



Thickness Measurement Report

for

Alva

Revision	
Author	TOMRA
Date	6/27/2022
Notes	Color codes used in this document: <ul style="list-style-type: none">• (RED) = Subject to Renewal• (YELLOW) = Suspect• (ORANGE) = Data to be checked - could be incomplete or inconsistent



Alva

Print-out date:
6/27/2022

Thickness Measurement Report - Survey General Data

Field	Symbol	Unit	Value	Remarks
Ship Identification				
Ship Name			Alva	
RI Number			90377	
Ship Builder			J.J. SIETAS GmbH and Co. Hamburg	
IMO Number			6808090	
Ship Flag			St. Vincent and the Grenadines	
File Number			2017/XP/01/407	
Contract Date			Mon Jan 1 1968	
Ship Data				
Ship Length	L	[m]	68.000	
Service Notation			Dry Cargo/General Cargo Ship	
Material Yield Strength at Deck	$R_{eH,DECK}$	[N/mm ²]	235.000	
Spacing of Longitudinals at Deck		[m]	0.000	
Material Yield Strength at Bottom	$R_{eH,BOTTOM}$	[N/mm ²]	235.000	
Spacing of Longitudinals at Bottom		[m]	0.000	
Reserve Thickness	$t_{RESERVE}$	[mm]	0.500	
Survey Info				
Survey Location			Szczecin, Poland	
Thickness Measurements Carried Out From - To			Mon Feb 20 2017 - Thu Jul 20 2017	
Operator's Name			P. Wincior / T. Lampla	
Operator's Company			KONSTAL Sp. z o.o.	
Surveyor's Name			A. Miller	
Notes				



THICKNESS MEASUREMENT WORKSHEETS



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Thickness Measurement Report - Worksheet Contents

TM1-G - All Deck Plating, All Bottom Shell Plating or Side Shell Plating	
Ship's name and RINA number	Alva, RI: 90377
LIST OF TABLES IN WORKSHEET	
Table	Description
0 table(s) in worksheet	
Operator	P. Wncior / T. Lampka RINA Surveyor A. Miller



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Thickness Measurement Report - Worksheet Contents

TM2-G (I) - Shell and Deck Plating/Strength Deck and Sheerstrake Plating (one, two or three sections)	
Ship's name and RINA number	Alva, RI: 90377
LIST OF TABLES IN WORKSHEET	
Table	Description
0 table(s) in worksheet	
Operator	P. Wncior / T. Lampka
	RINA Surveyor
	A. Miler



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Thickness Measurement Report - Worksheet Contents

TM2-G (I) - Shell and Deck Plating/Shell Plating (one, two or three sections)	
Ship's name and RINA number	Alva, RI: 90377
LIST OF TABLES IN WORKSHEET	
Table	Description
0 table(s) in worksheet	
Operator	P. Wncior / T. Lampka RINA Surveyor A. Miler



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Thickness Measurement Report - Worksheet Contents

TM3-G - Longitudinal Members	
Ship's name and RINA number	
Alva, RI: 90377	
LIST OF TABLES IN WORKSHEET	
Table	Description
Afterpeak tk - Long. members i.w.o. frame 3 & 4 (Sketch 13)	
DB WBT No.4 - Long.members i.w.o. frame 23, 27 & 35 (Sketch 18)	
DB WBT No.4 - Long.members i.w.o. frame 31 (Sketch 18)	
DB WBT No.3 - Long.members i.w.o. frame 41 (Sketch 19)	
DB WBT No.3 - Long.members i.w.o. frame 42, 43 & 47 (Sketch 20)	
DB WBT No.3 - Long. members i.w.o. frame 51(Sketch 19)	
DB WBT No.2 - Long. members i.w.o. frame 59 (Sketch 21)	
DB WBT No.2 - Long.members i.w.o. frame 63, 67 & 71 (Sketch 22)	
DB WBT No.1 - Long.members i.w.o. frame 78, 81 & 84 (Sketch 23)	
DB WBT No.1 - Long. members i.w.o. frame 87 (Sketch 24)	
10 table(s) in worksheet	
Operator	P. Wncior / T. Lampla
	RINA Surveyor
	A. Miller



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Thickness Measurement Report - TM3

Ship's name and RINA number		THICKNESS MEASUREMENT OF LONGITUDINAL MEMBERS (one, two or three transverse section)																				Sheet			1	of	10			
STRUCTURAL MEMBER	N. or letter	TRANSVERSE SECTION AT FRAME N°.: 3										TRANSVERSE SECTION AT FRAME N°.: 4										TRANSVERSE SECTION AT FRAME N°.: 5			TRANSVERSE SECTION AT FRAME N°.: 6					
		Original thckn. [mm]	Rule thckn.* [mm]	Max. alwb. dim. [mm]		Gauged thickness [mm]		Diminution [mm] [%]		N. or letter	Original thckn. [mm]	Rule thckn.* [mm]	Max. alwb. dim. [mm]		Gauged thickness [mm]		Diminution [mm] [%]		N. or letter	Original thckn. [mm]	Rule thckn.* [mm]	Max. alwb. dim. [mm]		Gauged thickness [mm]		Diminution [mm] [%]				
				P	S	P	S	P	S				P	S	P	S	P	S				P	S	P	S					
Bottom Plating	S1	10.50	10.50	2.10	9.70	9.10	0.80	7.62	1.40	13.33	S1	10.50	10.50	2.10	10.10	9.10	0.40	3.81	1.40	13.33	S1	0.00	0.00	0.00						
Bottom Plating	S2	10.50	10.50	2.10	9.50	9.60	1.00	9.52	0.90	8.57	S2	10.50	10.50	2.10	9.70	9.40	0.80	7.62	1.10	10.48	S2	0.00	0.00	0.00						
Bottom Plating	S3	10.50	10.50	2.10	9.50	9.50	1.00	9.52	1.00	9.52	S3	10.50	10.50	2.10	9.70	9.20	0.80	7.62	1.30	12.38	S3	0.00	0.00	0.00						
Bottom Plating	IB1	7.50	7.50	1.50	5.60	5.90	1.90	25.33	1.60	21.33	IB1	7.50	7.50	1.50	5.50	6.00	2.00	26.67	1.50	20.00	IB1	0.00	0.00	0.00						
Bottom Plating	IB2	7.50	7.50	1.50	5.40	6.20	2.10	28.00	1.30	17.33	IB2	7.50	7.50	1.50	5.60	6.40	1.90	25.33	1.10	14.67	IB2	0.00	0.00	0.00						
Bottom Plating	IB3	7.50	7.50	1.50	5.70	6.10	1.80	24.00	1.40	18.67	IB3	7.50	7.50	1.50	5.60	6.00	1.90	25.33	1.50	20.00	IB3	0.00	0.00	0.00						
Longitudinal Girder	LB0	7.50	7.50	1.50	4.65		2.85	38.00			LB0	0.00	0.00	0.00							LB0	0.00	0.00	0.00						
Operator	P. Wncior / T. Lampka										RINA Surveyor										A. Miler									

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB}.

* If t_{RULE} = t_{AB}, only fill t_{AB}.



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Thickness Measurement Report - TM3

Ship's name and RINA number		THICKNESS MEASUREMENT OF LONGITUDINAL MEMBERS (one, two or three transverse section)																				Sheet		2		of		10					
STRUCTURAL MEMBER	N. or letter	TRANSVERSE SECTION AT FRAME N°.: 35										TRANSVERSE SECTION AT FRAME N°.: 23										TRANSVERSE SECTION AT FRAME N°.: 27											
		Original thickn.		Rule thickn.*		Max. alwb. dim.		Gauged thickness		Diminution		N. or letter	Original thickn.		Rule thickn.*		Max. alwb. dim.		Gauged thickness		Diminution		N. or letter	Original thickn.		Rule thickn.*		Max. alwb. dim.		Gauged thickness		Diminution	
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
Bottom Girder	BG1	7.50	7.50	1.50	7.65	7.60	0.00	0.00	0.00	0.00	BG1	7.50	7.50	1.50		7.80			0.00	0.00	BG1	7.50	7.50	1.50	7.75	7.65	0.00	0.00	0.00	0.00			
Bottom Plating	A	9.50	9.50	1.90	9.20	9.10	0.30	3.16	0.40	4.21	A	9.50	9.50	1.90	9.50	9.00	0.00	0.00	0.50	5.26	A	9.50	9.50	1.90	9.60	8.10	0.00	0.00	1.40	14.74			
Bottom Plating	B	9.50	9.50	1.90	9.40	8.90	0.10	1.05	0.60	6.32	B	9.50	9.50	1.90	9.50	9.40	0.00	0.00	0.10	1.05	B	9.50	9.50	1.90	9.50	9.70	0.00	0.00	0.00	0.00			
Bottom Plating	C	9.50	9.50	1.90	9.30	9.20	0.20	2.11	0.30	3.16	C	9.50	9.50	1.90	9.40	9.40	0.10	1.05	0.10	1.05	C	9.50	9.50	1.90	9.70	8.80	0.00	0.00	0.70	7.37			
Inner Bottom	IB1	7.00	7.00	1.40	6.75	6.75	0.25	3.57	0.25	3.57	IB1	7.00	7.00	1.40	7.00	7.20	0.00	0.00	0.00	0.00	IB1	7.00	7.00	1.40	6.90	7.00	0.10	1.43	0.00	0.00			
Inner Bottom	IB2	7.00	7.00	1.40							IB2	7.00	7.00	1.40	6.90	6.80	0.10	1.43	0.20	2.86	IB2	7.00	7.00	1.40	7.00	7.00	0.00	0.00	0.00	0.00			
Operator	P. Wincior / T. Lampka										RINA Surveyor										A. Miler												

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB}.

* If t_{RULE} = t_{AB}, only fill t_{AB}.



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Ship's name and RINA number		THICKNESS MEASUREMENT OF LONGITUDINAL MEMBERS (one, two or three transverse section)																		Sheet		5	of	10						
STRUCTURAL MEMBER	N. or letter	TRANSVERSE SECTION AT FRAME N°.: 42									TRANSVERSE SECTION AT FRAME N°.: 43									TRANSVERSE SECTION AT FRAME N°.: 47										
		Original thickness			Gauged thickness			Diminution			Original thickness			Gauged thickness			Diminution			Original thickness			Gauged thickness			Diminution				
		alwb. dim.	P	S	P	S	P	S	P	S	alwb. dim.	P	S	P	S	P	S	alwb. dim.	P	S	P	S	P	S	P	S	P	S		
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
Bottom Plating	A	9.50	9.50	1.90	9.50		0.00	0.00			A	9.50	9.50	1.90	9.50	9.50	0.00	0.00	0.00	0.00	A	9.50	9.50	1.90	9.95	9.90	0.00	0.00	0.00	0.00
Bottom Plating	B	9.50	9.50	1.90	9.50	10.00	0.00	0.00	0.00	0.00	B	9.50	9.50	1.90	9.70	10.00	0.00	0.00	0.00	0.00	B	9.50	9.50	1.90	9.90	9.90	0.00	0.00	0.00	0.00
Bottom Plating	C	9.50	9.50	1.90	8.50	9.00	1.00	10.53	0.50	5.26	C	9.50	9.50	1.90	8.20	8.63	1.30	13.68	0.87	9.12	C	9.50	9.50	1.90	7.85	8.20	1.65	17.37	1.30	13.68
Operator	P. Wincior / T. Lampka											RINA Surveyor									A. Miler									

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Ship's name and RINA number		THICKNESS MEASUREMENT OF LONGITUDINAL MEMBERS (one, two or three transverse section)																		Sheet												
Alva, RI: 90377		TRANSVERSE SECTION AT FRAME N°.: 59										TRANSVERSE SECTION AT FRAME N°.: :										7	of	10								
STRUCTURAL MEMBER	N. or letter	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution				N. or letter	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution				N. or letter	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution					
					P	S	P	S	P	S					P	S	P	S	P	S					P	S	P	S				
Bottom Plating	A	9.50	9.50	1.90	9.80	9.90	0.00	0.00	0.00	0.00	A	0.00	0.00	0.00							A	0.00	0.00	0.00								
Bottom Plating	B	9.50	9.50	1.90	8.80	9.70	0.70	7.37	0.00	0.00	B	0.00	0.00	0.00							B	0.00	0.00	0.00								
Bottom Plating	C	9.50	9.50	1.90	8.50	9.03	1.00	10.53	0.47	4.91	C	0.00	0.00	0.00							C	0.00	0.00	0.00								
Operator	P. Wincior / T. Lampka											RINA Surveyor										A. Miler										

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Ship's name and RINA number		THICKNESS MEASUREMENT OF LONGITUDINAL MEMBERS (one, two or three transverse section)																		Sheet										
Alva, RI: 90377		TRANSVERSE SECTION AT FRAME N°.: 63									TRANSVERSE SECTION AT FRAME N°.: 67									TRANSVERSE SECTION AT FRAME N°.: 71										
STRUCTURAL MEMBER	N. or letter	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution				N. or letter	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution				N. or letter	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution			
					P [mm]	S [mm]	P [mm]	S [mm]	P [%]	S [%]					P [mm]	S [mm]	P [mm]	S [mm]	P [%]	S [%]					P [mm]	S [mm]	P [mm]	S [mm]	P [%]	S [%]
Bottom Plating	FK	12.50	12.50	2.50	13.80	13.60	0.00	0.00	0.00	0.00	FK	12.50	12.50	2.50	13.50		0.00	0.00			FK	12.50	12.50	2.50	13.60		0.00	0.00		
Bottom Plating	A	11.50	11.50	2.30	9.90	11.80	1.60	13.91	0.00	0.00	A	11.50	11.50	2.30	9.85	11.70	1.65	14.35	0.00	0.00	A	11.50	11.50	2.30	9.80	12.00	1.70	14.78	0.00	0.00
Bottom Plating	B	9.50	9.50	1.90	9.90	9.90	0.00	0.00	0.00	0.00	B	11.50	11.50	2.30	9.90	10.00	1.60	13.91	1.50	13.04	B	11.50	11.50	2.30	10.20	11.40	1.30	11.30	0.10	0.87
Bottom Plating	C	9.50	9.50	1.90	7.85	8.03	1.65	17.37	1.47	15.53	C	12.00	12.00	2.40	9.90	10.20	2.10	17.50	1.80	15.00	C	12.00	12.00	2.40	10.20	9.90	1.80	15.00	2.10	17.50
Operator	P. Wincior / T. Lampka												RINA Surveyor									A. Miler								

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB}.

* If t_{RULE} = t_{AB}, only fill t_{AB}.



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Thickness Measurement Report - TM3

Ship's name and RINA number		THICKNESS MEASUREMENT OF LONGITUDINAL MEMBERS (one, two or three transverse section)																				Sheet													
Alva, RI: 90377		TRANSVERSE SECTION AT FRAME N°.: 87										TRANSVERSE SECTION AT FRAME N°.:										10	of	10											
STRUCTURAL MEMBER	N. or letter	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution				N. or letter	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution				N. or letter	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution								
					P	S	P	S	P	S					P	S	P	S	P	S					P	S									
Bottom Plating	FK	13.50	13.50	2.70	13.10		0.40	2.96			FK	0.00	0.00	0.00							FK	0.00	0.00	0.00											
Bottom Plating	A	12.00	12.00	2.40	11.05	11.15	0.95	7.92	0.85	7.08	A	0.00	0.00	0.00							A	0.00	0.00	0.00											
Bottom Plating	B	13.00	13.00	2.60	12.90	13.10	0.10	0.77	0.00	0.00	B	0.00	0.00	0.00							B	0.00	0.00	0.00											
Bottom Longitudinal	BL1	7.00	7.00	1.40	6.50	8.90	0.50	7.14	0.00	0.00	BL1	0.00	0.00	0.00							BL1	0.00	0.00	0.00											
Bottom Longitudinal	BL2	7.00	7.00	1.40	7.60	7.70	0.00	0.00	0.00	0.00	BL2	0.00	0.00	0.00							BL2	0.00	0.00	0.00											
Operator		P. Wncior / T. Lampka										RINA Surveyor										A. Miler													

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB}.
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Thickness Measurement Report - Worksheet Contents

TM4-G - Transverse Structural Members in Double Bottom, Hopper Side, Topside and Wing Water Ballast Tank	
Ship's name and RINA number	Alva, RI: 90377
LIST OF TABLES IN WORKSHEET	
Table	Description
DB WBT No.4 (Sketch 18)	
DB WBT No.4 (Sketch 18)	
DB WBT No.4 (Sketch 18)	
DB WBT No.4 (Sketch 18)	
DB WBT No.3 (Sketch 19)	
DB WBT No.3 (Sketch 20)	
DB WBT No.3 (Sketch 20)	
DB WBT No.3 (Sketch 20)	
DB WBT No.3 (Sketch 19)	
DB WBT No.2 (Sketch 21)	
DB WBT No.2 (Sketch 22)	
DB WBT No.2 (Sketch 22)	
DB WBT No.2 (Sketch 22)	
DB WBT No.2 (Sketch 22)	
DB WBT No.1 (Sketch 23)	
DB WBT No.1 (Sketch 23)	
DB WBT No.1 (Sketch 23)	
DB WBT No.1 (Sketch 24)	
18 table(s) in worksheet	
Operator	P. Wncior / T. Lampka
	RINA Surveyor
	A. Miler



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS											
Ship's name and RINA number		Alva, RI: 90377				Sheet	1	of	18		
TANK DESCRIPTION		DB WBT No.4 (Sketch 18)									
LOCATION OF STRUCTURE		DB WBT No.4									
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution				
		[mm]	[mm]	[mm]	P	S	P		S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]	
Floor Plating FR. 23	Item item	8.00	8.00	2.00	7.53	7.50	0.47	5.83	0.50	6.25	
Operator	P. Windor / T. Lampka			RINA Surveyor	A. Miller						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	2	of	18		
TANK DESCRIPTION		DB WBT No.4 (Sketch 18)								
LOCATION OF STRUCTURE		DB WBT No. 4								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 27	Item item	8.00	8.00	2.00	7.53	7.57	0.47	5.83	0.43	5.42
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	3	of	18		
TANK DESCRIPTION		DB WBT No.4 (Sketch 18)								
LOCATION OF STRUCTURE		DB WBT No.4								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 31	Item item	8.00	8.00	2.00	7.53	7.50	0.47	5.83	0.50	6.25
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	4	of	18		
TANK DESCRIPTION		DB WBT No.4 (Sketch 18)								
LOCATION OF STRUCTURE		DB WBT No.4								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 35	Item item	8.00	8.00	2.00	7.67	7.85	0.33	4.06	0.15	1.88
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	5	of	18		
TANK DESCRIPTION		DB WBT No.3 (Sketch 19)								
LOCATION OF STRUCTURE		DB WBT No.3								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 41	Item item	8.00	8.00	2.00	6.74	6.76	1.26	15.71	1.24	15.54
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	6	of	18		
TANK DESCRIPTION		DB WBT No.3 (Sketch 20)								
LOCATION OF STRUCTURE		DB WBT No.3								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 42	Item item	8.00	8.00	2.00	7.01	7.18	0.99	12.36	0.82	10.28
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	7	of	18		
TANK DESCRIPTION		DB WBT No.3 (Sketch 20)								
LOCATION OF STRUCTURE		DB WBT No.3								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 43	Item item	8.00	8.00	2.00	6.92	7.03	1.08	13.47	0.97	12.13
Operator	P. Windor / T. Lampka			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	8	of	18		
TANK DESCRIPTION		DB WBT No.3 (Sketch 20)								
LOCATION OF STRUCTURE		DB WBT No.3								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 47	Item item	8.00	8.00	2.00	7.13	7.41	0.87	10.88	0.59	7.34
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	9	of	18		
TANK DESCRIPTION		DB WBT No.3 (Sketch 19)								
LOCATION OF STRUCTURE		DB WBT No.3								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 51	Item item	8.00	8.00	2.00	7.04	7.01	0.96	11.96	0.99	12.32
Operator	P. Windor / T. Lampka			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	10	of	18		
TANK DESCRIPTION		DB WBT No.2 (Sketch 21)								
LOCATION OF STRUCTURE		DB WBT No.2								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 59	Item item	8.00	8.00	2.00	6.91	7.12	1.09	13.63	0.88	11.00
Operator	P. Windor / T. Lampka			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	11	of	18		
TANK DESCRIPTION		DB WBT No.2 (Sketch 22)								
LOCATION OF STRUCTURE		DB WBT No.2								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 63	Item item	8.00	8.00	2.00	7.21	7.14	0.79	9.83	0.86	10.75
Operator	P. Windor / T. Lampka			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	12	of	18		
TANK DESCRIPTION		DB WBT No.2 (Sketch 22)								
LOCATION OF STRUCTURE		DB WBT No.2								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR.67	Item item	8.00	8.00	2.00	6.80	7.03	1.20	15.00	0.97	12.08
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS											
Ship's name and RINA number				Alva, RI: 90377			Sheet	13	of	18	
TANK DESCRIPTION		DB WBT No.2 (Sketch 22)									
LOCATION OF STRUCTURE		DB WBT No.2									
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution				
		[mm]	[mm]	[mm]	P	S	P		S		
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[%]	[mm]	[%]	
Floor Plating	FR.67	8.00	8.00	2.00	0.00	6.34	0.00	0.00	1.66	20.75	
Operator	P. Windor / T. Lampka			RINA Surveyor	A. Miller						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	14	of	18		
TANK DESCRIPTION		DB WBT No.2 (Sketch 22)								
LOCATION OF STRUCTURE		DB WBT No.2								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 71	Item item	8.00	8.00	2.00	6.85	6.95	1.15	14.37	1.05	13.08
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS											
Ship's name and RINA number				Alva, RI: 90377			Sheet	15	of	18	
TANK DESCRIPTION		DB WBT No.1 (Sketch 23)									
LOCATION OF STRUCTURE		DB WBT No.1									
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution				
		[mm]	[mm]	[mm]	P	S	P		S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]	
Floor Plating FR. 78	Item item	8.00	8.00	2.00	7.47	7.80	0.53	6.67	0.20	2.50	
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	16	of	18		
TANK DESCRIPTION		DB WBT No.1 (Sketch 23)								
LOCATION OF STRUCTURE		DB WBT No.1								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 81	Item item	8.00	8.00	2.00	7.73	7.62	0.27	3.39	0.38	4.79
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	17	of	18		
TANK DESCRIPTION		DB WBT No.1 (Sketch 23)								
LOCATION OF STRUCTURE		DB WBT No.1								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 84	Item item	8.00	8.00	2.00	7.45	7.47	0.55	6.88	0.53	6.67
Operator	P. Windor / T. Lampka			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM4

THICKNESS MEASUREMENT OF TRANSVERSE STRUCTURAL MEMBERS IN BALLAST TANKS AND CARGO COMPARTMENTS										
Ship's name and RINA number		Alva, RI: 90377			Sheet	18	of	18		
TANK DESCRIPTION		DB WBT No.1 (Sketch 24)								
LOCATION OF STRUCTURE		DB WBT No.1								
STRUCTURAL MEMBER	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 87	Item item	8.00	8.00	2.00	7.47	7.67	0.53	6.61	0.33	4.17
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - Worksheet Contents

TM5-G - Transverse Bulkheads			
Ship's name and RINA number		Alva, RI: 90377	
LIST OF TABLES IN WORKSHEET			
Table	Description		
Transverse Bulkhead Frame 3 (Sketch 13)			
Transverse Bulkhead Frame 4 (Sketch 13)			
Transverse Bulkhead Frame 20 (Sketch 10)			
Transverse Bulkhead Frame 92 (Sketch 10)			
Transverse Bulkhead Frame 92 (Sketch 10)			
Transverse Bulkhead Frame 19 (Sketch 15)			
Transverse Bulkhead Frame 39 (Sketch 15)			
Transverse Bulkhead Frame 50 (Sketch 14)			
Transverse Bulkhead Frame 51 (Sketch 14)			
Fore Bulkhead at Frame 55 (Sketch 16)			
Fore Bulkhead at Frame 55 (Sketch 16)			
Transverse Bulkhead Frame 59 (Sketch 14)			
Fore Bulkhead at Frame 75 (Sketch 16)			
Fore Bulkhead at Frame 75 (Sketch 16)			
Transverse Bulkhead Frame 96 (Sketch 17)			
Transverse Bulkhead Frame 96 (Sketch 17)			
16 table(s) in worksheet			
Operator	P. Wincior / T. Lampla	RINA Surveyor	A. Miler



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS										
Ship's name and RINA number	Alva, RI: 90377					Sheet	1	of	16	
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 3 (Sketch 13)									
LOCATION OF STRUCTURE	Afterpeak Tank					FRAME N°	3			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P	[%]	S	[%]
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Plating	Item x1 - x19	7.50	7.50	1.88	5.41	5.43	2.09	27.86	2.07	27.61
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS											
Ship's name and RINA number	Alva, RI: 90377					Sheet	2	of	16		
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 4 (Sketch 13)										
LOCATION OF STRUCTURE	Afterpeak					FRAME N°		4			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thickn.			Gauged thickness		Diminution				
		Rule thickn.*	Max. alwb. dim.		P	S	P		S		
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[%]	[mm]	[%]	
Plating	Item x1 - x12	7.50	7.50	1.88	5.42	5.54	2.08	27.73	1.96	26.11	
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS										
Ship's name and RINA number	Alva, RI: 90377				Sheet	3	of	16		
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 20 (Sketch 10)									
LOCATION OF STRUCTURE	Cargo Hold				FRAME N°		20			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P	[%]	S	[%]
Plating	Item x1 - x16	7.50	7.50	1.88	6.88	6.65	0.62	8.33	0.85	11.38
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS										
Ship's name and RINA number	Alva, RI: 90377				Sheet	4	of	16		
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 92 (Sketch 10)									
LOCATION OF STRUCTURE	Cargo Hold				FRAME N°		92			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P	S	S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Plating	Item x1 - x15	7.50	7.50	1.88	7.39	7.69	0.11	1.42	0.00	0.00
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS											
Ship's name and RINA number	Alva, RI: 90377						Sheet	5	of	16	
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 92 (Sketch 10)										
LOCATION OF STRUCTURE	Cargo Hold				FRAME N°			92			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thckness		Diminution				
		[mm]	[mm]	[mm]	P	S	P		S		
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[%]	[mm]	[%]	
Plating	Item x16 - x21	7.50	7.50	1.88	5.87	5.25	1.63	21.78	2.25	30.00	
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS										
Ship's name and RINA number	Alva, RI: 90377					Sheet	6	of	16	
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 19 (Sketch 15)									
LOCATION OF STRUCTURE	DB WBT No.4				FRAME N°			19		
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P		S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Watertight floor FR. 19	Item x1 - x2	9.50	9.50	2.38	8.50	8.50	1.00	10.53	1.00	10.53
Stiffeners	Item vs1,vs2	8.00	8.00	2.00	7.75	7.80	0.25	3.12	0.20	2.50
Operator	P. Wincior / T. Lampka			RINA Surveyor		A. Miller				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS											
Ship's name and RINA number	Alva, RI: 90377						Sheet	7	of	16	
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 39 (Sketch 15)										
LOCATION OF STRUCTURE	DB WBT No.3					FRAME N°					39
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thckness		Diminution				
					P	S	P		S		
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[%]	[mm]	[%]
Floor Plating FR. 39	Item x1 - x9	9.50	9.50	2.38	8.93	8.97	0.57	5.96	0.53	5.61	
Stiffener 1	Item vs1	8.00	8.00	2.00	7.20	7.10	0.80	10.00	0.90	11.25	
Stiffener 2	Item vs2	8.00	8.00	2.00	6.90	7.10	1.10	13.75	0.90	11.25	
Stiffener 3	Item vs3	8.00	8.00	2.00	7.40	7.50	0.60	7.50	0.50	6.25	
Stiffener 4	Item vs4	8.00	8.00	2.00	7.50	7.90	0.50	6.25	0.10	1.25	
Stiffener 5	Item vs5	8.00	8.00	2.00	7.60	7.60	0.40	5.00	0.40	5.00	
Operator	P. Wncior / T. Lampla				RINA Surveyor		A. Miler				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS											
Ship's name and RINA number	Alva, RI: 90377						Sheet	8	of	16	
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 50 (Sketch 14)										
LOCATION OF STRUCTURE	DB VBT No.3				FRAME N°			50			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thckn.	Rule thckn.*	Max. alwb. dim.	Gauged thickness		Diminution				
		[mm]	[mm]	[mm]	P	S	P		S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]	
Plating	Item x1 - x10	9.50	9.50	2.38	7.99	7.98	1.51	15.89	1.52	16.02	
Stiffener 0	Item 0	8.00	8.00	2.00	7.65	0.00	0.35	4.37	0.00	0.00	
Stiffener 1	Item ST1	8.00	8.00	2.00	6.00	6.10	2.00	25.00	1.90	23.75	
Stiffener 2	Item ST2	8.00	8.00	2.00	6.05	5.90	1.95	24.38	2.10	26.25	
Operator	P. Wincior / T. Lampla			RINA Surveyor	A. Miller						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS												
Ship's name and RINA number	Alva, RI: 90377						Sheet	9	of	16		
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 51 (Sketch 14)											
LOCATION OF STRUCTURE	DB WBT No.3					FRAME N°		51				
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thckness		Diminution					
		[mm]	[mm]	[mm]	P	S	P		S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Plating	Item x1 - x9	9.50	9.50	2.38	8.40	8.28	1.10	11.58	1.22	12.89		
Stiffener 1	Item ST1	8.00	8.00	2.00	5.35	5.70	2.65	33.13	2.30	28.75		
Stiffener 2	Item ST2	8.00	8.00	2.00	5.20	5.70	2.80	35.00	2.30	28.75		
Operator	P. Wncior / T. Lampla				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS										
Ship's name and RINA number	Alva, RI: 90377				Sheet	10	of	16		
TANK/HOLD DESCRIPTION	Fore Bulkhead at Frame 55 (Sketch 16)									
LOCATION OF STRUCTURE	DB VBT No.2				FRAME N°		55			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thckn.	Rule thckn.*	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P	S	P	S
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[%]	[mm]	[%]
Plating	Item x1 - x15	9.50	9.50	2.38	7.92	7.09	1.58	16.67	2.41	25.33
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS											
Ship's name and RINA number	Alva, RI: 90377						Sheet	11	of	16	
TANK/HOLD DESCRIPTION	Fore Bulkhead at Frame 55 (Sketch 16)										
LOCATION OF STRUCTURE	DB WBT No.2				FRAME N°			55			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thickn.	Rule thickn.	Max. alwb. dim.	Gauged thickness		Diminution				
		[mm]	[mm]	[mm]	P	S	P	S	P	S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]	
Plating	Item x16 - x19	9.50	9.50	2.38	0.00	6.58	0.00	0.00	2.92	30.79	
Stiffener	Item VS1 - VS4	8.00	8.00	2.00	5.92	6.08	2.08	25.94	1.92	24.06	
Operator	P. Wincior / T. Lampka			RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS											
Ship's name and RINA number	Alva, RI: 90377						Sheet	12	of	16	
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 59 (Sketch 14)										
LOCATION OF STRUCTURE	DB WBT No.2					FRAME N°					59
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thidness		Diminution				
		[mm]	[mm]	[mm]	P	S	P		S		
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[%]	[mm]	[%]	
Plating	Item x1 - x5	9.50	9.50	2.38	8.14	8.07	1.36	14.32	1.43	15.00	
Operator	P. Windor / T. Lampla				RINA Surveyor		A. Miller				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS										
Ship's name and RINA number	Alva, RI: 90377				Sheet	13	of	16		
TANK/HOLD DESCRIPTION	Fore Bulkhead at Frame 75 (Sketch 16)									
LOCATION OF STRUCTURE	DB VBT No.1			FRAME N°		75				
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thckn.	Rule thckn.*	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P	S	S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]
Plating	Item x1 - x15	9.50	9.50	2.38	6.89	6.65	2.61	27.51	2.85	29.96
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS											
Ship's name and RINA number	Alva, RI: 90377						Sheet	14	of	16	
TANK/HOLD DESCRIPTION	Fore Bulkhead at Frame 75 (Sketch 16)										
LOCATION OF STRUCTURE	DB WBT No.1				FRAME N°			75			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thickn.	Rule thickn.	Max. alwb. dim.	Gauged thickness		Diminution				
		[mm]	[mm]	[mm]	P	S	P	S	P	S	
					[mm]	[mm]	[mm]	[%]	[mm]	[%]	
Stiffener	Item VS1 - VS2	8.00	8.00	2.00	6.65	6.05	1.35	16.87	1.95	24.37	
Operator	P. Windor / T. Lampla			RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS										
Ship's name and RINA number	Alva, RI: 90377					Sheet	15	of	16	
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 96 (Sketch 17)									
LOCATION OF STRUCTURE	Forepeak Tank				FRAME N°		96			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
		[mm]	[mm]	[mm]	P	S	P	[%]	S	[%]
					[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
Plating	Item x1 - x15	7.50	7.50	1.88	7.23	6.57	0.27	3.64	0.93	12.44
Operator	P. Windor / T. Lampla			RINA Surveyor	A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM5

THICKNESS MEASUREMENT OF CARGO HOLDS TRANSVERSE BULKHEADS											
Ship's name and RINA number	Alva, RI: 90377						Sheet	16	of	16	
TANK/HOLD DESCRIPTION	Transverse Bulkhead Frame 96 (Sketch 17)										
LOCATION OF STRUCTURE	Forepeak Tank				FRAME N°			96			
STRUCTURAL COMPONENT (PLATING/STIFFENER)	ITEM	Original thckn.	Rule thckn.	Max. alwb. dim.	Gauged thckness		Diminution				
		[mm]	[mm]	[mm]	P	S	P		S		
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[%]	[mm]	[%]	
Plating	Item x16 - x19	7.50	7.50	1.88	0.00	7.00	0.00	0.00	0.50	6.67	
vertical stiffener	Item VS1	8.00	8.00	2.00	7.60	7.10	0.40	5.00	0.90	11.25	
vertical stiffener	Item VS2	8.00	8.00	2.00	8.70	6.85	0.00	0.00	1.15	14.38	
vertical stiffener	Item VS3	8.00	8.00	2.00	6.95	6.90	1.05	13.13	1.10	13.75	
Operator	P. Wncior / T. Lampla				RINA Surveyor		A. Miller				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - Worksheet Contents

TMS-G S18/S19 - Transverse Bulkheads subject to UR S18/S19	
Ship's name and RINA number	Alva, RI: 90377
LIST OF TABLES IN WORKSHEET	
Table	Description
0 table(s) in worksheet	
Operator	P. Wncior / T. Lampka RINA Surveyor A. Miller



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Thickness Measurement Report - Worksheet Contents

TM6-G - Miscellaneous Structural Members			
Ship's name and RINA number		Alva, RI: 90377	
LIST OF TABLES IN WORKSHEET			
Table	Description		
87 table(s) in worksheet	(detailed list omitted)		
Operator	P. Wncior / T. Lampka	RINA Surveyor	A. Miller



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	1	of	87			
TANK/HOLD DESCRIPTION		Forepeak Tank (Sketch 32)										
LOCATION OF STRUCTURE		Tank Top plating										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item x1 - x16	7.50	7.50	1.50	20.00	5.31	5.39	2.19	29.17	2.11	28.08		Tank Top Plating 96-104
Operator	P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	2	of	87				
TANK/HOLD DESCRIPTION		Forepeak Tank (Sketch 32)											
LOCATION OF STRUCTURE		Tank Top Plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x17 - x32	7.50	7.50	1.50	20.00	5.19	5.44	2.31	30.83	2.06	27.42		Tank Top Plating 96-104	
Operator		P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	3	of	87			
TANK/HOLD DESCRIPTION		Forepeak Tank (Sketch 32)										
LOCATION OF STRUCTURE		Tank Top Plating										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item x33 - x51	7.50	7.50	1.50	20.00	5.29	7.65	2.21	29.47	0.00	0.00		Tank Top Plating 96-104
Operator		P. Windor / T. Lampla				RINA Surveyor		A. Miller				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	4	of	87				
TANK/HOLD DESCRIPTION		Stringer in Forepeak Tank (Sketch 33)											
LOCATION OF STRUCTURE		Forepeak Tank											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x1 - x11	7.50	7.50	1.50	20.00	5.12	5.54	2.38	31.76	1.96	26.17		Stringer in Forepeak Tank 96-102	
Operator		P. Wincior / T. Lampka				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	5	of	87				
TANK/HOLD DESCRIPTION		Swash Longitudinal Bulkhead in CL (Sketch 34)											
LOCATION OF STRUCTURE		Deep Tank											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x1 - x11	6.50	6.50	1.30	20.00	5.89	0.00	0.61	9.37	0.00	0.00		Swash Longitudinal Bulkhead in CL 92-96	
Operator		P. Wincior / T. Lampka				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	6	of	87				
TANK/HOLD DESCRIPTION		Swash Longitudinal Bulkhead in CL (Sketch 35)											
LOCATION OF STRUCTURE		Forepeak Tank											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x1 - x14	7.50	7.50	1.50	20.00	8.36	0.00	0.00	0.00	0.00	0.00		Swash Longitudinal Bulkhead in CL 97-104	
Operator		P. Wincior / T. Lampka				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	7	of	87				
TANK/HOLD DESCRIPTION		Swash Longitudinal Bulkhead in CL (Sketch 35)											
LOCATION OF STRUCTURE		Forepeak Tank											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x15 - x29	7.50	7.50	1.50	20.00	8.81	0.00	0.00	0.00	0.00	0.00		Swash Longitudinal Bulkhead in CL 97-104	
Operator		P. Wincior / T. Lampka				RINA Surveyor		A. Milner					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	8	of	87				
TANK/HOLD DESCRIPTION		Fire Pipe (Sketch 36)											
LOCATION OF STRUCTURE		Main Deck											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item A	4.60	4.60	1.15	25.00	3.60	0.00	1.00	21.74	0.00	0.00		Fire Pipe	
Item B	4.60	4.60	1.15	25.00	7.03	0.00	0.00	0.00	0.00	0.00		Fire Pipe	
Item C	4.60	4.60	1.15	25.00	4.40	0.00	0.20	4.35	0.00	0.00		Fire Pipe	
Item D	4.60	4.60	1.15	25.00	7.83	0.00	0.00	0.00	0.00	0.00		Fire Pipe	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	9	of	87				
TANK/HOLD DESCRIPTION		Fire Pipe (Sketch 36)											
LOCATION OF STRUCTURE		Main Deck											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item E	4.60	4.60	1.15	25.00	6.80	0.00	0.00	0.00	0.00	0.00		Fire Pipe	
Item F	4.60	4.60	1.15	25.00	6.67	0.00	0.00	0.00	0.00	0.00		Fire Pipe	
Item G	4.60	4.60	1.15	25.00	5.10	0.00	0.00	0.00	0.00	0.00		Fire Pipe	
Item H	4.60	4.60	1.15	25.00	5.47	0.00	0.00	0.00	0.00	0.00		Fire Pipe	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	10	of	87				
TANK/HOLD DESCRIPTION		Fire Pipe (Sketch 36)											
LOCATION OF STRUCTURE		Main Deck											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item I	4.60	4.60	1.15	25.00	4.63	0.00	0.00	0.00	0.00	0.00		Fire Pipe	
Item J	4.60	4.60	1.15	25.00	4.83	0.00	0.00	0.00	0.00	0.00		Fire Pipe	
Item K	4.60	4.60	1.15	25.00	3.57	0.00	1.03	22.46	0.00	0.00		Fire Pipe	
Operator		P. Wncior / T. Lampla				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number	Alva, RI: 90377				Sheet	11	of	87				
TANK/HOLD DESCRIPTION	Cargo hold (Sketch 12)											
LOCATION OF STRUCTURE	Inner bottom plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P [mm]	S [mm]	P [mm]	[%]	S [mm]	[%]		
Item x1 - x16	7.00	7.00	1.40	20.00	12.25	12.88	0.00	0.00	0.00	0.00		Top Tank 19-75
Operator	P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	12	of	87				
TANK/HOLD DESCRIPTION		Cargo Hold (Sketch 12)											
LOCATION OF STRUCTURE		Inner bottom plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x17 - x32	7.00	7.00	1.40	20.00	12.34	10.03	0.00	0.00	0.00	0.00		Tank Top 18-75	
Operator		P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	13	of	87				
TANK/HOLD DESCRIPTION		Cargo Hold (Sketch 12)											
LOCATION OF STRUCTURE		Inner bottom plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x33 - x48	7.00	7.00	1.40	20.00	10.10	10.56	0.00	0.00	0.00	0.00		Top Tank 18-75	
Operator		P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	14	of	87				
TANK/HOLD DESCRIPTION		Cargo Hold (Sketch 12)											
LOCATION OF STRUCTURE		Inner bottom plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x49 - x64	7.00	7.00	1.40	20.00	9.31	9.53	0.00	0.00	0.00	0.00		Top Tank 19-75	
Operator		P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	15	of	87				
TANK/HOLD DESCRIPTION		Cargo Hold (Sketch 12)											
LOCATION OF STRUCTURE		Inner bottom plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x65 - x81	7.00	7.00	1.40	20.00	10.61	11.00	0.00	0.00	0.00	0.00		Top Tank 19-75	
Operator		P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number	Alva, RI: 90377						Sheet	16	of	87		
TANK/HOLD DESCRIPTION	Cargo Hold (Sketch 12)											
LOCATION OF STRUCTURE	Inner bottom plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
Item x82 - x98	7.00	7.00	1.40	20.00	9.22	10.75	0.00	0.00	0.00	0.00		Top Tank 19-75
Operator	P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	17	of	87				
TANK/HOLD DESCRIPTION		Cargo Hold (Sketch 12)											
LOCATION OF STRUCTURE		Inner bottom plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x99 - x103	7.00	7.00	1.40	20.00	5.46	0.00	1.54	22.00	0.00	0.00		Top Tank 19-75	
Operator		P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	18	of	87				
TANK/HOLD DESCRIPTION		Longitudinal Bulhead 2000 off CL (Sketch 37 and 38)											
LOCATION OF STRUCTURE		DB WBT No.1											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
Item x1 - x14	7.50	7.50	1.50	20.00	7.63	7.59	0.00	0.00	0.00	0.00		WBT No. 1	
Operator		P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	19	of	87				
TANK/HOLD DESCRIPTION		Longitudinal Bulkhead 2000 off CL (Sketch 37 and 38)											
LOCATION OF STRUCTURE		DB WBT No. 2											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
Item x1 - x21	7.50	7.50	1.50	20.00	6.94	6.90	0.56	7.51	0.60	8.06		WBT No. 2	
Operator		P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number	Alva, RI: 90377							Sheet	20	of	87	
TANK/HOLD DESCRIPTION	Longitudinal Bulkhead 2000 off CL (Sketch 37 and 38)											
LOCATION OF STRUCTURE	DB WBT No. 3											
STRUCTURAL MEMBER	Original thickness [mm]	Rule thickness [mm]	Max. allow. diminution [mm] [%]		Gauged thickness		Diminution				SKETCH	Location
					P [mm]	S [mm]	P [mm] [%]		S [mm] [%]			
Item x1 - x16	7.50	7.50	1.50	20.00	6.93	6.56	0.57	7.58	0.94	12.58		WBT No. 3
Operator	P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number	Alva, RI: 90377							Sheet	21	of	87	
TANK/HOLD DESCRIPTION	Longitudinal Bulkhead 2000 off CL (Sketch 37 and 38)											
LOCATION OF STRUCTURE	DB WBT No. 3											
STRUCTURAL MEMBER	Original thickness [mm]	Rule thickness [mm]	Max. allow. diminution [mm] [%]		Gauged thickness		Diminution				SKETCH	Location
					P [mm]	S [mm]	P [mm] [%]		S [mm] [%]			
Item x17 - x25	7.50	7.50	1.50	20.00	6.64	6.48	0.86	11.41	1.02	13.56		WBT No. 3
Operator	P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	22	of	87				
TANK/HOLD DESCRIPTION		Side Hatch Coaming (Plate) (Sketch 2)											
LOCATION OF STRUCTURE		Frames 25 - 41											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x1 - x16	11.00	11.00	2.75	25.00	11.46	11.74	0.00	0.00	0.00	0.00		x1 - x16 Hatch Coaming Plate	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	23	of	87				
TANK/HOLD DESCRIPTION		Side Hatch Coaming (Plate) (Sketch 2)											
LOCATION OF STRUCTURE		Frames 41 - 54											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x17 - x32	11.00	11.00	2.75	25.00	11.13	11.07	0.00	0.00	0.00	0.00		x17 - x32 Hatch Coaming Plate	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	24	of	87				
TANK/HOLD DESCRIPTION		Side Hatch Coaming (Plate) (Sketch 2)											
LOCATION OF STRUCTURE		Frames 54 - 80											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x33 - x48	11.00	11.00	2.75	25.00	11.82	11.73	0.00	0.00	0.00	0.00		x33 - x48 Hatch Coaming Plate	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	25	of	87				
TANK/HOLD DESCRIPTION		Side Hatch Coaming (Plate) (Sketch 2)											
LOCATION OF STRUCTURE		Frames 80 -91											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x49 - x60	11.00	11.00	2.75	25.00	11.20	11.12	0.00	0.00	0.00	0.00		x49 - x60 Hatch Coaming Plate	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	26	of	87			
TANK/HOLD DESCRIPTION		Side Hatch Coaming (Top Rail) (Sketch 2)										
LOCATION OF STRUCTURE		Frames 24 - 58										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	P	S	P	S		
Item T1 - T16	11.00	11.00	2.75	25.00	6.74	7.47	4.26	38.69	3.53	32.10		T1 - T16 Hatch Coaming Top Rail
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	27	of	87				
TANK/HOLD DESCRIPTION		Side Hatch Coaming (Top Rail) (Sketch 2)											
LOCATION OF STRUCTURE		Frames 58 - 61											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	P	S	P	S			
Item T17 - T28	11.00	11.00	2.75	25.00	8.79	8.61	2.21	20.08	2.39	21.74		T17 - T28 Hatch Coaming Top Rail	
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miller						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	28	of	87			
TANK/HOLD DESCRIPTION		Side Hatch Coaming (bracket web & flange) (Sketch 2)										
LOCATION OF STRUCTURE		Frames 25 - 39										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item bracket web FR. 25-39	8.00	8.00	2.00	25.00	7.10	7.21	0.90	11.25	0.79	9.84		Side Hatch Coaming bracket Web & Flange
Item bracket flange FR. 25-39	8.00	8.00	2.00	25.00	6.84	7.24	1.16	14.53	0.76	9.53		Side Hatch Coaming bracket Web & Flange
Operator	P. Wincior / T. Lampka				RINA Surveyor				A. Miller			

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	29	of	87			
TANK/HOLD DESCRIPTION		Side Hatch Coaming (bracket web & flange) (Sketch 2)										
LOCATION OF STRUCTURE		Frames 41 - 52										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item bracket web FR. 41-52	8.00	8.00	2.00	25.00	8.38	8.20	0.00	0.00	0.00	0.00		Side Hatch Coaming bracket Web & Flange
Item bracket flange FR. 41-52	8.00	8.00	2.00	25.00	10.47	10.59	0.00	0.00	0.00	0.00		Side Hatch Coaming bracket Web & Flange
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	30	of	87			
TANK/HOLD DESCRIPTION		Side Hatch Coaming (bracket web & flange) (Sketch 2)										
LOCATION OF STRUCTURE		Frames 54 - 76										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item bracket web FR. 54-76	8.00	8.00	2.00	25.00	8.21	8.11	0.00	0.00	0.00	0.00		Side Hatch Coaming bracket Web & Flange
Item bracket flange FR. 54-76	8.00	8.00	2.00	25.00	8.00	8.29	0.00	0.00	0.00	0.00		Side Hatch Coaming bracket Web & Flange
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	31	of	87			
TANK/HOLD DESCRIPTION		Side Hatch Coaming (bracket web & flange) (Sketch 2)										
LOCATION OF STRUCTURE		Frames 78-91										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P		S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item bracket web FR. 78-91	8.00	8.00	2.00	25.00	7.69	7.70	0.31	3.91	0.30	3.75		Side Hatch Coaming bracket Web & Flange
Item bracket flange FR. 78-91	8.00	8.00	2.00	25.00	7.69	7.80	0.31	3.91	0.20	2.50		Side Hatch Coaming bracket Web & Flange
Operator	P. Wincior / T. Lampka				RINA Surveyor				A. Miller			

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	32	of	87				
TANK/HOLD DESCRIPTION		Aft End Hatch Coamings Frame 20 (Sketch 3)											
LOCATION OF STRUCTURE		Frame 20											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Coamings Plate	11.00	11.00	2.75	25.00	11.27	11.30	0.00	0.00	0.00	0.00		Aft End 20 Hatch Coaming	
Item Top Rail	11.00	11.00	2.75	25.00	10.40	10.20	0.60	5.45	0.80	7.27		Aft End 20 Hatch Coaming	
Item Bracket Web	8.00	8.00	2.00	25.00	7.20	7.20	0.80	10.00	0.80	10.00		Aft End 20 Hatch Coaming	
Operator		P. Wncior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	33	of	87				
TANK/HOLD DESCRIPTION		Fore End Hatch Coamings Frame 60 (Sketch 3)											
LOCATION OF STRUCTURE		Frame 60											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Coamings Plate	11.00	11.00	2.75	25.00	10.80	11.20	0.20	1.82	0.00	0.00		Fore End 92 Hatch Coaming	
Item Top Rail	11.00	11.00	2.75	25.00	10.05	9.90	0.95	8.64	1.10	10.00		Fore End 92 Hatch Coaming	
Item Bracket Web	8.00	8.00	2.00	25.00	7.30	7.35	0.70	8.75	0.65	8.13		Fore End 92 Hatch Coaming	
Item Bracket Flange	8.00	8.00	2.00	25.00	7.35	7.25	0.65	8.13	0.75	9.38		Fore End 92 Hatch Coaming	
Operator		P. Wncior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	34	of	87				
TANK/HOLD DESCRIPTION		Aft End Hatch Coamings Frame 70 (Sketch 3)											
LOCATION OF STRUCTURE		Frame 70											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P [mm]	S [mm]	P [mm]	[%]	S [mm]	[%]			
Item Coamings Plate	11.00	11.00	2.75	25.00	11.30	11.40	0.00	0.00	0.00	0.00		Aft End 70 Hatch Coaming	
Item Top Rail	11.00	11.00	2.75	25.00	10.70	10.85	0.30	2.73	0.15	1.36		Aft End 70 Hatch Coaming	
Item Bracket Web	8.00	8.00	2.00	25.00	7.45	7.25	0.55	6.87	0.75	9.38		Aft End 70 Hatch Coaming	
Item Bracket Flange	8.00	8.00	2.00	25.00	7.20	7.35	0.80	10.00	0.65	8.13		Aft End 70 Hatch Coaming	
Operator		P. Wncior / T. Lampka				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	35	of	87				
TANK/HOLD DESCRIPTION		Fore End Hatch Coamings Frame 92 (Sketch 3)											
LOCATION OF STRUCTURE		Frame 92											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Coamings Plate	11.00	11.00	2.75	25.00	11.10	11.20	0.00	0.00	0.00	0.00		Fore End 92 Hatch Coaming	
Item Top Rail	11.00	11.00	2.75	25.00	10.83	10.73	0.17	1.52	0.27	2.42		Fore End 92 Hatch Coaming	
Item Bracket Web	8.00	8.00	2.00	25.00	7.90	7.40	0.10	1.25	0.60	7.50		Fore End 92 Hatch Coaming	
Item Bracket Flange	8.00	8.00	2.00	25.00	7.90	7.40	0.10	1.25	0.60	7.50		Fore End 92 Hatch Coaming	
Operator		P. Wncior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	36	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 4)										
LOCATION OF STRUCTURE		Part 1										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	6.25	6.40	1.75	21.88	1.60	20.00		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.15	10.10	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	37	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 4)										
LOCATION OF STRUCTURE		Part 1										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P		S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Stiffener web	8.00	8.00	2.00	25.00	7.20	7.03	0.80	10.00	0.97	12.19		S1
Item Stiffener flange	15.00	15.00	3.75	25.00	8.50	10.20	6.50	43.33	4.80	32.00		S1
Item Stiffener web	8.00	8.00	2.00	25.00	7.22	7.00	0.78	9.69	1.00	12.50		S2
Item Stiffener flange	15.00	15.00	3.75	25.00	10.62	10.85	4.38	29.17	4.15	27.67		S2
Operator		P. Wincior / T. Lampka				RINA Surveyor		A. Miller				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	38	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 4)										
LOCATION OF STRUCTURE		Part 2										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	7.55	7.50	0.45	5.62	0.50	6.25		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.15	10.10	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	39	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 4)											
LOCATION OF STRUCTURE		Part 2											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	3.95	5.20	4.05	50.62	2.80	35.00		S1	
Item Stiffener flange	15.00	15.00	3.75	25.00	6.05	6.40	8.95	59.67	8.60	57.33		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	3.45	5.40	4.55	56.88	2.60	32.50		S2	
Item Stiffener flange	15.00	15.00	3.75	25.00	4.10	7.45	10.90	72.67	7.55	50.33		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	40	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 4)										
LOCATION OF STRUCTURE		Part 3										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	7.16	7.30	0.84	10.47	0.70	8.75		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.15	10.15	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	41	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 4)											
LOCATION OF STRUCTURE		Part 3											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	3.50	3.40	4.50	56.25	4.60	57.50		S1	
Item Stiffener flange	15.00	15.00	3.75	25.00	6.00	6.45	9.00	60.00	8.55	57.00		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	3.90	5.60	4.10	51.25	2.40	30.00		S2	
Item Stiffener flange	15.00	15.00	3.75	25.00	6.80	6.15	8.20	54.67	8.85	59.00		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	42	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 5)										
LOCATION OF STRUCTURE		Part 4										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	6.66	6.97	1.34	16.75	1.03	12.92		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.10	10.05	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	43	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 5)											
LOCATION OF STRUCTURE		Part 4											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	6.33	6.37	1.67	20.83	1.63	20.42		S1	
Item Stiffener flange	15.00	15.00	3.75	25.00	6.97	7.70	8.03	53.56	7.30	48.67		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	6.77	7.13	1.23	15.42	0.87	10.83		S2	
Item Stiffener flange	15.00	15.00	3.75	25.00	8.67	8.17	6.33	42.22	6.83	45.56		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	44	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 5)										
LOCATION OF STRUCTURE		Part 5										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	8.18	8.02	0.00	0.00	0.00	0.00		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.15	10.10	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	45	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 5)										
LOCATION OF STRUCTURE		Part 5										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P		S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Stiffener web	8.00	8.00	2.00	25.00	4.03	5.90	3.97	49.69	2.10	26.25		S1
Item Stiffener flange	12.00	12.00	3.00	25.00	5.53	6.67	6.47	53.89	5.33	44.44		S1
Item Stiffener web	8.00	8.00	2.00	25.00	3.77	4.23	4.23	52.92	3.77	47.08		S2
Item Stiffener flange	12.00	12.00	3.00	25.00	9.13	9.37	2.87	23.89	2.63	21.94		S2
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	46	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 5)											
LOCATION OF STRUCTURE		Part 6											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Top Plate	8.00	8.00	2.00	25.00	7.28	7.53	0.72	9.06	0.47	5.83			
Item Skirt Plate	10.00	10.00	2.50	25.00	10.15	10.10	0.00	0.00	0.00	0.00			
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	47	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 5)											
LOCATION OF STRUCTURE		Part 6											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	6.20	4.27	1.80	22.50	3.73	46.67		S1	
Item Stiffener flange	12.00	12.00	3.00	25.00	5.63	5.90	6.37	53.06	6.10	50.83		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	5.57	5.00	2.43	30.42	3.00	37.50		S2	
Item Stiffener flange	12.00	12.00	3.00	25.00	6.87	7.07	5.13	42.78	4.93	41.11		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	48	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 6)										
LOCATION OF STRUCTURE		Part 7										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	8.07	8.07	0.00	0.00	0.00	0.00		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.15	10.15	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	49	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 6)											
LOCATION OF STRUCTURE		Part 7											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	4.65	5.70	3.35	41.87	2.30	28.75		S1	
Item Stiffener flange	15.00	15.00	3.75	25.00	10.40	7.00	4.60	30.67	8.00	53.33		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	5.20	5.65	2.80	35.00	2.35	29.37		S2	
Item Stiffener flange	15.00	15.00	3.75	25.00	13.25	10.80	1.75	11.67	4.20	28.00		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	50	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 6)										
LOCATION OF STRUCTURE		Part 8										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	8.27	8.18	0.00	0.00	0.00	0.00		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.05	10.10	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	51	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 6)											
LOCATION OF STRUCTURE		Part 8											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	3.33	4.63	4.67	58.33	3.37	42.08		S1	
Item Stiffener flange	15.00	15.00	3.75	25.00	11.63	12.73	3.37	22.44	2.27	15.11		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	4.10	4.53	3.90	48.75	3.47	43.33		S2	
Item Stiffener flange	15.00	15.00	3.75	25.00	11.27	11.77	3.73	24.89	3.23	21.56		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	52	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 6)											
LOCATION OF STRUCTURE		Part 9											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Top Plate	8.00	8.00	2.00	25.00	7.47	7.53	0.53	6.56	0.47	5.94			
Item Skirt Plate	10.00	10.00	2.50	25.00	10.10	10.10	0.00	0.00	0.00	0.00			
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	53	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 6)											
LOCATION OF STRUCTURE		Part 9											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	4.65	6.50	3.35	41.87	1.50	18.75		S1	
Item Stiffener flange	12.00	12.00	3.00	25.00	9.05	9.93	2.95	24.58	2.07	17.22		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	6.53	6.13	1.47	18.44	1.87	23.33		S2	
Item Stiffener flange	12.00	12.00	3.00	25.00	9.97	8.17	2.03	16.88	3.83	31.94		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	54	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 7)											
LOCATION OF STRUCTURE		Part 10											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Top Plate	8.00	8.00	2.00	25.00	7.30	7.33	0.70	8.75	0.67	8.44			
Item Skirt Plate	10.00	10.00	2.50	25.00	10.00	10.15	0.00	0.00	0.00	0.00			
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	55	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 7)										
LOCATION OF STRUCTURE		Part 10										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P		S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Stiffener web	8.00	8.00	2.00	25.00	3.77	3.77	4.22	52.81	4.23	52.92		S1
Item Stiffener flange	15.00	15.00	3.75	25.00	12.68	13.23	2.32	15.50	1.77	11.78		S1
Item Stiffener web	8.00	8.00	2.00	25.00	4.45	4.47	3.55	44.38	3.53	44.17		S2
Item Stiffener flange	15.00	15.00	3.75	25.00	12.75	13.03	2.25	15.00	1.97	13.11		S2
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	56	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 7)											
LOCATION OF STRUCTURE		Part 11											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Top Plate	8.00	8.00	2.00	25.00	7.27	7.40	0.73	9.06	0.60	7.50			
Item Skirt Plate	10.00	10.00	2.50	25.00	10.05	10.10	0.00	0.00	0.00	0.00			
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	57	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 7)											
LOCATION OF STRUCTURE		Part 11											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	7.70	6.87	0.30	3.75	1.13	14.06		S1	
Item Stiffener flange	15.00	15.00	3.75	25.00	13.78	13.73	1.22	8.17	1.27	8.50		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	7.70	7.53	0.30	3.75	0.47	5.94		S2	
Item Stiffener flange	15.00	15.00	3.75	25.00	12.73	12.88	2.27	15.11	2.12	14.17		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	58	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 7)										
LOCATION OF STRUCTURE		Part 12										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P		S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	7.12	7.15	0.88	10.94	0.85	10.62		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.05	10.20	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	59	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 7)										
LOCATION OF STRUCTURE		Part 12										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P		S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Stiffener web	8.00	8.00	2.00	25.00	7.17	7.60	0.83	10.42	0.40	5.00		S1
Item Stiffener flange	12.00	12.00	3.00	25.00	8.80	10.07	3.20	26.67	1.93	16.11		S1
Item Stiffener web	8.00	8.00	2.00	25.00	7.37	7.23	0.63	7.92	0.77	9.58		S2
Item Stiffener flange	12.00	12.00	3.00	25.00	9.43	10.47	2.57	21.39	1.53	12.78		S2
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	60	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 8)										
LOCATION OF STRUCTURE		Part 13										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	7.80	7.90	0.20	2.50	0.10	1.25		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.15	10.20	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	61	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 8)											
LOCATION OF STRUCTURE		Part 13											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	6.77	6.43	1.23	15.42	1.57	19.58		S1	
Item Stiffener flange	15.00	15.00	3.75	25.00	12.27	11.47	2.73	18.22	3.53	23.56		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	6.35	7.65	1.65	20.63	0.35	4.37		S2	
Item Stiffener flange	15.00	15.00	3.75	25.00	10.20	11.75	4.80	32.00	3.25	21.67		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	62	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 8)										
LOCATION OF STRUCTURE		Part 14										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	6.78	6.73	1.22	15.31	1.27	15.94		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.15	10.20	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	63	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 8)											
LOCATION OF STRUCTURE		Part 14											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	7.90	7.03	0.10	1.25	0.97	12.08		S1	
Item Stiffener flange	12.00	12.00	3.00	25.00	9.90	8.03	2.10	17.50	3.97	33.06		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	7.53	7.67	0.47	5.83	0.33	4.17		S2	
Item Stiffener flange	12.00	12.00	3.00	25.00	9.13	8.03	2.87	23.89	3.97	33.06		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	64	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 8)										
LOCATION OF STRUCTURE		Part 15										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	7.17	7.12	0.83	10.31	0.88	10.94		
Item Skirt Plate	10.00	10.00	2.50	25.00	10.05	10.10	0.00	0.00	0.00	0.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	65	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 8)											
LOCATION OF STRUCTURE		Part 15											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	7.90	6.95	0.10	1.25	1.05	13.13		S1	
Item Stiffener flange	15.00	15.00	3.75	25.00	9.50	10.70	5.50	36.67	4.30	28.67		S1	
Operator		P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	66	of	87			
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 9)										
LOCATION OF STRUCTURE		Part 16										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item Top Plate	8.00	8.00	2.00	25.00	8.23	8.10	0.00	0.00	0.00	0.00		
Item Skirt Plate	10.00	10.00	2.50	25.00	9.95	9.70	0.05	0.50	0.30	3.00		
Operator	P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	67	of	87				
TANK/HOLD DESCRIPTION		Hatch Cover (Sketch 9)											
LOCATION OF STRUCTURE		Part 16											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item Stiffener web	8.00	8.00	2.00	25.00	5.85	6.35	2.15	26.88	1.65	20.63		S1	
Item Stiffener flange	15.00	15.00	3.75	25.00	7.35	6.65	7.65	51.00	8.35	55.67		S1	
Item Stiffener web	8.00	8.00	2.00	25.00	7.55	5.10	0.45	5.63	2.90	36.25		S2	
Item Stiffener flange	15.00	15.00	3.75	25.00	11.55	10.65	3.45	23.00	4.35	29.00		S2	
Operator		P. Wincior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	68	of	87				
TANK/HOLD DESCRIPTION		Main Deck (Sketch 1)											
LOCATION OF STRUCTURE		Deck plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	[%]	S	[%]			
Item A1	7.00	7.00	1.40	20.00	7.50	7.40	0.00	0.00	0.00	0.00		18-93	
Item A2	16.00	16.00	3.20	20.00	16.47	16.60	0.00	0.00	0.00	0.00		18-93	
Item A3	9.00	9.00	1.80	20.00	8.28	8.43	0.72	8.00	0.57	6.39		18-93	
Item A4	16.00	16.00	3.20	20.00	15.80	15.90	0.20	1.25	0.10	0.62		18-93	
Item A5	9.00	9.00	1.80	20.00	8.12	9.08	0.88	9.72	0.00	0.00		18-93	
Item A6	16.00	16.00	3.20	20.00	15.90	15.90	0.10	0.62	0.10	0.62		18-93	
Item A7	9.00	9.00	1.80	20.00	8.85	8.85	0.15	1.67	0.15	1.67		18-93	
Item A8	16.00	16.00	3.20	20.00	15.65	16.20	0.35	2.19	0.00	0.00		18-93	
Item A9	9.00	9.00	1.80	20.00	9.38	9.02	0.00	0.00	0.00	0.00		18-93	
Item A10	12.00	12.00	2.40	20.00	12.15	12.25	0.00	0.00	0.00	0.00		18-93	
Item A11	16.00	16.00	3.20	20.00	18.30	18.35	0.00	0.00	0.00	0.00		18-93	
Item B1	7.00	7.00	1.40	20.00	7.00	7.05	0.00	0.00	0.00	0.00		18-93	
Item B2	7.00	7.00	1.40	20.00	6.85	7.05	0.15	2.14	0.00	0.00		18-93	
Item CL1	10.00	10.00	2.00	20.00	10.20	10.20	0.00	0.00	0.00	0.00		18-93	
Item CL2	10.00	10.00	2.00	20.00	10.00	10.00	0.00	0.00	0.00	0.00		18-93	
Item CL3	7.00	7.00	1.40	20.00	7.05	7.15	0.00	0.00	0.00	0.00		18-93	
Operator		P. Wncior / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	69	of	87				
TANK/HOLD DESCRIPTION		Poop Deck (Sketch 25)											
LOCATION OF STRUCTURE		Deck plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item CL	7.00	7.00	1.40	20.00	6.90	6.95	0.10	1.43	0.05	0.71		(-4)-10	
Item A1	7.00	7.00	1.40	20.00	7.07	6.92	0.00	0.00	0.08	1.07		(-4)-10	
Item A2	7.00	7.00	1.40	20.00	6.95	7.05	0.05	0.71	0.00	0.00		(-4)-10	
Item A3	7.00	7.00	1.40	20.00	8.45	8.35	0.00	0.00	0.00	0.00		(-4)-10	
Item B1	7.00	7.00	1.40	20.00	6.75	6.80	0.25	3.57	0.20	2.86		(-4)-10	
Item B2	7.00	7.00	1.40	20.00	6.90	7.05	0.10	1.43	0.00	0.00		(-4)-10	
Operator		P. Wncior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	70	of	87				
TANK/HOLD DESCRIPTION		Boat Deck (Sketch 26)											
LOCATION OF STRUCTURE		Deck plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item CL	6.00	6.00	1.20	20.00	6.03	5.95	0.00	0.00	0.05	0.83		(-)-12	
Item CL1	6.00	6.00	1.20	20.00	5.80	0.00	0.20	3.33	0.00	0.00		(-)-12	
Item A1	6.00	6.00	1.20	20.00	6.04	5.98	0.00	0.00	0.02	0.33		(-)-12	
Item A2	6.00	6.00	1.20	20.00	6.05	5.95	0.00	0.00	0.05	0.83		(-)-12	
Item B1	6.00	6.00	1.20	20.00	6.10	6.05	0.00	0.00	0.00	0.00		(-)-12	
Item B2	6.00	6.00	1.20	20.00	6.15	5.95	0.00	0.00	0.05	0.83		(-)-12	
Operator		P. Wncior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	71	of	87				
TANK/HOLD DESCRIPTION		Bridge Deck (Sketch 27)											
LOCATION OF STRUCTURE		Deck plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item A1	6.00	6.00	1.20	20.00	8.35	6.05	0.00	0.00	0.00	0.00		10-18	
Item A2	6.00	6.00	1.20	20.00	6.30	0.00	0.00	0.00	0.00	0.00		10-18	
Item B	6.00	6.00	1.20	20.00	6.28	6.08	0.00	0.00	0.00	0.00		10-18	
Operator		P. Wncior / T. Lampla				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	72	of	87				
TANK/HOLD DESCRIPTION		Navigation Deck (Sketch 28)											
LOCATION OF STRUCTURE		Deck plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item CL	5.50	5.50	1.10	20.00	5.45	5.35	0.05	0.91	0.15	2.73		10-18	
Item A	5.50	5.50	1.10	20.00	5.40	5.43	0.10	1.82	0.07	1.36		10-18	
Item B	5.50	5.50	1.10	20.00	5.50	5.40	0.00	0.00	0.10	1.82		10-18	
Operator		P. Wncior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	73	of	87				
TANK/HOLD DESCRIPTION		Steering Room Deck (Sketch 29)											
LOCATION OF STRUCTURE		Deck plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item CL	8.00	8.00	1.60	20.00	7.75	7.62	0.25	3.12	0.38	4.69			
Item A	8.00	8.00	1.60	20.00	10.16	10.08	0.00	0.00	0.00	0.00			
Item A1	8.00	8.00	1.60	20.00	7.75	6.97	0.25	3.12	1.03	12.81			
Operator		P. Wncior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	74	of	87				
TANK/HOLD DESCRIPTION		Deck Plating / Cabin floor (Sketch 30)											
LOCATION OF STRUCTURE		Deck plating											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item A	7.50	7.50	1.50	20.00	5.33	0.00	2.17	28.98	0.00	0.00		6-15	
Item B	7.50	7.50	1.50	20.00	5.01	0.00	2.49	33.25	0.00	0.00		6-15	
Operator		P. Wincior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	75	of	87			
TANK/HOLD DESCRIPTION		Forecastle deck (Sketch 31)										
LOCATION OF STRUCTURE		Deck plating										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item CL1	7.50	7.50	1.50	20.00	10.10	10.00	0.00	0.00	0.00	0.00		93-107
Item CL2	7.50	7.50	1.50	20.00	7.20	7.25	0.30	4.00	0.25	3.33		93-107
Item CL2a	7.50	7.50	1.50	20.00	7.50	8.00	0.00	0.00	0.00	0.00		93-107
Item CL2b	7.50	7.50	1.50	20.00	8.00	7.80	0.00	0.00	0.00	0.00		93-107
Item CL2c	7.50	7.50	1.50	20.00	0.00	8.00	0.00	0.00	0.00	0.00		93-107
Item A1	7.50	7.50	1.50	20.00	7.36	7.40	0.14	1.87	0.10	1.33		93-107
Item A1a	7.50	7.50	1.50	20.00	0.00	8.00	0.00	0.00	0.00	0.00		93-107
Item B1	7.50	7.50	1.50	20.00	7.15	6.57	0.35	4.67	0.93	12.44		93-107
Item B1a	7.50	7.50	1.50	20.00	7.90	0.00	0.00	0.00	0.00	0.00		93-107
Operator		P. Wncior / T. Lampka				RINA Surveyor			A. Miller			

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	76	of	87				
TANK/HOLD DESCRIPTION		Internal structure (Sketch 41)											
LOCATION OF STRUCTURE		Deep Tank											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x1 - x8	7.50	7.50	1.88	25.00	7.11	7.13	0.39	5.17	0.37	5.00		Transverse web frame 95	
Operator		P. Windor / T. Lampla				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	77	of	87				
TANK/HOLD DESCRIPTION		Internal structure (Sketch 41)											
LOCATION OF STRUCTURE		Deep Tank											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item TT1	7.50	7.50	1.50	20.00	6.20	6.30	1.30	17.33	1.20	16.00		Tank Top 95	
Item TT2	7.50	7.50	1.50	20.00	6.40	6.10	1.10	14.67	1.40	18.67		Tank Top 95	
Item TT3	7.50	7.50	1.50	20.00	6.10	6.50	1.40	18.67	1.00	13.33		Tank Top 95	
Item A	15.00	15.00	3.00	20.00	13.60	13.70	1.40	9.33	1.30	8.67		Side shell plate 95	
Item B	13.50	13.50	2.70	20.00	12.70	12.80	0.80	5.93	0.70	5.19		Side shell plate 95	
Item C	13.50	13.50	2.70	20.00	13.00	13.00	0.50	3.70	0.50	3.70		Side shell plate 95	
Item D	13.50	13.50	2.70	20.00	13.00	13.10	0.50	3.70	0.40	2.96		Side shell plate 95	
Operator		P. Wncior / T. Lampka				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	78	of	87				
TANK/HOLD DESCRIPTION		Internal structure (Sketch 39)											
LOCATION OF STRUCTURE		Forepeak Tank											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item x1	8.00	8.00	2.00	25.00	7.00	7.80	1.00	12.50	0.20	2.50		Deck beam 97	
Item x2 - x3	7.00	7.00	1.75	25.00	5.85	4.15	1.15	16.43	2.85	40.71		Side shell frame 97	
Item x4 - x11	7.50	7.50	1.88	25.00	7.77	7.81	0.00	0.00	0.00	0.00		Web frame 97	
Item bk1	8.00	8.00	2.00	25.00	7.90	7.90	0.10	1.25	0.10	1.25		Bracket 97	
Item bk2	8.00	8.00	2.00	25.00	7.10	7.20	0.90	11.25	0.80	10.00		Bracket 97	
Item STR1	8.00	8.00	1.60	20.00	10.00	10.20	0.00	0.00	0.00	0.00		Stringer, web 97	
Item STR1	8.00	8.00	1.60	20.00	11.50	11.30	0.00	0.00	0.00	0.00		Stringer, flange 97	
Item STR2	8.00	8.00	1.60	20.00	6.30	6.20	1.70	21.25	1.80	22.50		Stringer 97	
Operator	P. Wncior / T. Lampka					RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	79	of	87				
TANK/HOLD DESCRIPTION		Internal structure (Sketch 39)											
LOCATION OF STRUCTURE		Forepeak Tank											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P	[%]	S	[%]			
Item TT1	7.50	7.50	1.50	20.00	5.90	6.00	1.60	21.33	1.50	20.00		Tank Top 97	
Item TT2	7.50	7.50	1.50	20.00	6.40	6.20	1.10	14.67	1.30	17.33		Tank Top 97	
Item A	13.50	13.50	2.70	20.00	13.20	13.40	0.30	2.22	0.10	0.74		Side shell plate 97	
Item B	13.50	13.50	2.70	20.00	13.00	11.90	0.50	3.70	1.60	11.85		Side shell plate 97	
Item C	13.50	13.50	2.70	20.00	12.40	10.50	1.10	8.15	3.00	22.22		Side shell plate 97	
Item D	9.00	9.00	1.80	20.00	9.70	6.40	0.00	0.00	2.60	28.89		Side shell plate 97	
Operator		P. Wncior / T. Lampka				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	80	of	87			
TANK/HOLD DESCRIPTION		Internal structure (Sketch 40)										
LOCATION OF STRUCTURE		Forepeak Tank										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item x1	8.00	8.00	2.00	25.00	8.10	5.20	0.00	0.00	2.80	35.00		Deck beam 98
Item x2 - x3	7.00	7.00	1.75	25.00	6.75	6.10	0.25	3.57	0.90	12.86		Side shell frame 98
Item x4 - x5	7.50	7.50	1.88	25.00	7.00	6.50	0.50	6.67	1.00	13.33		Web frame 98
Item x6	7.00	7.00	1.75	25.00	6.00	6.10	1.00	14.29	0.90	12.86		Vertical stiffener 98
Item bk1	8.00	8.00	2.00	25.00	9.40	9.85	0.00	0.00	0.00	0.00		Bracket 98
Item bk2	8.00	8.00	2.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00		Bracket 98
Item LB1 - LB2	7.50	7.50	1.50	20.00	8.00	0.00	0.00	0.00	0.00	0.00		Long. bhd 98
Item STR1	8.00	8.00	1.60	20.00	10.10	10.20	0.00	0.00	0.00	0.00		Stringer, web 98
Item STR1	8.00	8.00	1.60	20.00	11.30	11.10	0.00	0.00	0.00	0.00		Stringer, flange 98
Item STR2	8.00	8.00	1.60	20.00	6.40	6.20	1.60	20.00	1.80	22.50		Stringer 98
Operator	P. Wincior / T. Lampla				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS														
Ship's name and Rina number		Alva, RI: 90377				Sheet	81	of	87					
TANK/HOLD DESCRIPTION		Internal structure (Sketch 40)												
LOCATION OF STRUCTURE		Forepeak Tank												
STRUCTURAL MEMBER	Original thickness		Rule thickness		Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]		[mm]		[%]		P	S	P		S			
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]	[mm]	[%]		
Item TT1	7.50	7.50	1.50	20.00	5.50	5.70	2.00	26.67	1.80	24.00			Tank Top 98	
Item TT2	7.50	7.50	1.50	20.00	6.10	6.10	1.40	18.67	1.40	18.67			Tank Top 98	
Item A	13.50	13.50	2.70	20.00	13.10	12.90	0.40	2.96	0.60	4.44			Side shell plate 98	
Item B	13.50	13.50	2.70	20.00	12.80	13.00	0.70	5.19	0.50	3.70			Side shell plate 98	
Item C	13.50	13.50	2.70	20.00	12.70	10.60	0.80	5.93	2.90	21.48			Side shell plate 98	
Item D	9.00	9.00	1.80	20.00	9.00	10.00	0.00	0.00	0.00	0.00			Side shell plate 98	
Operator		P. Wncior / T. Lampka				RINA Surveyor		A. Miler						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	82	of	87			
TANK/HOLD DESCRIPTION		Internal structure (Sketch 40)										
LOCATION OF STRUCTURE		Forepeak Tank										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P	S	P	S		
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item x1	8.00	8.00	2.00	25.00	11.20	11.00	0.00	0.00	0.00	0.00		Deck beam 99
Item x2 - x3	7.00	7.00	1.75	25.00	5.95	8.05	1.05	15.00	0.00	0.00		Side shell frame 99
Item x4 - x5	7.50	7.50	1.88	25.00	6.95	6.30	0.55	7.33	1.20	16.00		Web frame 99
Item x6	7.00	7.00	1.75	25.00	0.00	0.00	0.00	0.00	0.00	0.00		Vertical stiffener 99
Item bk1	8.00	8.00	2.00	25.00	10.30	10.10	0.00	0.00	0.00	0.00		Bracket 99
Item bk2	8.00	8.00	2.00	25.00	10.00	10.00	0.00	0.00	0.00	0.00		Bracket 99
Item LB1 - LB2	7.50	7.50	1.50	20.00	7.90	0.00	0.00	0.00	0.00	0.00		Long. bhd 99
Item STR1	8.00	8.00	1.60	20.00	10.20	9.90	0.00	0.00	0.00	0.00		Stringer, web 99
Item STR1	8.00	8.00	1.60	20.00	11.00	11.00	0.00	0.00	0.00	0.00		Stringer, flange 99
Item STR2	8.00	8.00	1.60	20.00	6.30	6.10	1.70	21.25	1.90	23.75		Stringer 99
Operator	P. Wincior / T. Lampla				RINA Surveyor		A. Miler					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS																
Ship's name and Rina number		Alva, RI: 90377				Sheet		83		of		87				
TANK/HOLD DESCRIPTION		Internal structure (Sketch 40)														
LOCATION OF STRUCTURE		Forepeak Tank														
STRUCTURAL MEMBER	Original thickness		Rule thickness		Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location		
	[mm]		[mm]		[%]		P		S		P				S	
	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	[%]	[mm]	[%]	[mm]	[%]			[mm]	[%]
Item TT1	7.50	7.50	1.50	20.00	6.00	5.20	1.50	20.00	2.30	30.67					Tank Top 99	
Item TT2	7.50	7.50	1.50	20.00	5.80	6.30	1.70	22.67	1.20	16.00					Tank Top 99	
Item A	13.50	13.50	2.70	20.00	13.20	13.40	0.30	2.22	0.10	0.74					Side shell plate 99	
Item B	13.50	13.50	2.70	20.00	12.70	12.80	0.80	5.93	0.70	5.19					Side shell plate 99	
Item C	13.50	13.50	2.70	20.00	12.30	12.00	1.20	8.89	1.50	11.11					Side shell plate 99	
Item D	9.00	9.00	1.80	20.00	7.90	8.00	1.10	12.22	1.00	11.11					Side shell plate 99	
Operator		P. Wncior / T. Lampka				RINA Surveyor				A. Miler						

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	84	of	87			
TANK/HOLD DESCRIPTION		Internal structure (Sketch 40)										
LOCATION OF STRUCTURE		Forepeak Tank										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P		S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item x1	8.00	8.00	2.00	25.00	5.70	6.40	2.30	28.75	1.60	20.00		Deck beam 100
Item x2 - x3	7.00	7.00	1.75	25.00	6.55	5.60	0.45	6.43	1.40	20.00		Side shell frame 100
Item x4	7.00	7.00	1.75	25.00	6.20	0.00	0.80	11.43	0.00	0.00		Vertical stiffener 100
Item bk1	8.00	8.00	2.00	25.00	7.90	8.40	0.10	1.25	0.00	0.00		Bracket 100
Item bk2	8.00	8.00	2.00	25.00	7.90	7.50	0.10	1.25	0.50	6.25		Bracket 100
Item LB1 - LB2	7.50	7.50	1.50	20.00	8.20	0.00	0.00	0.00	0.00	0.00		Long. bhd 100
Item STR1	8.00	8.00	1.60	20.00	10.20	10.10	0.00	0.00	0.00	0.00		Stringer, web 100
Item STR1	8.00	8.00	1.60	20.00	15.20	14.90	0.00	0.00	0.00	0.00		Stringer, flange 100
Operator	P. Wincior / T. Lampka					RINA Surveyor		A. Miller				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet		85	of	87		
TANK/HOLD DESCRIPTION		Internal structure (Sketch 40)										
LOCATION OF STRUCTURE		Forepeak Tank										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P		S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item TT1	7.50	7.50	1.50	20.00	6.70	6.60	0.80	10.67	0.90	12.00		Tank Top 100
Item TT2	7.50	7.50	1.50	20.00	6.00	6.50	1.50	20.00	1.00	13.33		Tank Top 100
Item B	13.50	13.50	2.70	20.00	12.40	10.90	1.10	8.15	2.60	19.26		Side shell plate 100
Item C	13.50	13.50	2.70	20.00	12.30	12.30	1.20	8.89	1.20	8.89		Side shell plate 100
Item D	9.00	9.00	1.80	20.00	8.00	7.00	1.00	11.11	2.00	22.22		Side shell plate 100
Operator		P. Wincior / T. Lampka				RINA Surveyor			A. Miler			

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS												
Ship's name and Rina number		Alva, RI: 90377				Sheet	86	of	87			
TANK/HOLD DESCRIPTION		Internal structure (Sketch 40)										
LOCATION OF STRUCTURE		Forepeak Tank										
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location
	[mm]	[mm]	[mm]	[%]	P	S	P		S			
					[mm]	[mm]	[mm]	[%]	[mm]	[%]		
Item x1	8.00	8.00	2.00	25.00	6.40	6.40	1.60	20.00	1.60	20.00		Deck beam 101
Item x2 - x3	7.00	7.00	1.75	25.00	6.65	6.90	0.35	5.00	0.10	1.43		Side shell frame 101
Item x4	7.00	7.00	1.75	25.00	6.00	0.00	1.00	14.29	0.00	0.00		Vertical stiffener 101
Item bk1	8.00	8.00	2.00	25.00	8.30	8.60	0.00	0.00	0.00	0.00		Bracket 101
Item bk2	8.00	8.00	2.00	25.00	7.50	7.50	0.50	6.25	0.50	6.25		Bracket 101
Item LB1 - LB2	7.50	7.50	1.50	20.00	8.20	9.20	0.00	0.00	0.00	0.00		Long. bhd 101
Item STR1	8.00	8.00	1.60	20.00	10.10	10.00	0.00	0.00	0.00	0.00		Stringer, web 101
Item STR1	8.00	8.00	1.60	20.00	15.10	15.20	0.00	0.00	0.00	0.00		Stringer, flange 101
Operator	P. Wncior / T. Lampka					RINA Surveyor		A. Miller				

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM6

THICKNESS MEASUREMENT OF MISCELLANEOUS STRUCTURAL ELEMENTS													
Ship's name and Rina number		Alva, RI: 90377				Sheet	87	of	87				
TANK/HOLD DESCRIPTION		Internal structure (Sketch 40)											
LOCATION OF STRUCTURE		Forepeak Tank											
STRUCTURAL MEMBER	Original thickness	Rule thickness	Max. allow. diminution		Gauged thickness		Diminution				SKETCH	Location	
	[mm]	[mm]	[mm]	[%]	P	S	P		S				
					[mm]	[mm]	[mm]	[%]	[mm]	[%]			
Item TT1	7.50	7.50	1.50	20.00	7.50	6.80	0.00	0.00	0.70	9.33		Tank Top 101	
Item TT2	7.50	7.50	1.50	20.00	6.10	6.50	1.40	18.67	1.00	13.33		Tank Top 101	
Item B	13.50	13.50	2.70	20.00	12.10	11.90	1.40	10.37	1.60	11.85		Side shell plate 101	
Item C	13.50	13.50	2.70	20.00	12.50	12.20	1.00	7.41	1.30	9.63		Side shell plate 101	
Item D	16.00	16.00	3.20	20.00	14.60	14.70	1.40	8.75	1.30	8.13		Side shell plate 101	
Operator		P. Wincior / T. Lampka				RINA Surveyor		A. Miller					

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .

* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - Worksheet Contents

TM6-G S21A - Hatch Covers and Other Members subject to UR S21A	
Ship's name and RINA number	Alva, RI: 90377
LIST OF TABLES IN WORKSHEET	
Table	Description
0 table(s) in worksheet	
Operator	P. Wncior / T. Lampka RINA Surveyor A. Miller



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Thickness Measurement Report - Worksheet Contents

TM7-G - Cargo Hold Transverse Frames	
Ship's name and RINA number	Alva, RI: 90377
LIST OF TABLES IN WORKSHEET	
Table	Description
Side Shell Frame 25, 26 & 27 (Sketch 11)	
Side Shell Frame 28, 29 & 37 (Sketch 11)	
Side Shell Frame 38, 39 & 40 (Sketch 11)	
Side Shell Frame 41, 42 & 43 (Sketch 11)	
Side Shell Frame 44, 45 & 46 (Sketch 11)	
Side Shell Frame 47, 48 & 49 (Sketch 11)	
Side Shell Frame 50, 51 & 52 (Sketch 11)	
Side Shell Frame 53, 54 & 55 (Sketch 11)	
Side Shell Frame 56, 57 & 58 (Sketch 11)	
Side Shell Frame 59, 60 & 61 (Sketch 11)	
Side Shell Frame 62, 63 & 64 (Sketch 11)	
Side Shell Frame 65, 66 & 67 (Sketch 11)	
Side Shell Frame 68, 69 & 70 (Sketch 11)	
Side Shell Frame 71, 72 & 73 (Sketch 11)	
Side Shell Frame 74 & 75 (Sketch 11)	
15 table(s) in worksheet	
Operator	P. Wincor / T. Lampla
	RINA Surveyor
	A. Miller



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Thickness Measurement Report - TM7

Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																Sheet		1		of		15						
CARGO HOLD N°.		Side Shell Frame 25, 26 & 27 (Sketch 11)																												
FRAME NUMBER / Item	UPPERT PART									MID PART									LOWER PART											
	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution				Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution				Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution						
				P	S	P	S	P	S				P	S	P	S	P	S				P	S	P	S					
(Fr.25) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	6.60		0.00	0.00				
(Fr.25) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00								8.00	8.00	2.00	9.20		0.00	0.00				
(Fr.25) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								10.50	10.50	2.10	10.60		0.00	0.00				
(Fr.26) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	7.25		0.00	0.00				
(Fr.26) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00								8.00	8.00	2.00	7.60		0.40	5.00				
(Fr.26) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								10.50	10.50	2.10	10.75		0.00	0.00				
(Fr.27) x1, x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	6.10	5.90	0.40	6.15	0.60	0.95		
(Fr.27) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								10.50	10.50	2.10	10.75	10.40	0.00	0.00	0.10	0.95		
Operator	P. Wincior / T. Lampka																RINA Surveyor			A. Miler										

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Thickness Measurement Report - TM7

Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																	Sheet		2	of	15									
CARGO HOLD N°.		Side Shell Frame 28, 29 & 37 (Sketch 11)																														
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART													
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution								
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	P	S					
(Fr.28) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62						7.05				0.00	0.00
(Fr.28) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00						7.50				0.50	6.25
(Fr.28) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10						10.45				0.05	0.48
(Fr.29) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62						6.80				0.00	0.00
(Fr.29) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00						6.90				1.10	13.75
(Fr.29) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10						10.50				0.00	0.00
(Fr.37) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62						8.05				0.00	0.00
(Fr.37) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00						8.00				0.00	0.00
(Fr.37) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10						10.75				0.00	0.00
Operator	P. Wncior / T. Lampka																	RINA Surveyor			A. Miller											

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Thickness Measurement Report - TM7

Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																		Sheet		3		of		15	
CARGO HOLD N°.		Side Shell Frame 38, 39 & 40 (Sketch 11)																									
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART								
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S
(Fr.38) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.08	7.43	0.00	0.00	0.00	0.00
(Fr.38) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.80	7.50	0.20	2.50	0.50	6.25
(Fr.38) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.65	10.75	0.00	0.00	0.00	0.00
(Fr.39) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	6.35	8.20	0.15	2.31	0.00	0.00
(Fr.39) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.20	7.70	0.80	10.00	0.30	3.75
(Fr.39) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.75	11.00	0.00	0.00	0.00	0.00
(Fr.40) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.35	7.55	0.00	0.00	0.00	0.00
(Fr.40) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	8.00	7.70	0.00	0.00	0.30	3.75
(Fr.40) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.60	10.55	0.00	0.00	0.00	0.00
Operator	P. Wncior / T. Lampka											RINA Surveyor						A. Miller									

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM7

THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																												
Ship's name and RINA number										Alva, RI: 90377										Sheet		4	of	15				
CARGO HOLD N°.										Side Shell Frame 41, 42 & 43 (Sketch 11)																		
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART									
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				
				P	S	P	S	P	S				P	S	P	S	P	S				P	S					
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
(Fr.41) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	9.85	9.95	0.00	0.00	0.00	0.00
(Fr.41) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								10.50	10.50	2.10	10.45	10.40	0.05	0.48	0.10	0.95
(Fr.42) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	9.50	10.05	0.00	0.00	0.00	0.00
(Fr.42) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								10.50	10.50	2.10	10.50	10.50	0.00	0.00	0.00	0.00
(Fr.43) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	9.65	9.85	0.00	0.00	0.00	0.00
(Fr.43) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								10.50	10.50	2.10	10.45	10.60	0.05	0.48	0.00	0.00
Operator	P. Wncior / T. Lampla										RINA Surveyor										A. Miler							

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM7

Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																	Sheet		5	of	15				
CARGO HOLD N°.		Side Shell Frame 44, 45 & 46 (Sketch 11)																									
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART								
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S
(Fr.44) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.28	7.18	0.00	0.00	0.00	0.00
(Fr.44) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	8.10	7.50	0.00	0.00	0.50	6.25
(Fr.44) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.45	10.45	0.05	0.48	0.05	0.48
(Fr.45) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	6.55	6.90	0.00	0.00	0.00	0.00
(Fr.45) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.50	7.80	0.50	6.25	0.20	2.50
(Fr.45) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.45	10.60	0.05	0.48	0.00	0.00
(Fr.46) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.78	7.62	0.00	0.00	0.00	0.00
(Fr.46) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.60	7.90	0.40	5.00	0.10	1.25
(Fr.46) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.45	10.65	0.05	0.48	0.00	0.00
Operator	P. Wncior / T. Lampka											RINA Surveyor						A. Miller									

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM7

Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																			Sheet		6	of	15		
CARGO HOLD N°.		Side Shell Frame 47, 48 & 49 (Sketch 11)																									
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART								
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S
(Fr.47) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	6.55	6.90	0.00	0.00	0.00	0.00
(Fr.47) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	9.80	7.50	0.00	0.00	0.50	6.25
(Fr.47) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.40	10.60	0.10	0.95	0.00	0.00
(Fr.48) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.55	7.52	0.00	0.00	0.00	0.00
(Fr.48) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.90	7.60	0.10	1.25	0.40	5.00
(Fr.48) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.55	10.65	0.00	0.00	0.00	0.00
(Fr.49) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62						
(Fr.49) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00						
(Fr.49) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10						
Operator	P. Wncior / T. Lampka											RINA Surveyor						A. Miller									

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM7

Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																			Sheet	7	of	15							
CARGO HOLD N°.		Side Shell Frame 50, 51 & 52 (Sketch 11)																													
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART												
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution							
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	[mm]	[%]	[mm]	[%]		
(Fr.50) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.40	7.38	0.00	0.00	0.00	0.00				
(Fr.50) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.80	7.80	0.20	2.50	0.20	2.50				
(Fr.50) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.55	10.45	0.00	0.00	0.05	0.48				
(Fr.51) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.10	7.15	0.00	0.00	0.00	0.00				
(Fr.51) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.80	7.80	0.20	2.50	0.20	2.50				
(Fr.51) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.65	10.50	0.00	0.00	0.00	0.00				
(Fr.52) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.40	7.57	0.00	0.00	0.00	0.00				
(Fr.52) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.70	7.90	0.30	3.75	0.10	1.25				
(Fr.52) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.35	10.55	0.15	1.43	0.00	0.00				
Operator	P. Wncior / T. Lampka											RINA Surveyor									A. Miller										

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM7

Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																		Sheet		8	of	15			
CARGO HOLD N°.		Side Shell Frame 53, 54 & 55 (Sketch 11)																									
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART								
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	P	S
(Fr.53) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.85	7.35	0.00	0.00	0.00	0.00
(Fr.53) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.90	7.70	0.10	1.25	0.30	3.75
(Fr.53) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.35	10.60	0.15	1.43	0.00	0.00
(Fr.54) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.82	7.70	0.00	0.00	0.00	0.00
(Fr.54) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.80	7.80	0.20	2.50	0.20	2.50
(Fr.54) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.40	10.55	0.10	0.95	0.00	0.00
(Fr.55) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.55	6.85	0.00	0.00	0.00	0.00
(Fr.55) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	8.10	7.40	0.00	0.00	0.60	7.50
(Fr.55) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							10.50	10.50	2.10	10.35	10.55	0.15	1.43	0.00	0.00
Operator	P. Wncior / T. Lampka											RINA Surveyor						A. Miller									

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																			Sheet	9	of	15							
CARGO HOLD N°.		Side Shell Frame 56, 57 & 58 (Sketch 11)																													
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART												
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution							
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	[mm]	[mm]	[mm]	[mm]		
(Fr.56) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	7.35	7.30	0.00	0.00	0.00	0.00			
(Fr.56) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00								8.00	8.00	2.00	7.80	7.80	0.20	2.50	0.20	2.50			
(Fr.56) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								10.50	10.50	2.10	10.65	10.70	0.00	0.00	0.00	0.00			
(Fr.57) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	7.10	7.25	0.00	0.00	0.00	0.00			
(Fr.57) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00								8.00	8.00	2.00	7.50	8.30	0.50	6.25	0.00	0.00			
(Fr.57) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								10.50	10.50	2.10	10.70	10.65	0.00	0.00	0.00	0.00			
(Fr.58) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	7.55	7.42	0.00	0.00	0.00	0.00			
(Fr.58) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00								8.00	8.00	2.00	7.30	8.10	0.70	8.75	0.00	0.00			
(Fr.58) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								12.00	12.00	2.40	11.50	11.75	0.50	4.17	0.25	2.08			
Operator	P. Wncior / T. Lampka											RINA Surveyor									A. Miller										

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM7

Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																		Sheet		10	of	15			
CARGO HOLD N°.		Side Shell Frame 59, 60 & 61 (Sketch 11)																									
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART								
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	P	S
(Fr.59) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	6.80	7.05	0.00	0.00	0.00	0.00
(Fr.59) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.30	8.90	0.70	8.75	0.00	0.00
(Fr.59) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	10.70	11.60	1.30	10.83	0.40	3.33
(Fr.60) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.45	7.60	0.00	0.00	0.00	0.00
(Fr.60) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.90	7.90	0.10	1.25	0.10	1.25
(Fr.60) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	11.50	11.70	0.50	4.17	0.30	2.50
(Fr.61) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	6.95	6.85	0.00	0.00	0.00	0.00
(Fr.61) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	8.10	8.00	0.00	0.00	0.00	0.00
(Fr.61) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	11.55	11.50	0.45	3.75	0.50	4.17
Operator	P. Wncior / T. Lampka											RINA Surveyor						A. Miller									

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB}.

* If t_{RULE} = t_{AB}, only fill t_{AB}.



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Thickness Measurement Report - TM7

Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																		Sheet		11	of	15			
CARGO HOLD N°.		Side Shell Frame 62, 63 & 64 (Sketch 11)																									
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART								
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	P	S
(Fr.62) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.45	7.17	0.00	0.00	0.00	0.00
(Fr.62) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.80	8.20	0.20	2.50	0.00	0.00
(Fr.62) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	11.25	11.75	0.75	6.25	0.25	2.08
(Fr.63) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	6.65	7.05	0.00	0.00	0.00	0.00
(Fr.63) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.10	7.50	0.90	11.25	0.50	6.25
(Fr.63) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	11.25	11.45	0.75	6.25	0.55	4.58
(Fr.64) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.45	7.38	0.00	0.00	0.00	0.00
(Fr.64) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.70	8.00	0.30	3.75	0.00	0.00
(Fr.64) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	11.45	11.75	0.55	4.58	0.25	2.08
Operator	P. Wncior / T. Lampka											RINA Surveyor							A. Miller								

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Thickness Measurement Report - TM7

Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																	Sheet		12	of	15				
CARGO HOLD N°.		Side Shell Frame 65, 66 & 67 (Sketch 11)																									
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART								
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution			
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	P	S
(Fr.65) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	8.35		0.00	0.00		
(Fr.65) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	6.40		1.60	20.00		
(Fr.65) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	11.15		0.85	7.08		
(Fr.66) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.60	7.35	0.00	0.00	0.00	0.00
(Fr.66) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.50	7.50	0.50	6.25	0.50	6.25
(Fr.66) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	12.65	11.70	0.00	0.00	0.30	2.50
(Fr.67) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	6.50	6.55	0.00	0.00	0.00	0.00
(Fr.67) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.60	8.00	0.40	5.00	0.00	0.00
(Fr.67) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	12.45	12.40	0.00	0.00	0.00	0.00
Operator	P. Wncior / T. Lampka											RINA Surveyor						A. Miller									

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																			Sheet		13	of	15								
CARGO HOLD N°.		Side Shell Frame 68, 69 & 70 (Sketch 11)																															
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART														
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution									
	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	P	S	P	S	P	S	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
(Fr.68) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.47	7.35	0.00	0.00	0.00	0.00						
(Fr.68) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	8.10	7.60	0.00	0.00	0.40	5.00						
(Fr.68) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	12.60	12.55	0.00	0.00	0.00	0.00						
(Fr.69) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.20	6.80	0.00	0.00	0.00	0.00						
(Fr.69) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.90	7.80	0.10	1.25	0.20	2.50						
(Fr.69) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							12.00	12.00	2.40	12.50	12.65	0.00	0.00	0.00	0.00						
(Fr.70) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.45	7.52	0.00	0.00	0.00	0.00						
(Fr.70) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.50	7.80	0.50	6.25	0.20	2.50						
(Fr.70) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							13.50	13.50	2.70	12.70	12.70	0.80	5.93	0.80	5.93						
Operator	P. Wncior / T. Lampka											RINA Surveyor						A. Miller															

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																													
Ship's name and RINA number											Alva, RI: 90377											Sheet	14	of	15				
CARGO HOLD N°.											Side Shell Frame 71, 72 & 73 (Sketch 11)																		
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART										
	Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution				Original thickn.	Rule thickn.*	Max. alwb. dim.	Gauged thickness		Diminution					
				P	S	P	S	P	S				P	S	P	S	P	S				P	S						
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
(Fr.71) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	7.20	7.15	0.00	0.00	0.00	0.00	
(Fr.71) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00								8.00	8.00	2.00	8.00	6.80	0.00	0.00	1.20	15.00	
(Fr.71) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								13.50	13.50	2.70	12.60	12.80	0.90	6.67	0.70	5.19	
(Fr.72) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	7.30	7.07	0.00	0.00	0.00	0.00	
(Fr.72) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00								8.00	8.00	2.00	7.30	7.50	0.70	8.75	0.50	6.25	
(Fr.72) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								13.50	13.50	2.70	12.95	13.05	0.55	4.07	0.45	3.33	
(Fr.73) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00								6.50	6.50	1.62	7.05	7.25	0.00	0.00	0.00	0.00	
(Fr.73) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00								8.00	8.00	2.00	7.80	7.00	0.20	2.50	1.00	12.50	
(Fr.73) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00								13.50	13.50	2.70	12.65	12.80	0.85	6.30	0.70	5.19	
Operator		P. Wncior / T. Lampka										RINA Surveyor										A. Miller							

* Rule thickness t_{RULE} is used for calculations. If not available, it is assumed equal to original thickness t_{AB} .* If $t_{RULE} = t_{AB}$, only fill t_{AB} .



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Ship's name and RINA number		THICKNESS MEASUREMENT OF CARGO HOLD TRANSVERSE FRAMES																		Sheet		15	of	15			
CARGO HOLD N°.		Side Shell Frame 74 & 75 (Sketch 11)																									
FRAME NUMBER/ Item	UPPERT PART									MID PART									LOWER PART								
	Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution				Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution				Original thickn. [mm]	Rule thickn.* [mm]	Max. alwb. dim. [mm]	Gauged thickness		Diminution			
				P [mm]	S [mm]	P [mm]	S [%]	P [mm]	S [%]				P [mm]	S [%]	P [mm]	S [%]	P [mm]	S [%]				P [mm]	S [%]	P [mm]	S [%]		
(Fr.74) x1-x4 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.35	7.70	0.00	0.00	0.00	0.00
(Fr.74) 5 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.50	7.70	0.50	6.25	0.30	3.75
(Fr.74) 6,7 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							13.50	13.50	2.70	13.10	13.30	0.40	2.96	0.20	1.48
(Fr.75) x1,x3 Side shell frame, web	0.00	0.00	0.00							0.00	0.00	0.00							6.50	6.50	1.62	7.20	6.70	0.00	0.00	0.00	0.00
(Fr.75) 2 Side shell frame, flange	0.00	0.00	0.00							0.00	0.00	0.00							8.00	8.00	2.00	7.30	8.20	0.70	8.75	0.00	0.00
(Fr.75) 4,5 Side shell plating	0.00	0.00	0.00							0.00	0.00	0.00							13.50	13.50	2.70	13.35	13.15	0.15	1.11	0.35	2.59
Operator	P. Wncior / T. Lampla											RINA Surveyor						A. Miler									

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