.0	2.0	25.3	Renew	
Plate	PS	B	B3.1	10	13	8.0	5.6	30.0	7.1	7.1												7.1	0.9	11.3		
Plate	StB	B	B3.1	10	13	8.0	5.6	30.0	7.7	7.6												7.7	0.4	4.4		
Operator's signature :																							Legend: Below class min			
																							Substantial corr			

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

Ship's name

RINDA

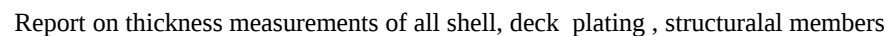
REG No

1016

Report №

HR-57-15

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				
2	3	4	5	6	7	8	9	10	11												12	13	14	15			
Plate	PS	C	B4	8	10	6.0	4.2	30.0	3.9	5.4	5.0	5.0	4.0	5.1	3.8									4.6	1.4	23.3	Renew
Plate	StB	C	B4	8	10	6.0	4.2	30.0	5.4	5.3	4.0	3.9	3.0	5.0	5.1									4.5	1.5	24.5	Renew
Plate	PS	C	B4.1	8	10	6.0	4.2	30.0	3.8	5.1	3.7	5.4	3.6											4.3	1.7	28.0	Renew
Plate	StB	C	B4.1	8	10	6.0	4.2	30.0	4.7	4.6	4.5													4.6	1.4	23.3	Renew
Plate	PS	C	B5	5	8	6.0	4.2	30.0	5.4	3.2	3.8	5.2	3.6	3.4	5.6	3.1								4.2	1.8	30.6	Renew
Plate	StB	C	B5	5	8	6.0	4.2	30.0	5.5	3.9	3.7	5.2	3.8	5.2	3.8	4.0								4.4	1.6	26.9	Renew
Plate	PS	C	B5.1	5	8	6.0	4.2	30.0	5.6	5.5	5.4	5.6												5.5	0.5	7.9	
Plate	StB	C	B5.1	5	8	6.0	4.2	30.0	5.5	5.4	5.2	5.5												5.4	0.6	10.0	
Plate	PS	C	B6	2	5	6.0	4.2	30.0	5.3	5.5	5.7	5.4												5.5	0.5	8.8	
Plate	StB	C	B6	2	5	6.0	4.2	30.0	5.5	5.4	5.3	5.2												5.4	0.7	10.8	
Plate	PS	C	C1	27	35	5.0	3.5	30.0	4.5	4.6	4.3	4.4	4.5	4.5										4.5	0.5	10.7	
Plate	StB	C	C1	27	35	5.0	3.5	30.0	4.6	4.3	4.5	4.4												4.5	0.6	11.0	
Plate	PS	D	C2	9	27	5.0	3.5	30.0	3.0	3.2	4.6	2.9	3.4	4.8	3.1	3.2	4.7	2.9	3.4	3.5	3.1	3.0	3.5	1.5	30.3	Renew	
Plate	StB	D	C2	9	27	5.0	3.5	30.0	3.2	4.5	3.1	3.3	2.9	4.0	2.8	2.9	2.3	2.4	4.3	2.9	2.7	3.0	3.2	1.8	36.7	Renew	
Plate	PS	D	D1	37	38	5.0	3.5	30.0	4.5	3.2	3.1	4.2												3.8	1.3	25.0	Renew
Plate	StB	D	D1	37	38	5.0	3.5	30.0	4.1	2.5	4.6	2.4	4.2											3.6	1.4	28.8	Renew
Plate	PS	D	D2	27	37	5.0	3.5	30.0	4.4	2.9	3.0	3.3	2.7	3.1	3.5	3.4	4.6	2.9	3.5	3.4	2.7	3.8	3.4	1.6	32.6	Renew	
Plate	StB	D	D2	27	37	5.0	3.5	30.0	3.5	4.5	3.6	4.3	2.8	2.9	4.2	2.8	2.9	2.7	2.7	4.7	4.5	2.4	3.5	1.5	30.7	Renew	
Plate	PS	D	D3	17	27	5.0	3.5	30.0	4.5	3.1	2.9	3.5	4.6	2.8	3.0	2.8	3.2	3.3	4.4	3.1	2.7	4.6	3.5	1.5	30.7	Renew	
Plate	StB	D	D3	17	27	5.0	3.5	30.0	3.5	3.0	4.1	3.2	2.7	3.0	2.9	2.7	3.0	4.2	3.0	3.4	3.3	4.2	3.3	1.7	34.0	Renew	
Plate	PS	D	D4	9	17	5.0	3.5	30.0	3.0	3.2	3.3	4.7	3.0	2.9	2.8	3.1	3.0	3.6	4.5	3.2	4.3	3.8	3.5	1.5	30.9	Renew	
Plate	StB	D	D4	9	17	5.0	3.5	30.0	3.2	4.2	3.0	2.9	4.3	2.6	2.4	2.6	3.0	3.2	3.4	4.1	2.8	3.0	3.2	1.8	36.1	Renew	
Operator's signature :																					Legend: Below class min						
																					Substantial corr						



Form 1.2

Ship's name

RINDA

REG No

1016

Report №

HR-57-15

5

Ship's name

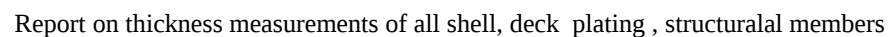
RINDA

REG No

1016

Report № HR-57-15

1	Structure : Top of Void space																										
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual thickness [S1], MM	Max. allow. deminution %	Remaining thickness gauged Si, MM															Average values			Notes
																								Residual thickness S1,	Deminution		
										absolute	relative																
									2	3	4	5	6	7	8	9	10	11									
Plate	PS	A	A1	1	2	4.0	2.8	30.0	3.1	3.2													3.2	0.9	21.3		
Plate	StB	A	A1	1	2	4.0	2.8	30.0	3.2	3.1													3.2	0.9	21.3		
Plate	PS	A	A2	2	6	4.0	2.8	30.0	3.4	3.3	3.2	3.1	3.2										3.2	0.8	19.0		
Plate	StB	A	A2	2	6	4.0	2.8	30.0	3.2	3.1	3.3												3.2	0.8	20.0		
Plate	PS	A	A3	6	10	4.0	2.8	30.0	3.2	3.3	3.2	3.1											3.2	0.8	20.0		
Plate	StB	A	A3	6	10	4.0	2.8	30.0	3.1	3.1	3.1	3.2											3.1	0.9	21.9		
Plate	PS	B	B1	2	6	4.0	2.8	30.0	3.1	3.2	3.4	3.2	3.2										3.2	0.8	19.5		
Plate	StB	B	B1	2	6	4.0	2.8	30.0	3.3	3.1	3.0	3.2											3.2	0.9	21.3		
Plate	PS	B	B1.1	4	5	8.0	5.6	30.0	7.5	7.7													7.6	0.4	5.0		
Plate	StB	B	B1.1	4	5	8.0	5.6	30.0	7.3	7.7													7.5	0.5	6.3		
Plate	PS	B	B2	6	10	4	2.8	30.0	3.1	3.2	3.1	3.2	3.0	3.2	3.2								3.1	0.9	21.4		
Plate	StB	B	B2	6	10	4	2.8	30.0	3.2	3.4	3.4	3.3	3.1	3.1	3.2								3.2	0.8	18.9		
Operator's signature :																							Legend: Below class min				
																							Substantial corr				



Ship's name

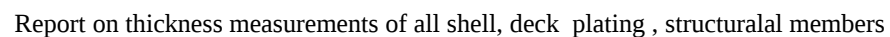
RINDA

REG No

1022

Report № HR-57-15

7



Form 1.2

Ship's name

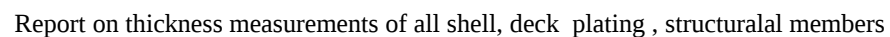
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REG No

1016

Report № HR-57-15

8



Ship's name

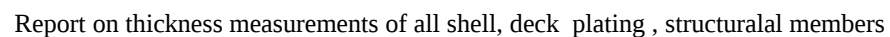
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REG No

1022

Report № HR-57-15

10



Form 1.2

Ship's name

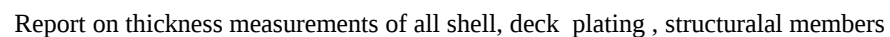
RINDA

REG No

1022

Report № HR-57-15

11



Ship's name

RINDA

REG No

1016

Report № HR-57-15

Legend:	Below class min
	Substantial corr

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

Ship's name

RINDA

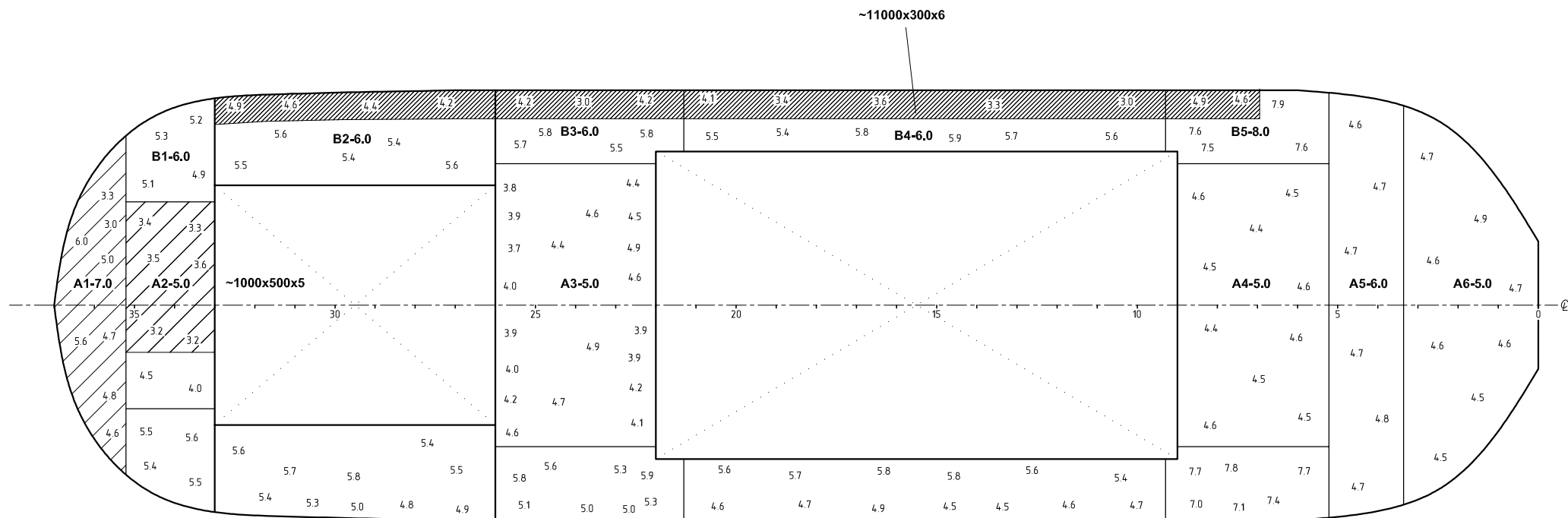
REG No

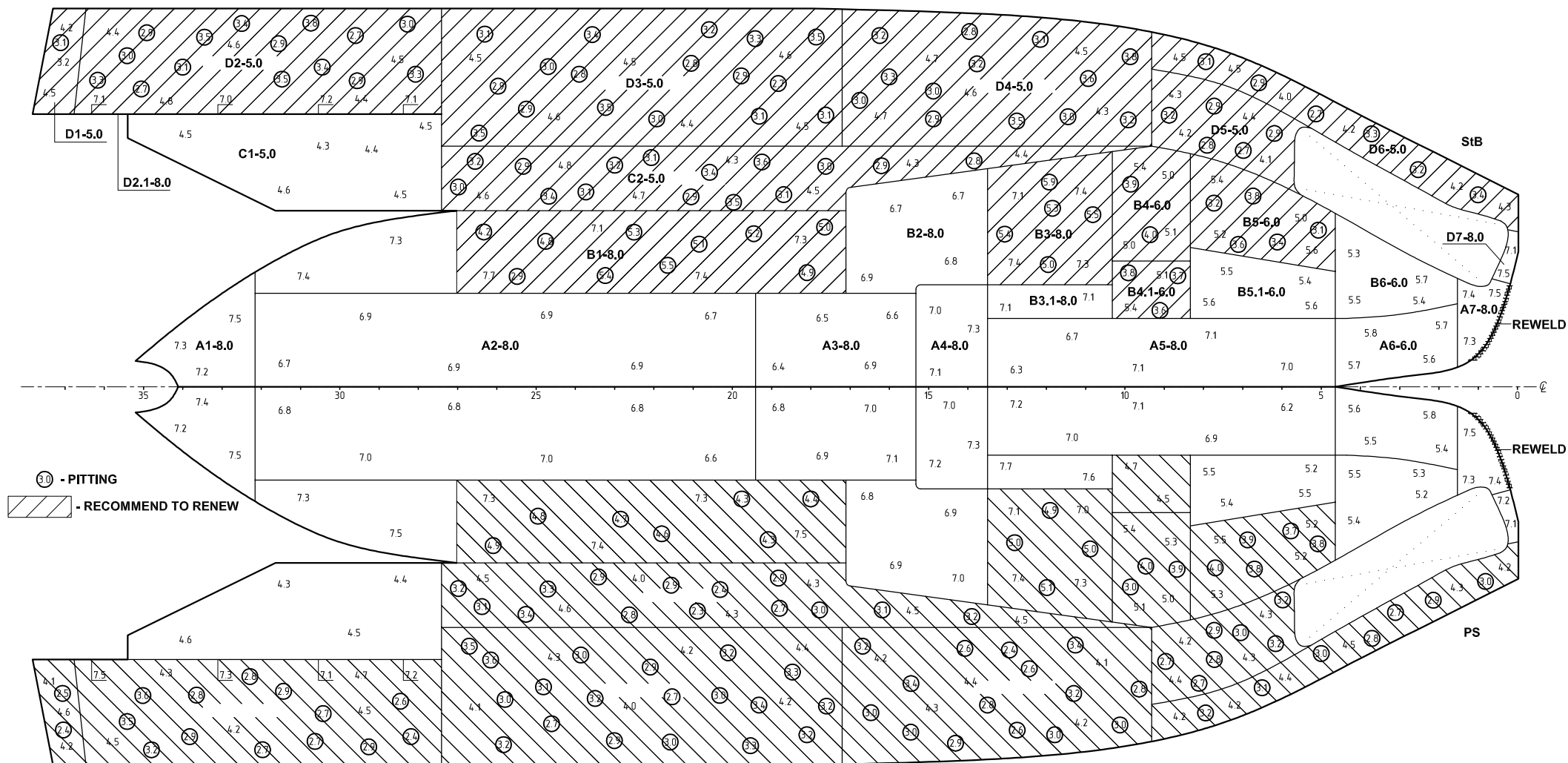
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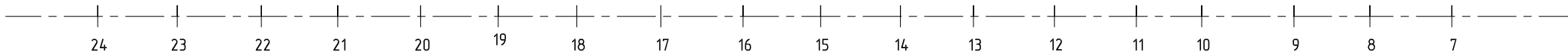
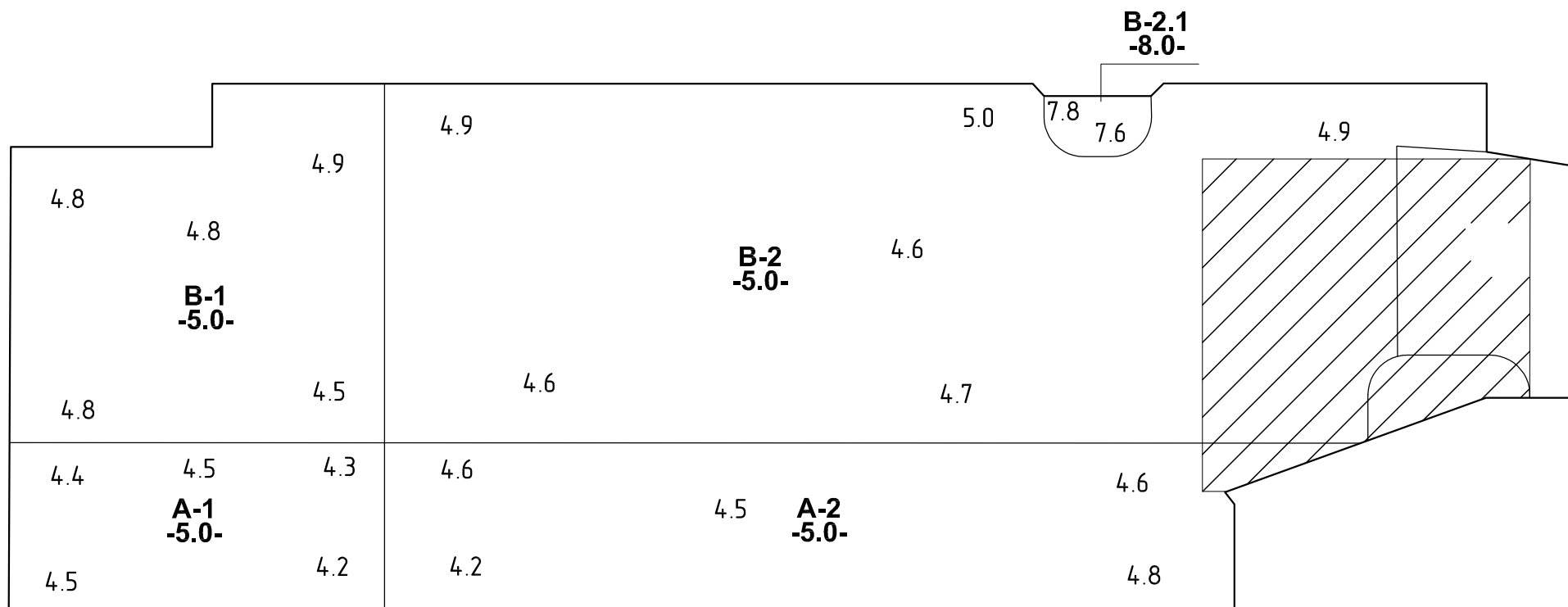
Report №

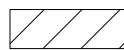
HR-57-15

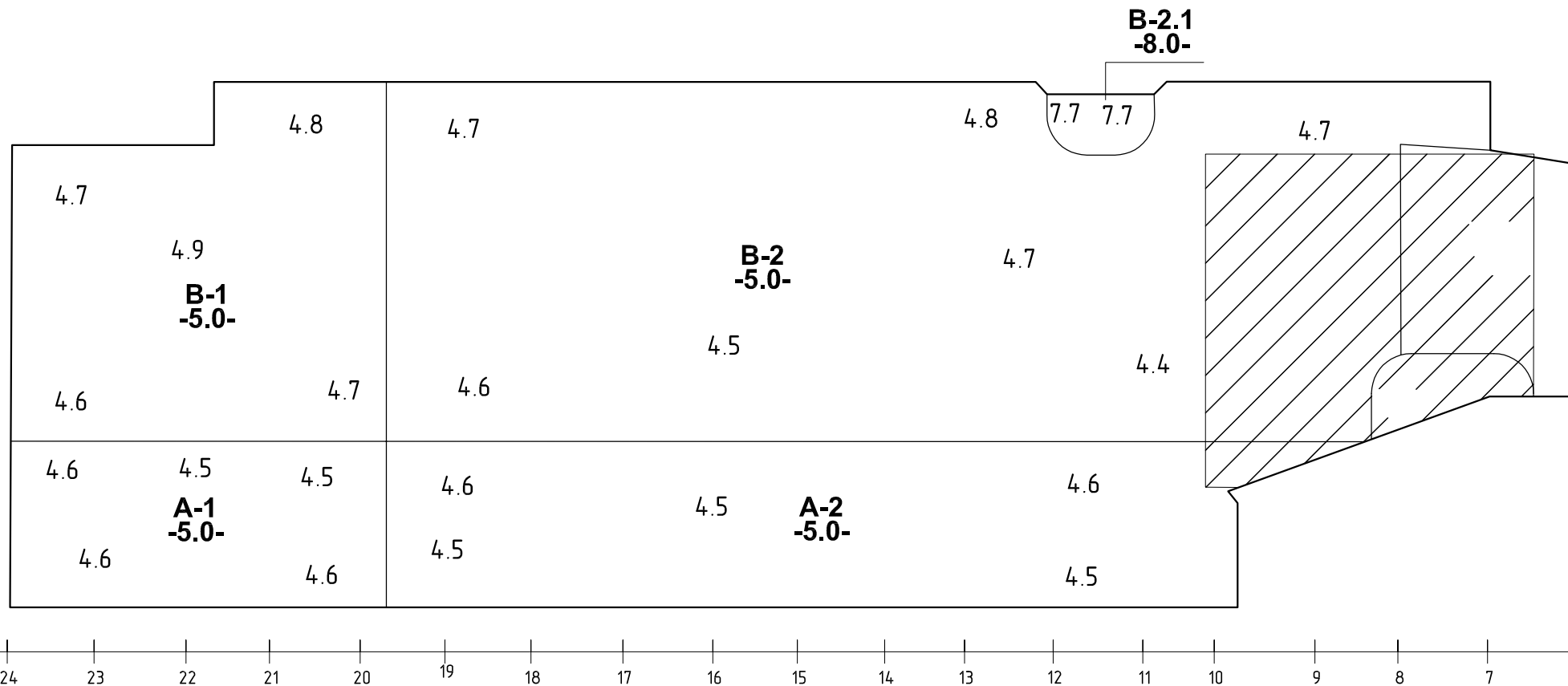
1	Structure : Float space 7-10fr.																									
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual thickness [S1], MM	Max. allow.deminution %	Remaining thickness gauged Si, MM														Average values			Notes
																							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	7	10	5.0	3.5	30.0	3.7	4.1	4.3	3.8	3.9									4.0	1.0	20.8		
Plate	StB		A	7	10	5.0	3.5	30.0	4.0	3.9	4.0	3.9	4.4									4.0	1.0	19.2		
Plate	PS		B	7	9	5.0	3.5	30.0	3.4	3.5	3.0	2.9	3.7	3.4	3.5	2.9	3.0	3.1				3.2	1.8	35.2	Renew	
Plate	StB		B	7	9	5.0	3.5	30.0	3.2	3.2	3.1	3.2	3.5	3.3	3.4	2.8	3.4	3.1				3.2	1.8	35.6	Renew	
Plate	PS		B1	7	9	5.0	3.5	30.0	4.1	4.3	4.4											4.3	0.7	14.7		
Plate	StB		B1	7	9	5.0	3.5	30.0	4.1	4.3	4.4											4.3	0.7	14.7		
Plate	PS		B2	9	10	12	8.4	30.0	11.7	11.6												11.7	0.4	2.9		
Plate	StB		B2	9	10	12	8.4	30.0	11.1	11.2												11.2	0.9	7.1		
Plate	PS		B3	9	10	5	3.5	30.0	3.0	3.3												3.2	1.9	37.0	Renew	
Plate	StB		B3	9	10	5	3.5	30.0	3.2	2.9												3.1	2.0	39.0	Renew	
Plate	PS		C	10	10	5	3.5	30.0	3.3	3.4	3.0	3.1	3.4	3.0	3.2	3.8	3.5	3.9	3.8	3.7	3.5	3.4	1.6	31.4	Renew	
Plate	StB		C	10	10	5	3.5	30.0	3.5	2.8	3.2	3.1	3.1	3.3	3.7	3.2	3.8	3.0	3.9	3.7		3.4	1.6	32.8	Renew	
Plate	PS		D	7	10	5	3.5	30.0	3.1	3.2	3.1	3.3	2.7	2.9	3.0	2.8	3.0	2.9	3.4	2.9	3.5	2.3	3.0	2.0	39.9	Partly renew
Plate	StB		D	7	10	5	3.5	30.0	3.0	3.1	2.9	3.1	3.0	2.9	3.0	3.2	2.9	3.3	2.9	3.1	3.3		3.1	1.9	38.9	Partly renew
Plate	PS		D1	7	9	5	3.5	30.0	3.0	3.4	3.0	3.2	3.2	3.5	3.4	3.3	3.4					3.3	1.7	34.7	Renew	
Plate	StB		D1	7	9	5	3.5	30.0	3.8	3.1	3.3	3.4	3.0	3.1	2.8	3.2	3.1					3.2	1.8	36.0	Renew	
Plate	PS		E	7	7	5	3.5	30.0	4.0	4.2	3.0	2.9	3.6	3.2	3.0	3.1	2.9					3.3	1.7	33.6	Partly renew	
Plate	StB		E	7	7	5	3.5	30.0	4.5	4.6	2.8	2.7	2.6	3.3	3.0	2.9	2.8	3.0				3.2	1.8	35.6	Partly renew	
Operator's signature :																						Legend: Below class min				
																						Substantial corr				







 - RECOMMEND TO RENEW
FLOAT SPACE

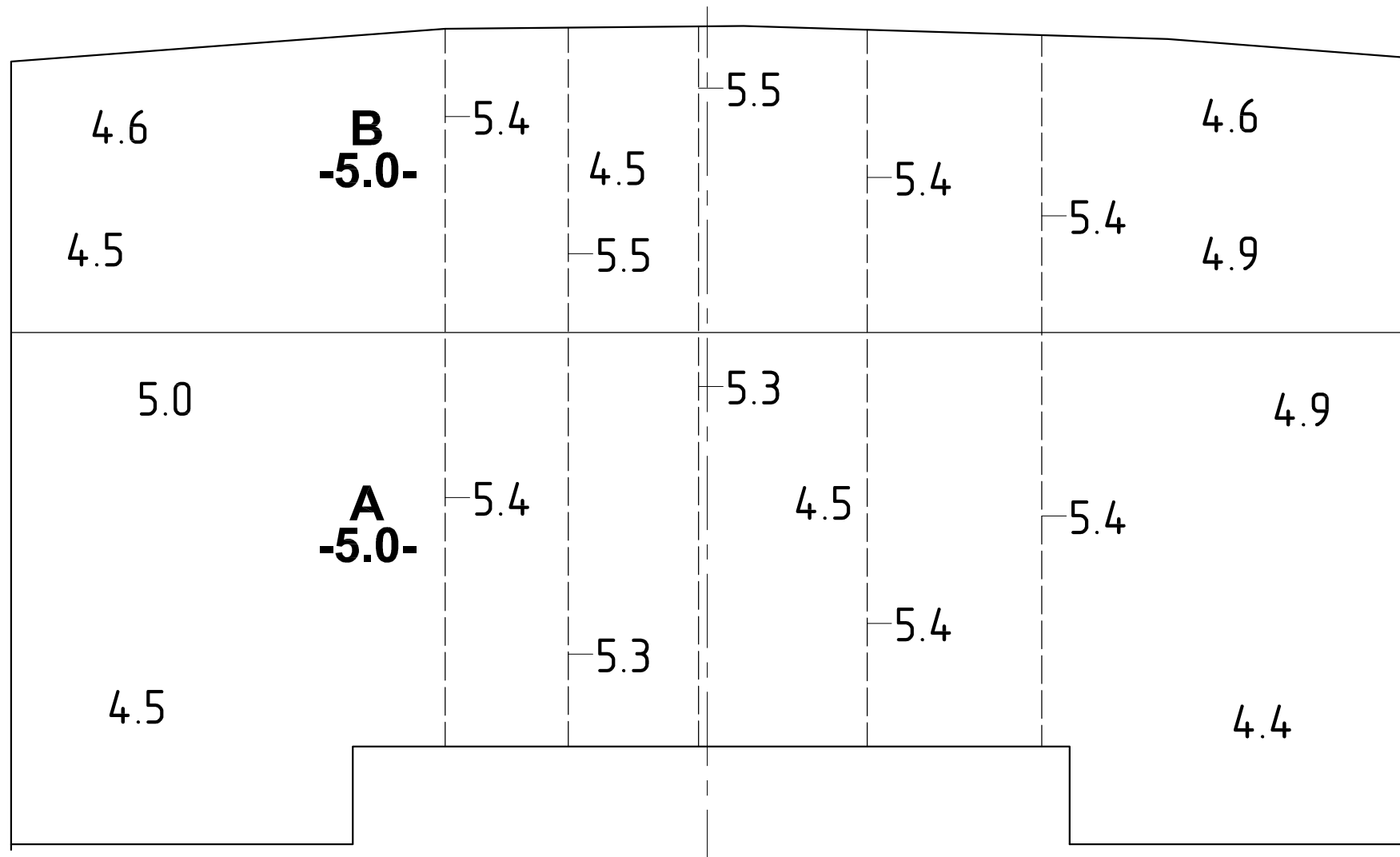


 - RECOMMEND TO RENEW
FLOAT SPACE

P.S

℄

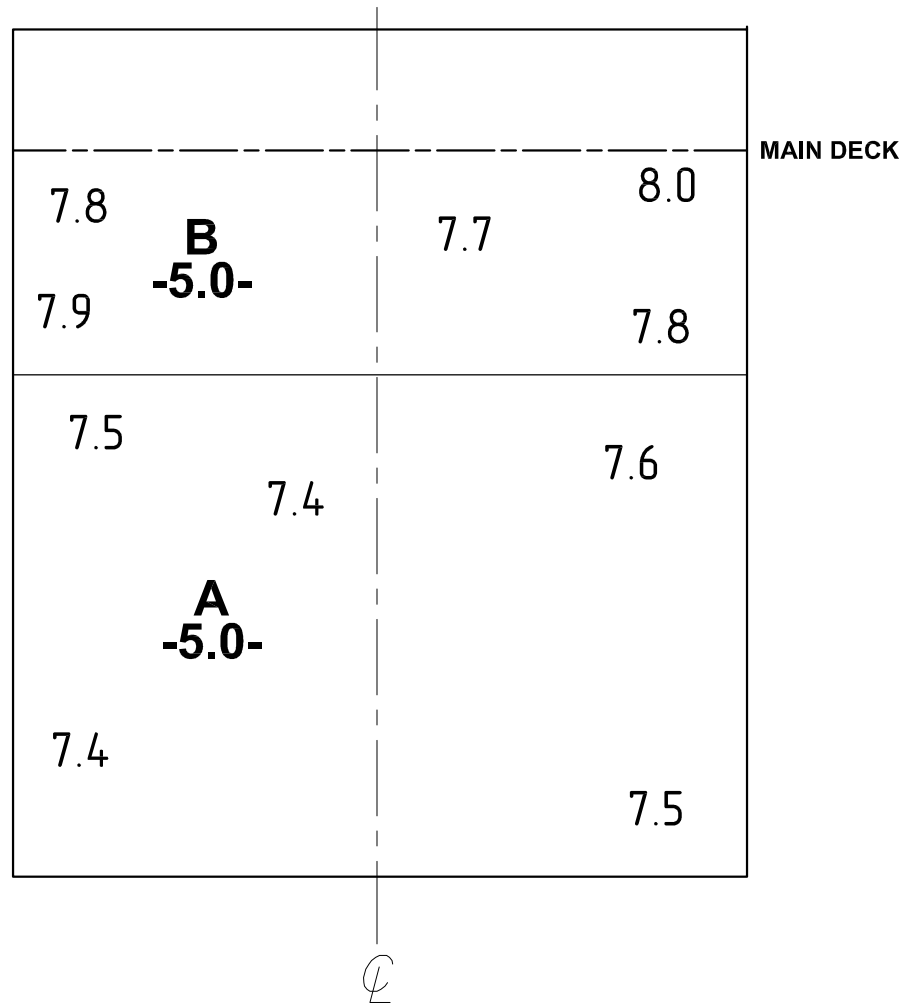
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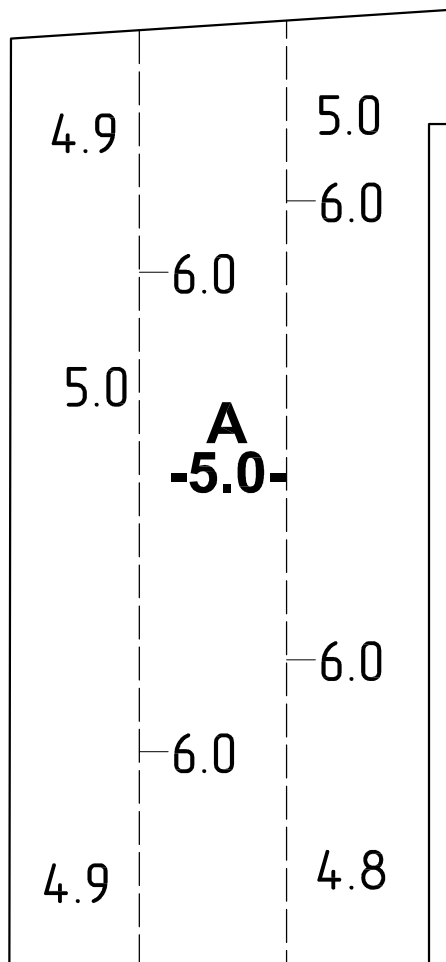
STIFENNERS HP S=5.5

P.S

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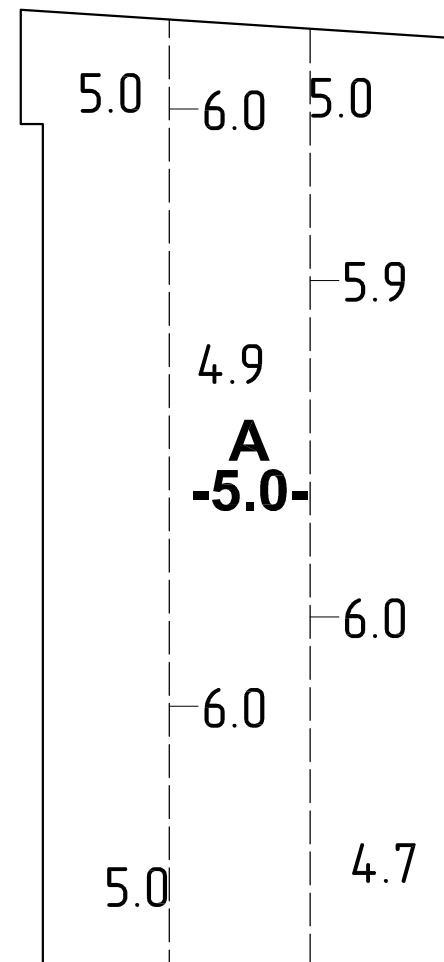


P.S



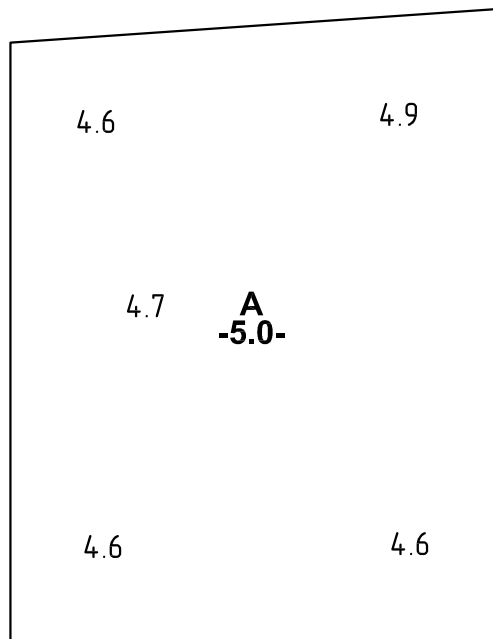
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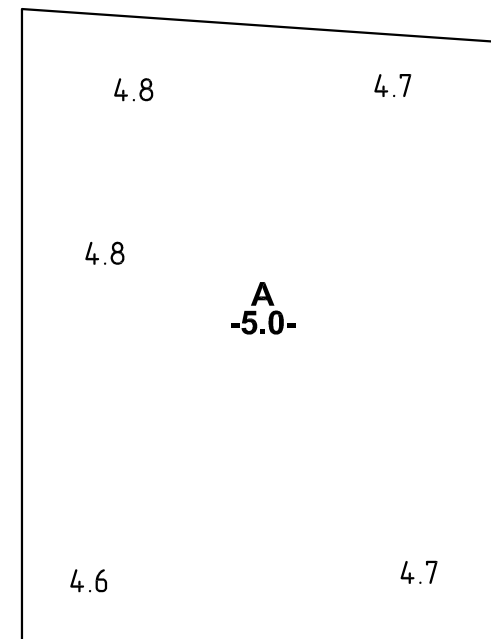
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P.S



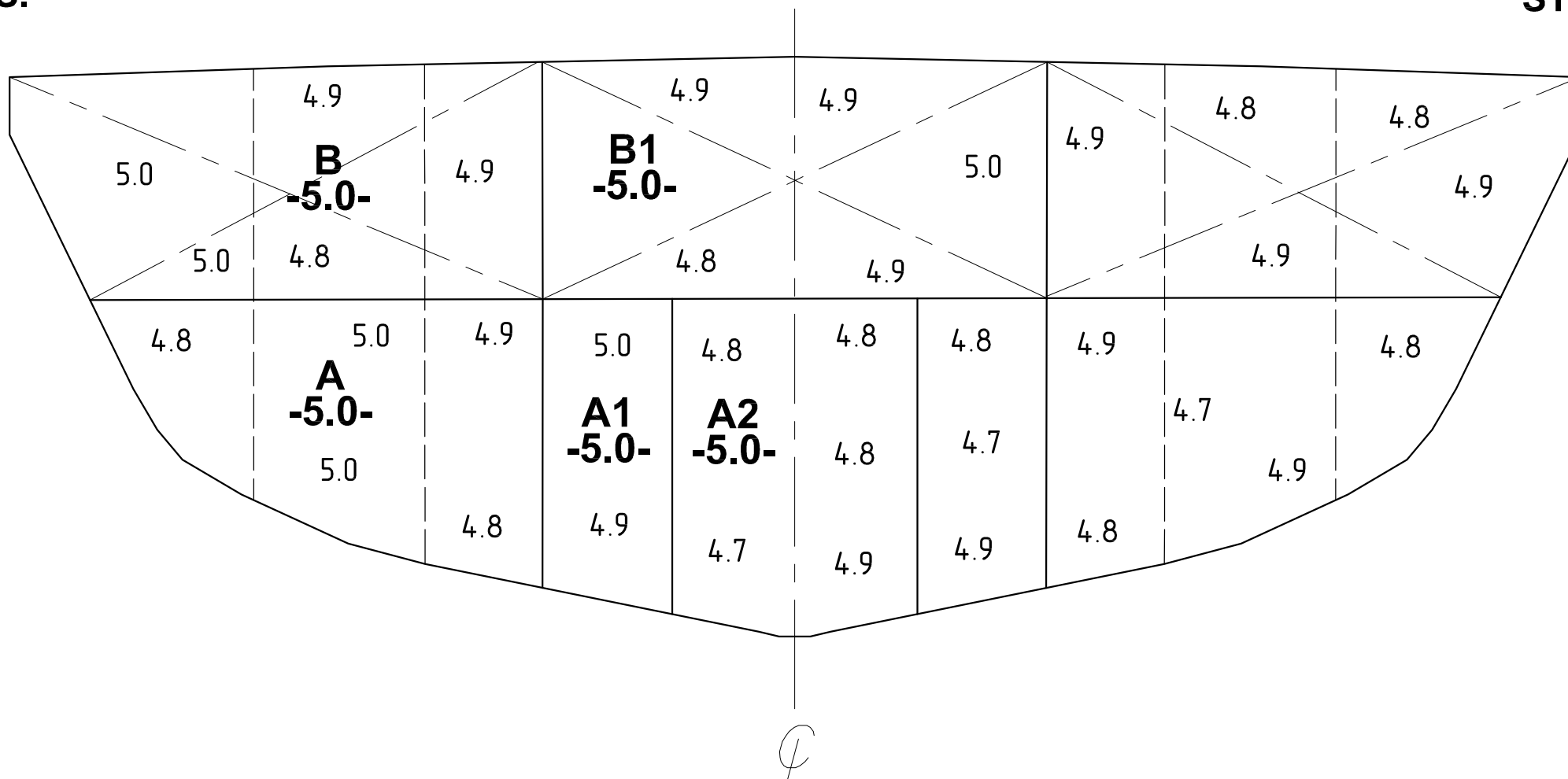
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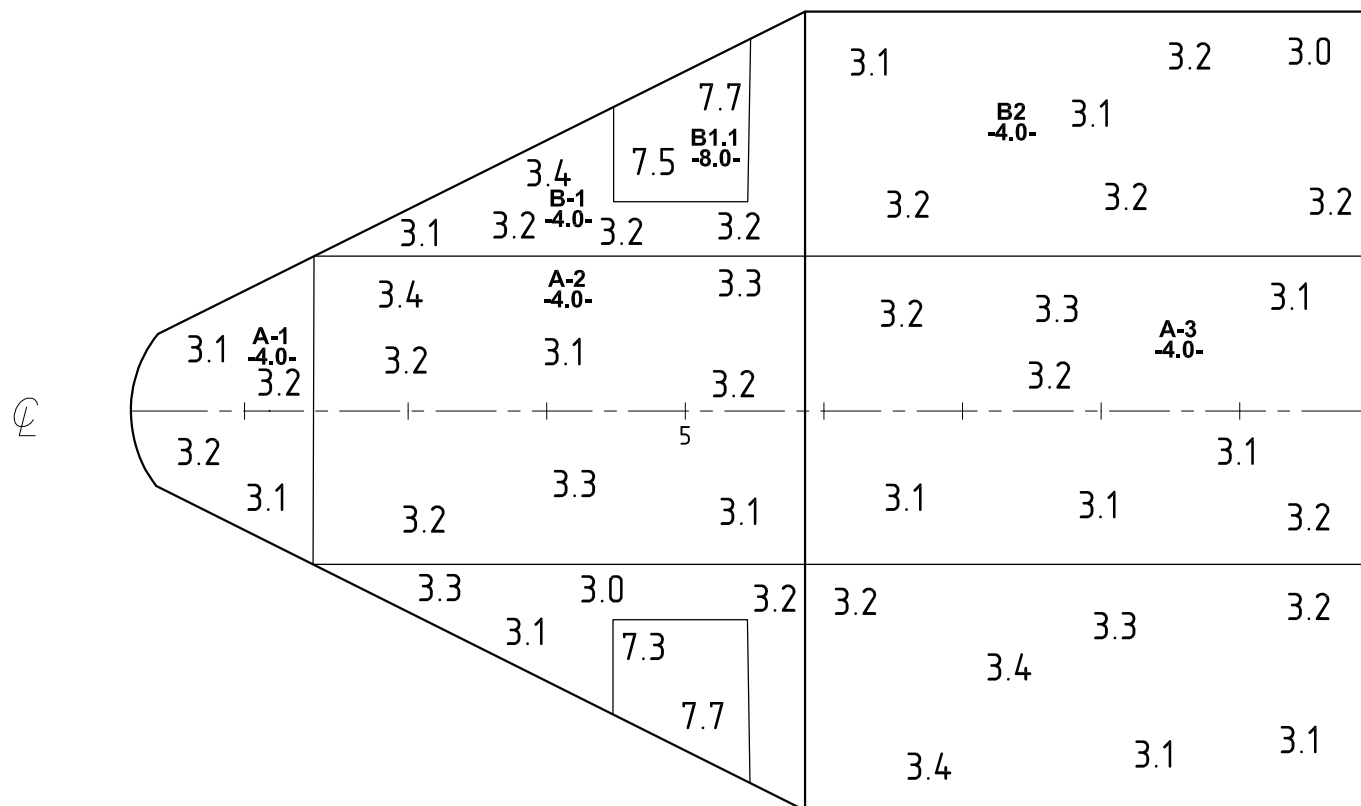
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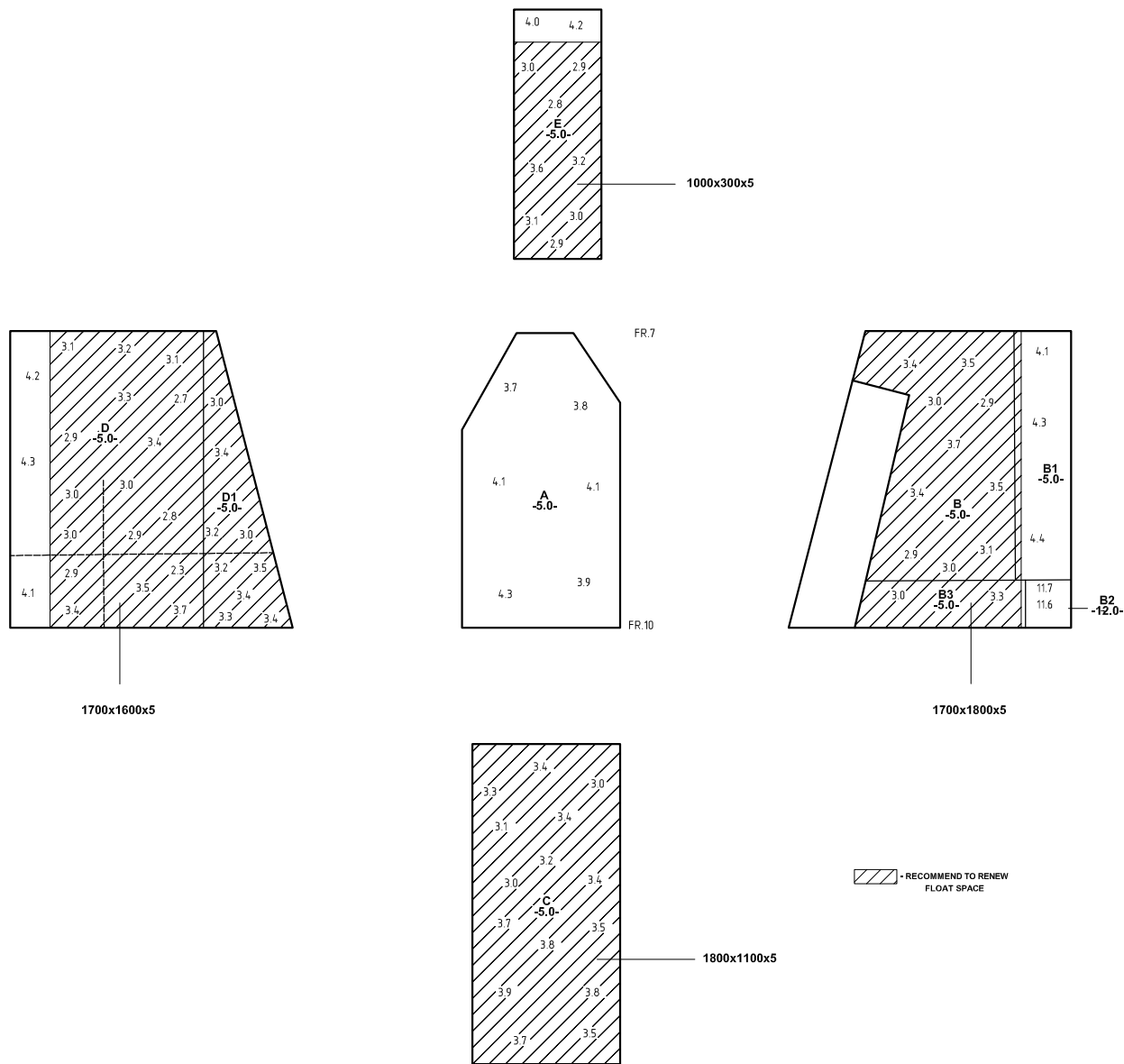


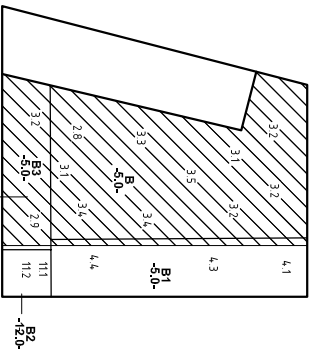
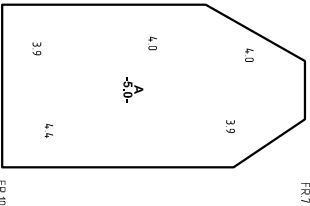
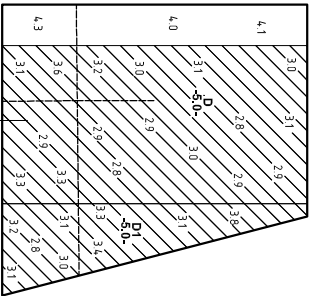
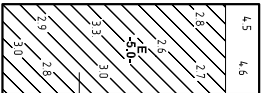
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STB.S

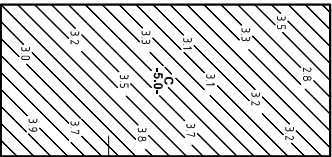


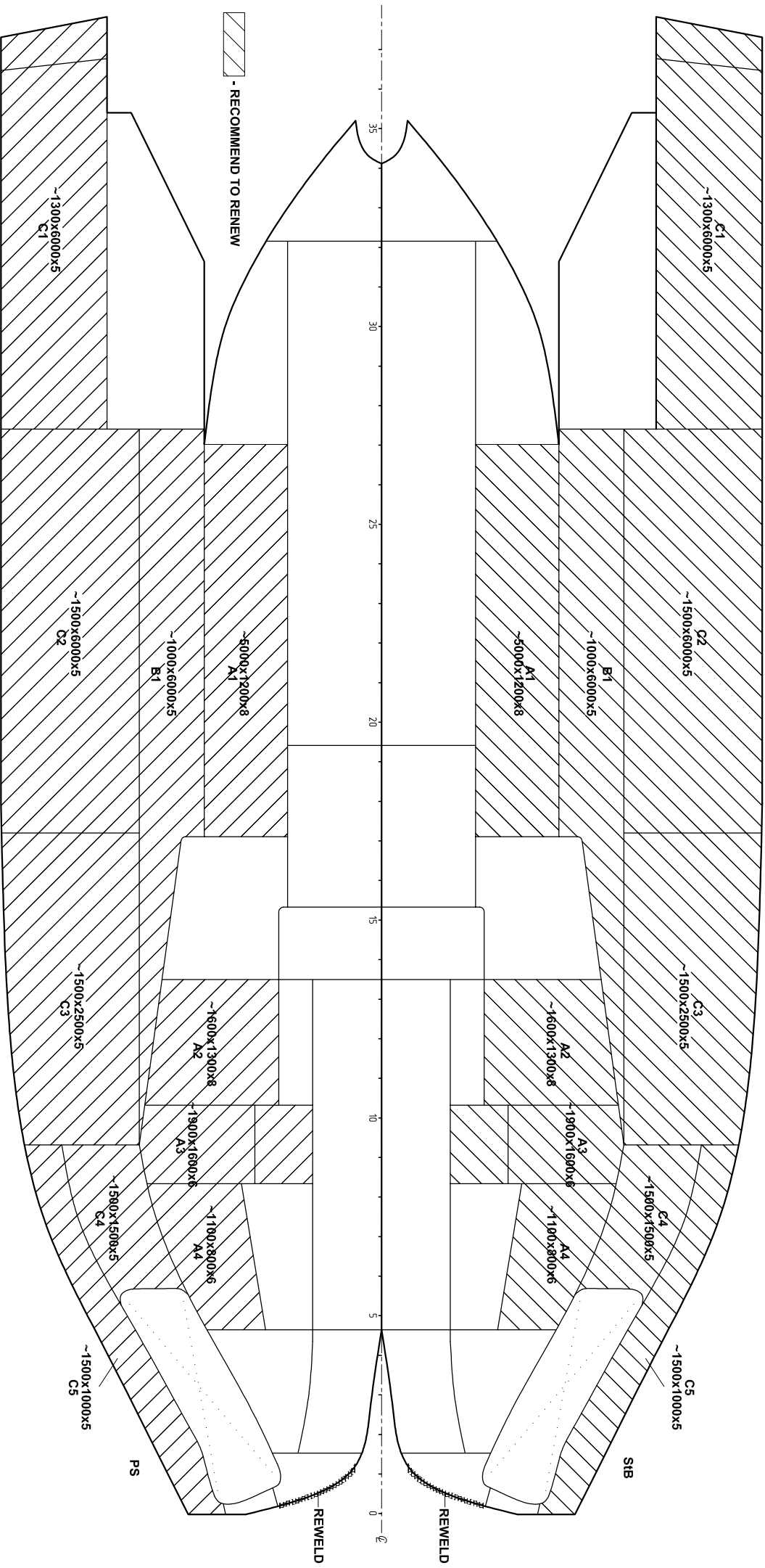




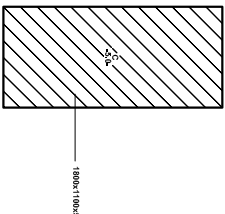
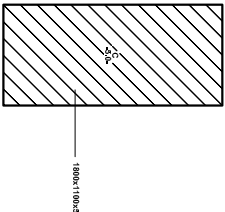
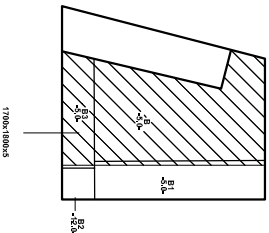
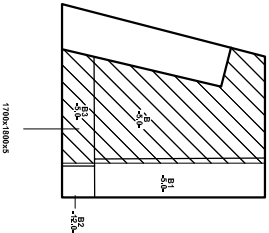
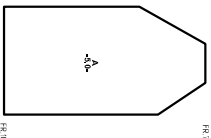
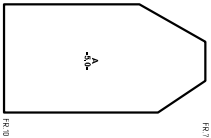
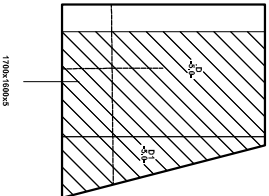
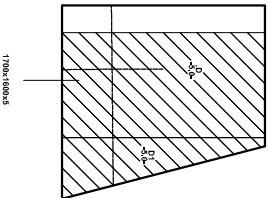
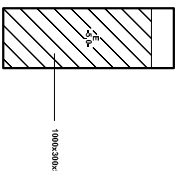
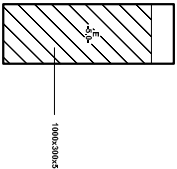


RECOMMEND TO RENEW
FLOAT SPACE





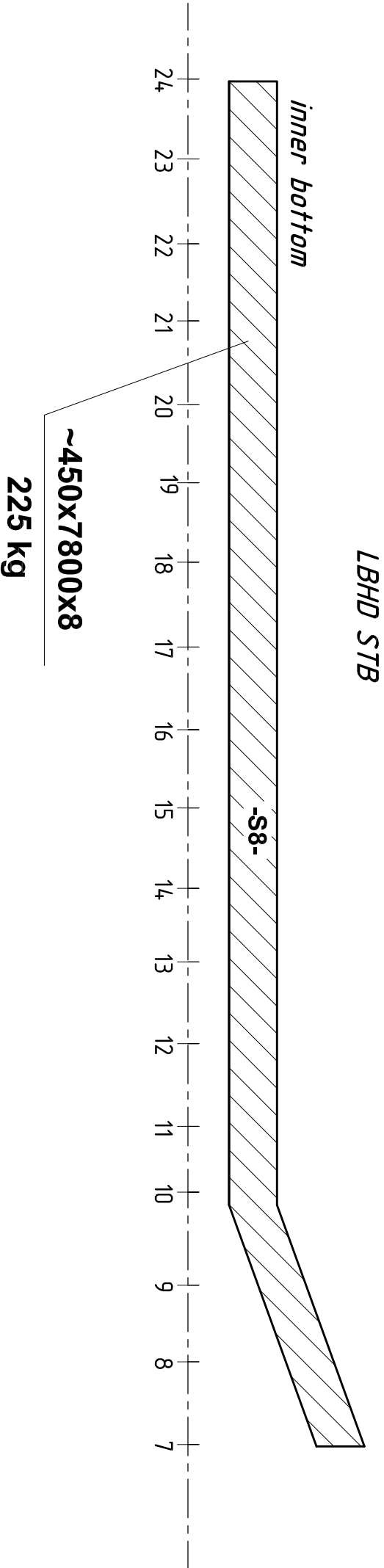
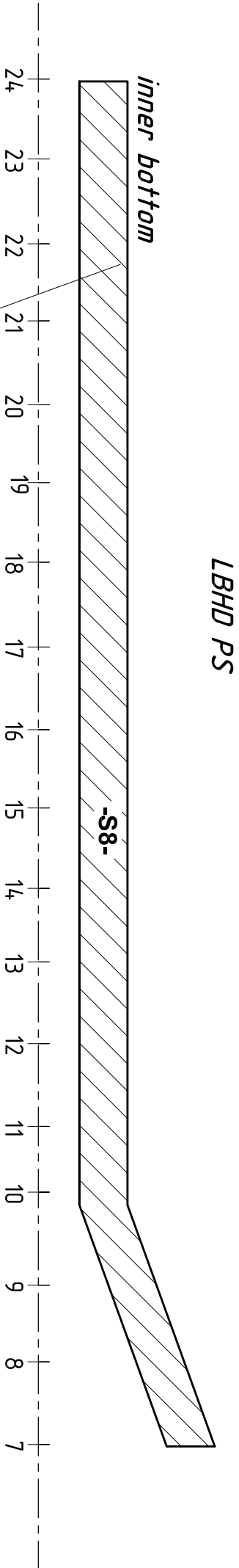
HR HAZARDOUS REGISTRATION		Operator	FLOAT SPACE		Vessel	Sketch
		S. Timonovs			Reg No.	R3



RECOMMENDED TO DRAW
FLOAT SPACE

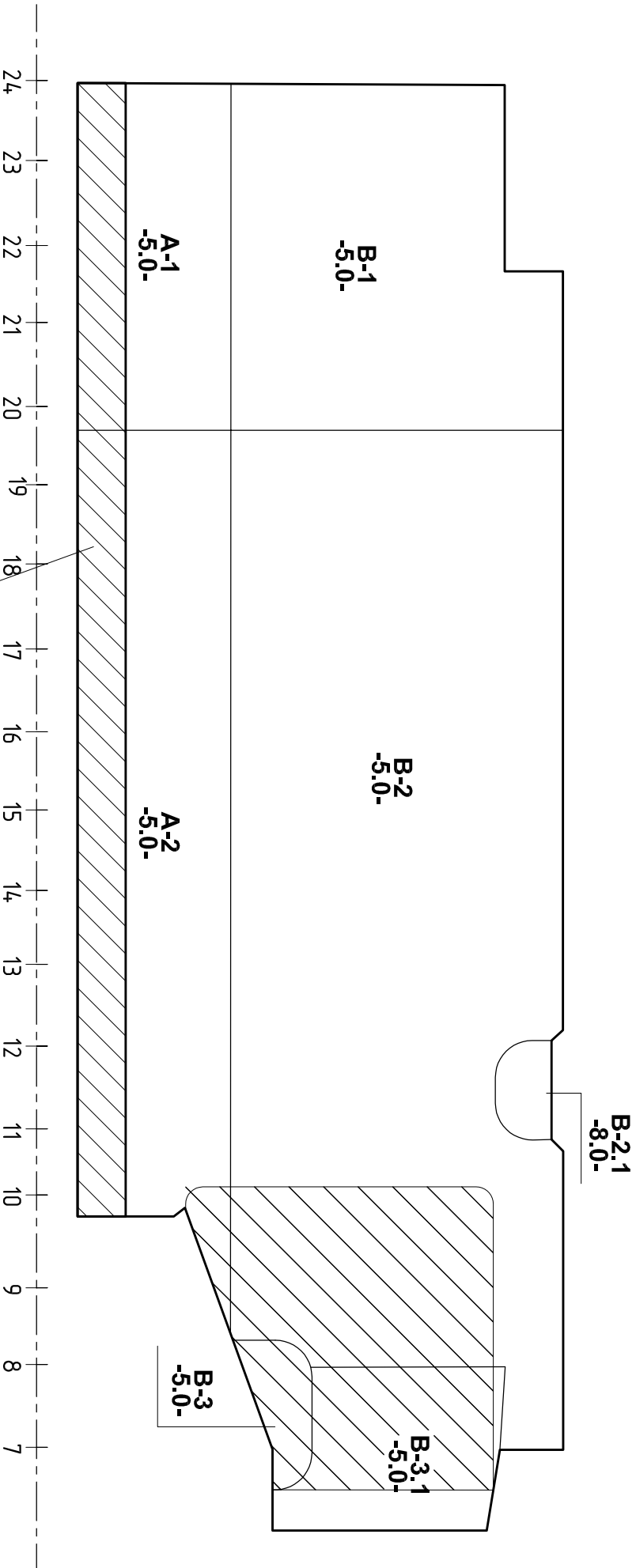
RECOMMENDED TO DRAW
FLOAT SPACE

HR HAZARDOUS REPORT	Operator	LBHD			Vessel	RINDA		Sketch
	S. Timonovs				Reg.No.			R4





	Operator	LBHD STB	
	S. Timonovs		
	Vessel	RINDA	Sketch
	Reg.No.		R5



~450x6300x5

115 kg

	Operator	LBHD PS			Vessel	RINDA	Sketch
	S. Timonovs				Reg.No.		R6

Pos. No.	Structural Element	Element / Frame No.	Side	Length	Breadth/ Height	Thickness/ Profile	Area	Quantity	Weight	Grade of steel	Sketch No.
				mm	mm	mm	m²	pcs	kg		
SIDE SHELL											
1	Plate A1		STB	5000	1200	8,0	6,0	1	376,8	A	R1
2	Plate A2		STB	1600	1300	8,0	2,1	1	130,6	A	R1
3	Plate A3		STB	1900	1600	6,0	3,0	1	143,2	A	R1
4	Plate A4		STB	1100	800	6,0	0,9	1	41,4	A	R1
5	Plate B1		STB	1000	6000	5,0	6,0	1	235,5	A	R1
6	Plate C1		STB	1300	6000	5,0	7,8	1	306,2	A	R1
7	Plate C2		STB	1500	6000	5,0	9,0	1	353,3	A	R1
8	Plate C3		STB	1500	2500	5,0	3,8	1	147,2	A	R1
9	Plate C4		STB	1500	1500	5,0	2,3	1	88,3	A	R1
10	Plate C5		STB	1500	1000	5,0	1,5	1	58,9	A	R1
11	Plate A1		PS	5000	1200	8,0	6,0	1	376,8	A	R1
12	Plate A2		PS	1600	1300	8,0	2,1	1	130,6	A	R1
13	Plate A3		PS	1900	1600	6,0	3,0	1	143,2	A	R1
14	Plate A4		PS	1100	800	6,0	0,9	1	41,4	A	R1
15	Plate B1		PS	1000	6000	5,0	6,0	1	235,5	A	R1
16	Plate C1		PS	1300	6000	5,0	7,8	1	306,2	A	R1
17	Plate C2		PS	1500	6000	5,0	9,0	1	353,3	A	R1
18	Plate C3		PS	1500	2500	5,0	3,8	1	147,2	A	R1
19	Plate C4		PS	1500	1500	5,0	2,3	1	88,3	A	R1
20	Plate C5		PS	1500	1000	5,0	1,5	1	58,9	A	R1
MAIN DECK											
21	Plate B2,B3,B4,B5		PS	11000	300	6,0	3,3	1	155,4	A	R2
22	Plate A2			1000	500	5,0	0,5	1	19,6	A	R2
23	Plate A1			2000	500	7,0	1,0	1	55,0	A	R2
FLOAT SPACE											
24	Plate D,D1		PS	1700	1600	5,0	2,7	1	106,8	A	R3
25	Plate E		PS	1000	300	5,0	0,3	1	11,8	A	R3
26	Plate B,B3		PS	1700	1800	5,0	3,1	1	120,1	A	R3
27	Plate C		PS	1800	1100	5,0	2,0	1	77,7	A	R3
28	Plate D,D1		STB	1700	1600	5,0	2,7	1	106,8	A	R3
29	Plate E		STB	1000	300	5,0	0,3	1	11,8	A	R3
30	Plate B,B3		STB	1700	1800	5,0	3,1	1	120,1	A	R3
31	Plate C		STB	1800	1100	5,0	2,0	1	77,7	A	R3
LBHD'S											
32	Plate		PS	500	7800	8,0	3,9	1	244,9	A	R4
33	Plate		STB	500	7800	8,0	3,9	1	244,9	A	R4
34	Plate		STB	500	6300	5,0	3,2	1	123,6	A	R5
35	Plate		PS	500	6300	5,0	3,2	1	123,6	A	R6
TOTAL							120		5362		