

R.Prala

A handwritten signature in black ink, consisting of a large, sweeping loop followed by a smaller, more intricate flourish.

Naval architect "HARBOUR RIGA "

REPORT № HR-34-14
on thickness measurements
hull structures "HERCOGS JEKABS "

Consisting of 18 sheets

Flag

Latvia

LATVIJAS JŪRAS ADMINISTRĀCIJA

Port of registry

VENTSPILS

SURVEYOR

RIGA , LATVIA

2014



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.*

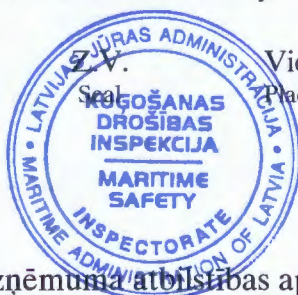
Uzņēmuma atbilstības apliecība ir derīga ar nosacījumu, ka tā tiek apstiprināta katru gadu.

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

System of Voluntary Certification of Personnel on Nondestructive Testing



Russian Society of NDT & TD

The «PROMETEI» center certification

Certificate of conformity № 36, expiry date 10.07.2019

Russian maritime register of shipping № 13.01225

expiry date 08.04.2018



expiry date 08.04.2018

CERTIFICATE № 5252-2018

First name

ROMANAS

Surname

PRAIA

Year of birth

1977

Head of the centre of attestation:

Deputy director G.I. Nikolayev

Signature

Owner of certificate

Signature



CERTIFICATE № 5252- 2014 CERTIFIES

a level of qualification, method, manufacturing sector in accordance with ISO 9712

Expiry date:

Level	UTM	
	month	year
1		
Sector		
2	10	2017
Sector		
3	3	
Sector		

Manufacturing sector: 1 – machine building and metal production; 2 – aviation; 3 – power generation; 4 – electronics and electronics technology; 5 – fine line transport; 6 – railway transport; 7 – shipbuilding, ship repair.

Address of the «Prometey» CC: 191167 S.L. P. Zvezdnyy, 32

Telephone: (812) 274-62-09

Fax: (812) 274-16-29





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.G0740K14

CALIBRATION CERTIFICATE

Kalibrēšanas uzlīmes numurs 297358

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.

Biezummērītājs, ultraskaņas

*16855-*015KJJ**

Mērdiapažons

Measuring range

(1,2 – 200,0) mm

Ražotājs

Manufacturer

"GE Inspection Technologies" ASV

Pasūtītājs

Customer

SIA "HARBOUR RIGA"

Gāles iela 2, Rīga

Kalibrēšanas metode un nosacījumi

Calibration method and environmental conditions

LNMC G 167:2010

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

Kalibrēšanas datums

Date of calibration

201 4.gada "28." marts

Rezultāti

Results

Skatīt otrajā lapā

Izsekojamība

Traceability

LNMC darba etalons – biezuma mēru etalonkomplekts Nr. 27

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



Laboratorijas vadītājs

Head of Laboratory

[Signature]
(paraksts un tā atšifrējums t.67362086)
(signature and name)

D.Burmistre

Izpildītājs

Operator

[Signature]
(paraksts un tā atšifrējums)
(signature and name)

D.Burmistre

Izdošanas datums

Date of issue

201 4.gada "31." marts

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: *DA 451 pārveidotājs Nr. 59167-1043; 5MHz; Krautkramer*
In calibration used

Mērīšanas režīms : „CAL” $C=6070$ 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	2,30	0,28	0,079	2,87
3,02	6078	3,33	0,31	0,037	2,87
5,01	6076	5,17	0,15	0,117	2,87
10,02	6073	10,09	0,07	0,086	2,87
20,04	6070	20,18	0,15	0,126	2,87
50,12	6064	50,15	0,08	0,132	2,87
75,23	6061	75,28	0,16	0,126	2,85
100,32	6061	100,30	0,14	0,095	2,28

Mērījumu nenoteiktība U aprēķināta pie varbūtības 95,45%.

Nenoteiktība aprēķināta saskaņā ar LATAK EA – 4/02 rekomendācijām.

Uncertainty has been calculated according to LATAK EA – 4/02 recommendation.

Izpildītājs
Operator

(paraksts un tā atšifrējums)
(signature and name)

D.Burmistre

THICKNESS MEASUREMENT REPORT

GENERAL PARTICULARS

Ship's name:	<i>HERCOGS JĒKABS</i>	
IMO number:		
Class identity number:	<i>1544</i>	
Port of registry:	<i>VENTSPILS</i>	
Gross tons:		
Deadweight:		
Date of build:	<i>1995</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>RIGA</i>	
First date of measurement:	<i>13.11.2014</i>	
Last date of measurement:	<i>13.11.2014</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-34-14</i>	Consisting of 18 Sheets.
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Name of operators:	<i>R.Prala</i>	Name of surveyor:	
Signature of operators:		Signature of surveyor:	
Firm official stamp:			
	Classification Society Official Stamp:		



Ship's name: HERCOGS JEKAI
REG. No.: 1544
Report No.: HR-34-14

[illegible]

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

Form 1.2

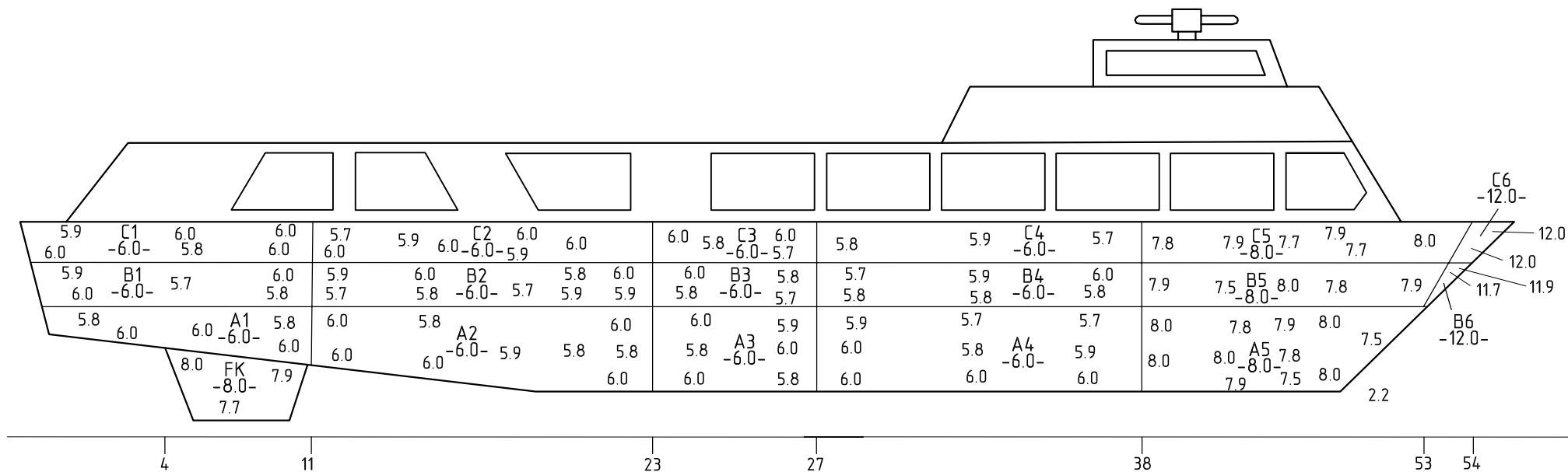
Ship's name HERCOGS JĒKABS

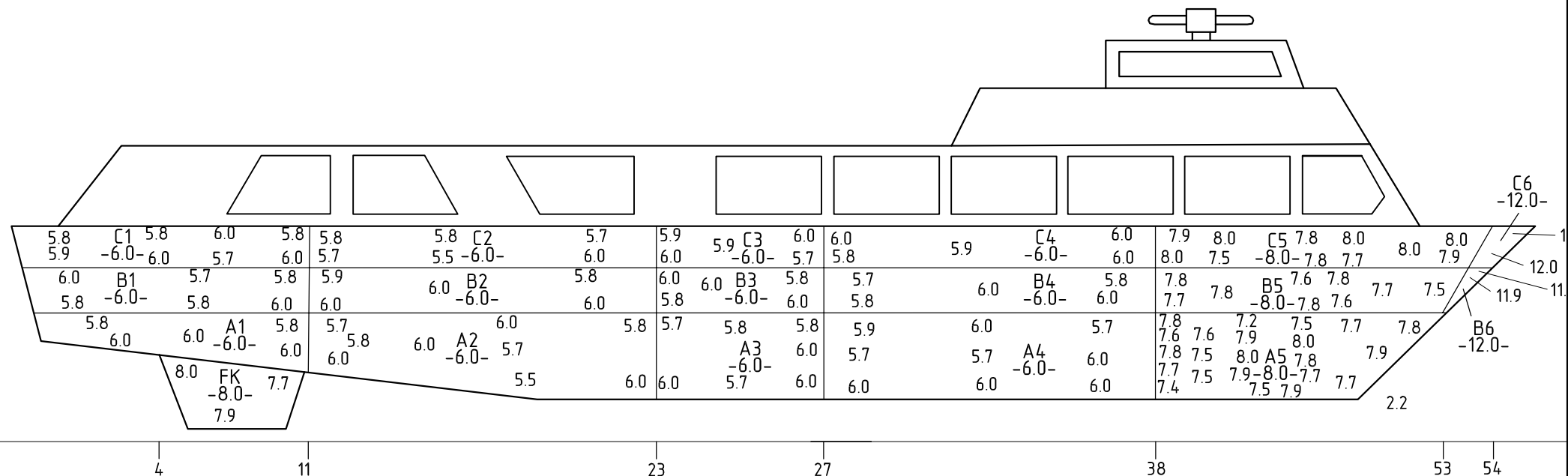
Reg. No

1544

Report № HR-34-14

1	Structure : Main deck 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
																								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	0	11	5.0	3.5	30.0	5.0	4.8	5.0	5.1												5.0	0.0	0.5	
Plate	StB	A	A1	0	11	5.0	3.5	30.0	5.0	4.8	5.0	5.0												5.0	0.0	1.0	
Plate	PS	A	A2	11	23	5.0	3.5	30.0	5.0	5.0	5.1													5.0	0.0	-0.7	
Plate	StB	A	A2	11	23	5.0	3.5	30.0	4.8	5.0														4.9	0.1	2.0	
Plate	PS	A	A3	23	27	5.0	3.5	30.0	5.0	5.0														5.0	0.0	0.0	
Plate	StB	A	A3	23	27	5.0	3.5	30.0	5.0	4.9														5.0	0.0	1.0	
Plate	PS	A	A4	27	38	5.0	3.5	30.0	4.9	5.0	4.8													4.9	0.1	2.0	
Plate	StB	A	A4	27	38	5.0	3.5	30.0	5.0	5.0														5.0	0.0	0.0	
Plate	PS	A	A5	38	49	5.0	3.5	30.0	5.0	5.0	4.9	5.0												5.0	0.0	0.5	
Plate	StB	A	A5	38	49	5.0	3.5	30.0	5.0	4.9	5.0	5.0												5.0	0.0	0.5	
Plate	PS	A	A6	49	53	5.0	3.5	30.0	5.0	4.8														4.9	0.1	2.0	
Plate	StB	A	A6	49	53	5.0	3.5	30.0	5.0	4.9														5.0	0.0	1.0	
Plate	PS	A	A7	53	56	5.0	3.5	30.0	5.0	5.0														5.0	0.0	0.0	
Plate	StB	A	A7	53	56	5.0	3.5	30.0	4.9	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 HERCOGS JĒKABS

Reg. No

1544

Report № HR-34-14

1	Structure : Shell plating																									
Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness S ₀ , MM	Allowable residual th-s, MM	Max. allow.deminution %	Remaining thickness gauged S _i , MM														Average values			Notes
																							Residual thickness S ₁ ,	Deminution		
																								absolut e	relative	
									MM	MM	%															
2	3	4	5	6	7	8	9	10	11														12	13	14	15
Plate	PS	A	FK	4	11	8.0	5.6	30.0	8.0	7.7	7.9											7.9	0.1	1.7		
Plate	StB	A	FK	4	11	8.0	5.6	30.0	8.0	7.7	7.9											7.9	0.1	1.7		
Plate	PS	A	A1	0	11	6.0	4.2	30.0	5.8	6.0	6.0	5.8	6.0									5.9	0.1	1.3		
Plate	StB	A	A1	0	11	6.0	4.2	30.0	5.8	6.0	6.0	5.8	6.0									5.9	0.1	1.3		
Plate	PS	A	A2	11	23	6.0	4.2	30.0	5.7	5.8	6.0	6.0	6.0	5.5	5.8	6.0						5.9	0.2	2.5		
Plate	StB	A	A2	11	23	6.0	4.2	30.0	6.0	6.0	6.0	5.8	5.9	5.8	6.0	5.8	6.0					5.9	0.1	1.3		
Plate	PS	A	A3	23	27	6.0	4.2	30.0	5.7	6.0	5.8	5.7	5.8	6.0	6.0							5.9	0.1	2.4		
Plate	StB	A	A3	23	27	6.0	4.2	30.0	6.0	5.8	6.0	5.9	6.0	5.8								5.9	0.1	1.4		
Plate	PS	A	A4	27	38	6.0	4.2	30.0	5.9	5.7	6.0	6.0	5.7	6.0	5.7	6.0	6.0					5.9	0.1	1.9		
Plate	StB	A	A4	27	38	6.0	4.2	30.0	5.9	6.0	6.0	5.7	5.8	6.0	5.7	5.9	6.0					5.9	0.1	1.9		
Plate	PS	A	A5	38	53	8.0	5.6	30.0	7.8	7.6	7.7	7.4	7.2	7.9	7.5	7.9	7.7	7.9	7.7	7.8		7.7	0.3	4.1		
Plate	StB	A	A5	38	53	8.0	5.6	30.0	8.0	8.0	7.8	8.0	7.9	7.9	7.5	8.0	8.0	7.5				7.9	0.1	1.8		
Plate	PS	B	B1	0	11	6.0	4.2	30.0	6.0	5.8	5.7	5.8	5.8	6.0								5.9	0.1	2.5		
Plate	StB	B	B1	0	11	6.0	4.2	30.0	5.9	6.0	5.7	6.0	5.8									5.9	0.1	2.0		
Plate	PS	B	B2	11	23	6.0	4.2	30.0	5.9	6.0	6.0	5.8	6.0									5.9	0.1	1.0		
Plate	StB	B	B2	11	23	6.0	4.2	30.0	5.9	5.7	6.0	5.8	5.7	5.8	5.9	6.0	5.9					5.9	0.2	2.5		
Plate	PS	B	B3	23	27	6.0	4.2	30.0	6.0	5.8	6.0	5.8	6.0									5.9	0.1	1.3		
Plate	StB	B	B3	23	27	6.0	4.2	30.0	6.0	5.8	5.8	5.7										5.8	0.2	2.9		
Plate	PS	B	B4	27	38	6.0	4.2	30.0	5.7	5.8	6.0	6.0	5.8									5.9	0.1	2.3		
Plate	StB	B	B4	27	38	6.0	4.2	30.0	5.7	5.8	5.9	5.8	6.0	5.8								5.8	0.2	2.8		
Plate	PS	B	B5	38	53	8.0	5.6	30.0	7.8	7.7	7.8	7.6	7.8	7.8	7.6	7.7	7.5					7.7	0.3	3.8		
Plate	StB	B	B5	38	53	8.0	5.6	30.0	7.9	7.5	8.0	7.8	7.9									7.8	0.2	2.3		
Operator's signature :																							Legend:	Below class min		



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

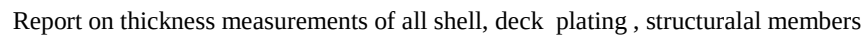
Ship's name HERCOGS JĒKABS

Reg. No

1544

Report № HR-34-14

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			
									Residial thickness S1, mm	Deminution																	
										absolute	relative																
2	3	4	5	6	7	8	9	10	11												12	13	14	15			
Plate	PS	B	B6	53	54	12.0	8.4	30.0	11.9	11.9														11.9	0.1	0.8	
Plate	StB	B	B6	53	54	12.0	8.4	30.0	11.7	11.9														11.8	0.2	1.7	
Plate	PS	C	C1	0	11	6.0	4.2	30.0	5.8	5.9	5.8	6.0	6.0	5.7	5.8	6.0								5.9	0.1	2.1	
Plate	StB	C	C1	0	11	6.0	4.2	30.0	6.0	5.9	6.0	5.8	6.0	6.0										6.0	0.0	0.8	
Plate	PS	C	C2	11	23	6.0	4.2	30.0	5.8	5.7	5.8	5.5	5.7	6.0										5.8	0.3	4.2	
Plate	StB	C	C2	11	23	6.0	4.2	30.0	6.0	5.7	5.9	6.0	5.9	6.0	6.0									5.9	0.1	1.2	
Plate	PS	C	C3	23	27	6.0	4.2	30.0	5.9	6.0	5.9	6.0	5.7											5.9	0.1	1.7	
Plate	StB	C	C3	23	27	6.0	4.2	30.0	6.0	5.8	6.0	5.7												5.9	0.1	2.1	
Plate	PS	C	C4	27	38	6.0	4.2	30.0	6.0	5.8	5.9	6.0	6.0											5.9	0.1	1.0	
Plate	StB	C	C4	27	38	6.0	4.2	30.0	5.8	5.9	5.7													5.8	0.2	3.3	
Plate	PS	C	C5	38	53	8.0	5.6	30.0	7.9	8.0	8.0	7.8	7.8	8.0	7.7	8.0	8.0	7.9						7.9	0.1	1.1	
Plate	StB	C	C5	38	53	8.0	5.6	30.0	7.8	7.9	7.7	7.7	7.9	8.0										7.8	0.2	2.1	
Plate	PS	C	C6	53	54	12.0	8.4	30.0	12.0	12.0														12.0	0.0	0.0	
Plate	StB	C	C6	53	54	12.0	8.4	30.0	12.0	12.0														12.0	0.0	0.0	
Operator's signature :																								Legend: Below class min Substantial corr			



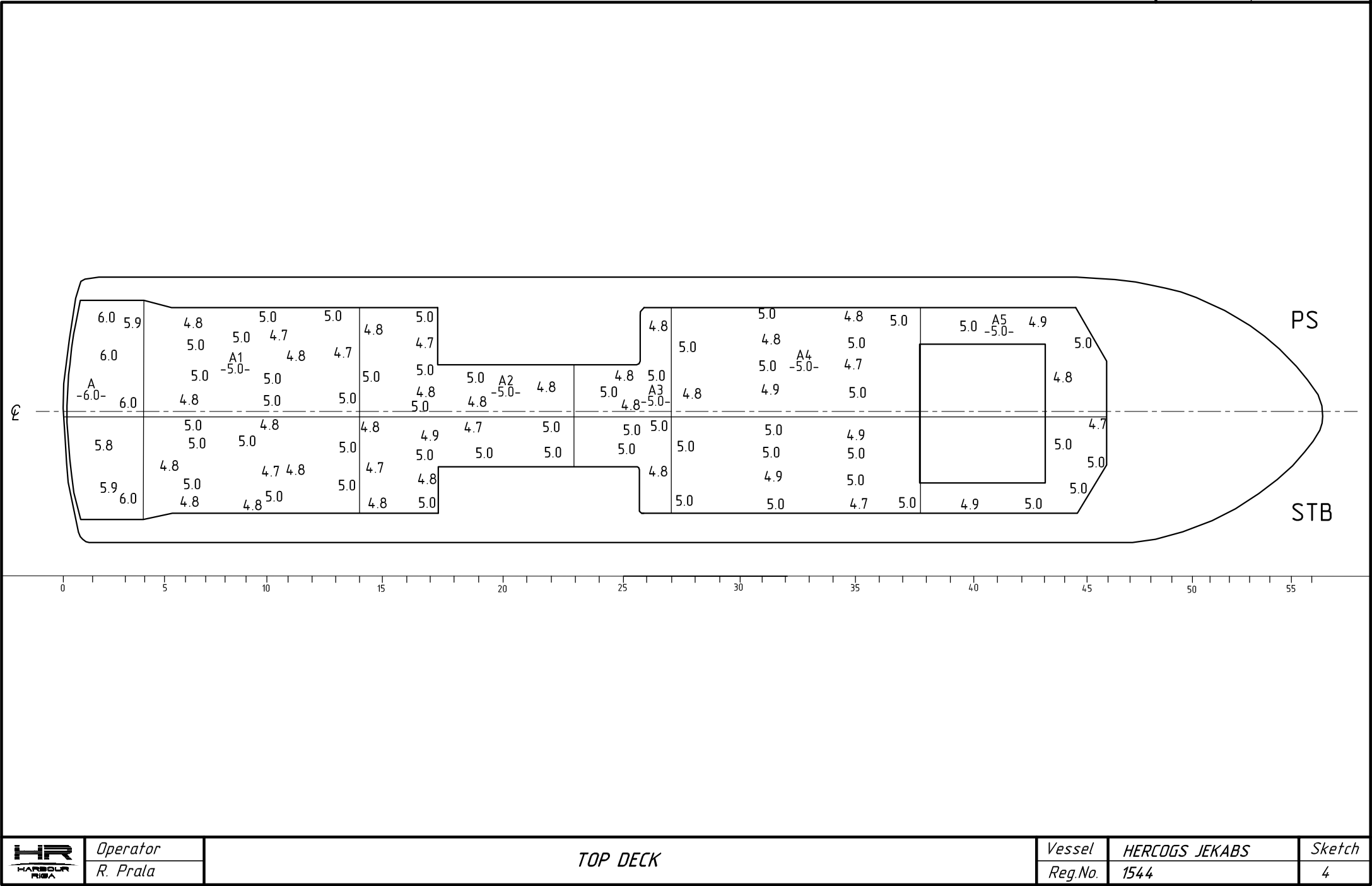
Ship's name HERCOGS JĒKABS

Reg. No

1544

Report № HR-34-14

Legend:	Below class min
	Substantial corr





Form 1.2

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

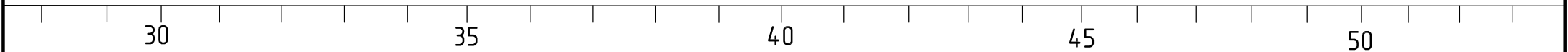
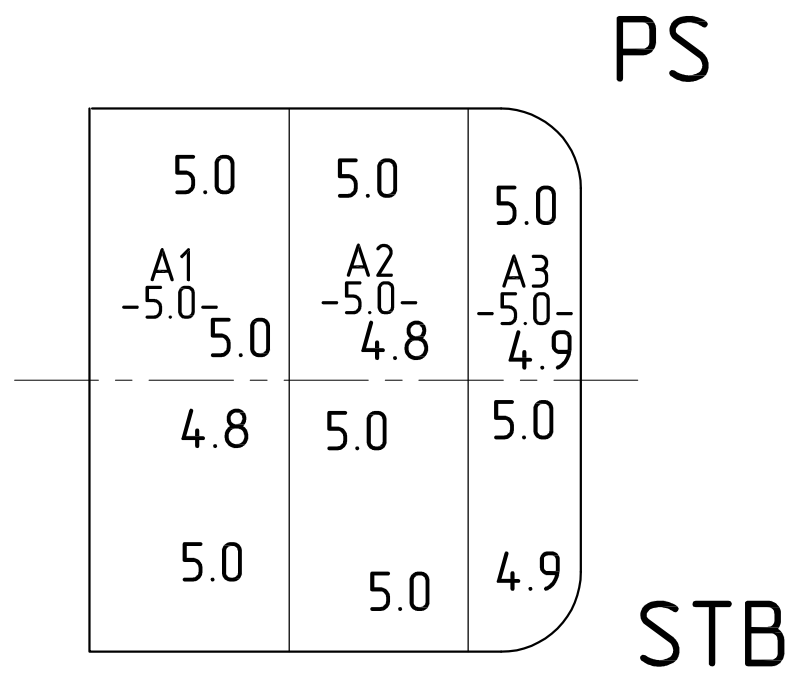
Ship's name HERCOGS JĒKABS

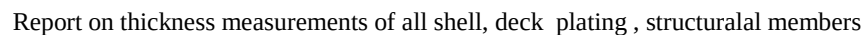
Reg. No

1544

Report № HR-34-14

1 Structure : Top deck 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 thicknes s S1,	Deminution																	
										absolut e	relative																
												MM	MM	%													
2	3	4	5	6	7	8	9	10	11														12	13	14	15	
Plate	PS	A	A	0	4	6.0	4.2	30.0	6.0	6.0	6.0													6.0	0.0	0.0	
Plate	StB	A	A	0	4	6.0	4.2	30.0	5.8	5.9	6.0													5.9	0.1	1.7	
Plate	PS	A	A1	4	23	5.0	3.5	30.0	4.8	5.0	5.0	4.8	5.0	4.7	5.0	5.0	4.7	5.0	5.0					4.9	0.1	1.8	
Plate	StB	A	A1	4	14	5.0	3.5	30.0	5.0	5.0	4.8	5.0	4.8	5.0	4.8	5.0	4.7	4.8					4.9	0.1	2.0		
Plate	PS	A	A2	14	23	5.0	3.5	30.0	5.0	4.8	5.0	4.7	4.8	5.0	5.0	4.8	4.8					4.9	0.1	2.4			
Plate	StB	A	A2	14	23	5.0	3.5	30.0	4.8	4.7	4.8	5.0	4.9	5.0	5.0	5.0					4.9	0.1	2.0				
Plate	PS	A	A3	23	27	5.0	3.5	30.0	4.8	4.8	5.0	5.0	4.8								4.9	0.1	2.4				
Plate	StB	A	A3	23	27	5.0	3.5	30.0	5.0	5.0	5.0	4.8									5.0	0.0	1.0				
Plate	PS	A	A4	27	38	5.0	3.5	30.0	5.0	4.8	5.0	4.8	5.0	4.9	4.8	5.0	4.7	5.0	5.0		4.9	0.1	1.8				
Plate	StB	A	A4	27	38	5.0	3.5	30.0	5.0	5.0	5.0	5.0	4.9	5.0	4.9	5.0	5.0	4.7			5.0	0.0	1.0				
Plate	PS	A	A5	38	46	5.0	3.5	30.0	5.0	4.9	5.0	4.8									4.9	0.1	1.5				
Plate	StB	A	A5	38	46	5.0	3.5	30.0	4.9	5.0	5.0	5.0	5.0	4.7							4.9	0.1	1.3				
Operator's signature :																							Legend: Below class min				
																							Substantial corr				





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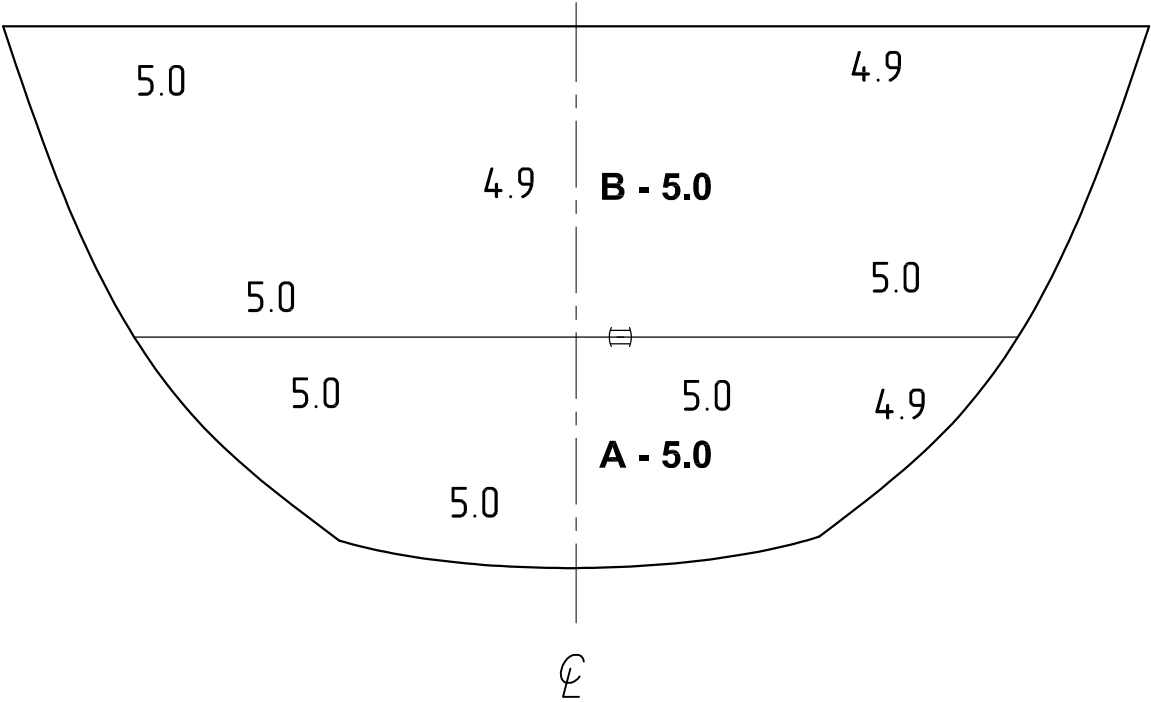
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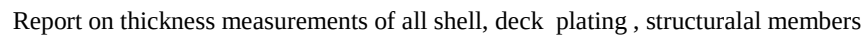
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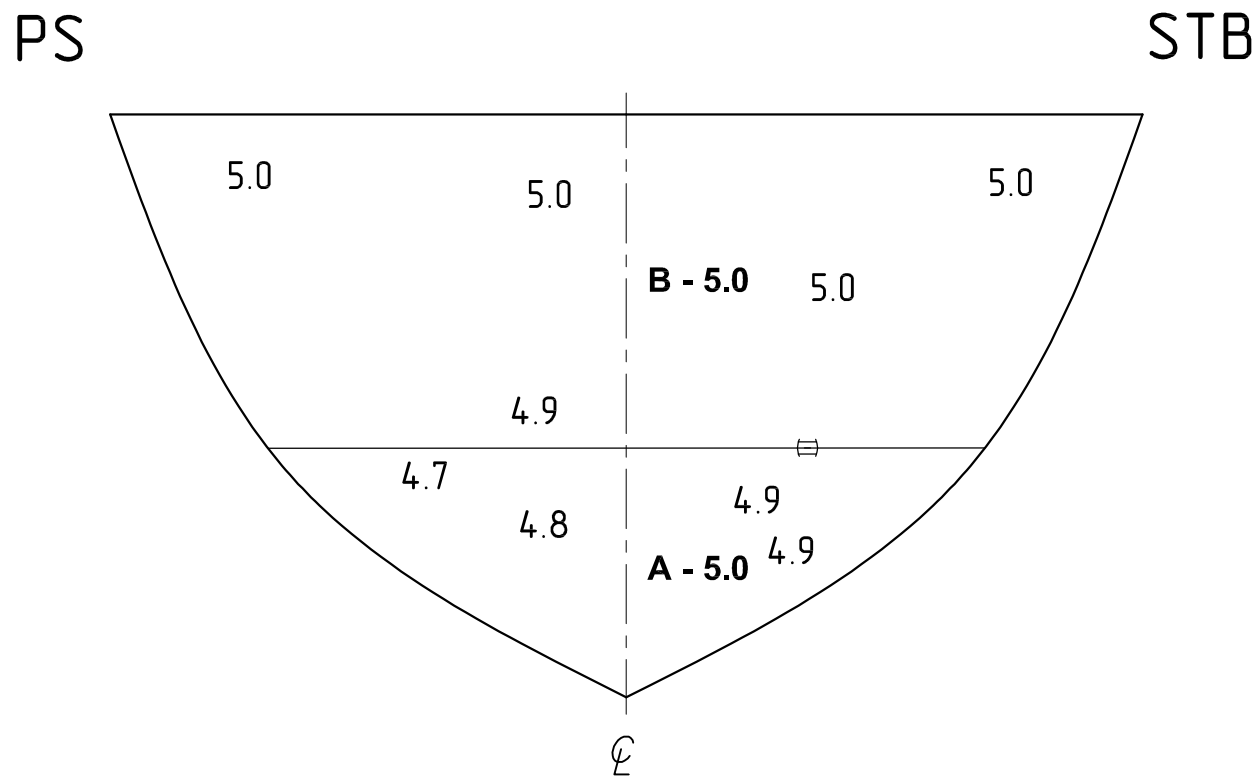
Ship's name HERCOGS JĒKABS

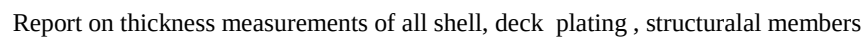
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