



DUNAV SRL

CONSTRUCTII SI REPARATII NAVE

BRAILA, Str. Vadul Rizeriei, nr.4, 810112, Tel.:0239-613862
J1994000788099, C.U.I. RO6074082, office@dunav.ro, www.dunav.ro

Nr. 1196/15.09.2025

BULETIN CONTROL CU ULTRASUNETE

A.Date generale:

1. Tipul si denumirea navei: *BARZA 1659*
2. Beneficiarul: *JANUSTRANS S.R.L.*
3. Material examinat: Tabla navala tip A

B.Conditii de executare a examinarii:

1. Aparat folosit: ECHOMETER 1076TC – KARL DEUTSCH
2. Domeniul de lucru: < 500 mm
3. Frecventa: 5MHz
4. Cuplant: Vaselina
5. Domeniu de lucru: Mediu ambiant

C.Metoda de masurare si citire :

1. Masurare prin impuls reflectat
2. Citire grosimi prin citire direct a pe ecranul aparatului.

D.Masuratorile s-au executat conform :

1. Norma tehnica ANR cod, MT.RNR – NT 11/2 – 99
2. Procedura operational cod IT -16 „Masurarea grosimii cu ultrasunete”

E.Observatii:

1. Schita cu indicarea punctelor in care s-au efectuat masuratorile de grosime si valorile obtinute sunt anexate prezentului buletin .
2. S-au executat 200 masuratori cu nava pe doc nr. 5879 la S.C.Dunav S.R.L. Braila.

	Nume si prenume	Nr./nivel/valabilitate Autorizatie ANR	Semnatura
Operator UTg si sef laborator examinari nedistructive	SPINU CRISTIAN- COSTEL	2255 25.07.2022– 24.07.2027	



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Raport de masuratori grosimi tabla cu Ultrason nr. 1196/15.09.2025

Denumire nava: Barja 1659

TABLE CORP																				
Pozitie tabla	Nr. si litera	Grosime cf. plan original	Citire pupa								Citire prova								Medie	
			Citire aparat (mm)				Diminuare Bb		Diminuare Tb		Citire aparat (mm)				Diminuare Bb		Diminuare Tb		Diminuare	
																			%	
			Bb		Tb		mm	%	mm	%	Bb		Tb		mm	%	mm	%	Bb	Tb
1	A1	6	5.7		5.7		-0.3	-5.0	-0.3	-5.0	6.1		6.1		0.1	2.0	0.1	2.0	-1.5	-1.5
2	A2	6	6.1		6.1		0.1	2.0	0.1	2.0	6.0		6.0		0.0	0.0	0.0	0.0	1.0	1.0
3	A3	6	5.9		6.0		-0.1	-2.0	0.0	0.0	6.0		5.9		0.0	0.0	-0.1	-2.0	-1.0	-1.0
4	A4	6	6.1		5.9		0.1	2.0	-0.1	-2.0	6.1		6.1		0.1	2.0	0.1	2.0	2.0	0.0
5	A5	6	5.8		5.9		-0.2	-3.0	-0.1	-2.0					-6.0		-6.0		-1.5	-1.0
6	A6	6					-6.0		-6.0		5.3		5.1		-0.7	-12.0	-0.9	-15.0	-6.0	-7.5
7	B1	6	5.7		5.4		-0.3	-5.0	-0.6	-10.0	6.1		6.1		0.1	2.0	0.1	2.0	-1.5	-4.0
8	B2	6	5.9		6.0		-0.1	-2.0	0.0	0.0	5.9		5.9		-0.1	-2.0	-0.1	-2.0	-2.0	-1.0
9	B3	6	6.0		5.9		0.0	0.0	-0.1	-2.0	6.0		6.0		0.0	0.0	0.0	0.0	0.0	-1.0
10	B4	6	5.9		6.0		-0.1	-2.0	0.0	0.0	5.9		6.0		-0.1	-2.0	0.0	0.0	-2.0	0.0
11	B5	6	6.1		5.9		0.1	2.0	-0.1	-2.0					-6.0		-6.0		1.0	-1.0
12	B6	6					-6.0		-6.0		5.2		5.5		-0.8	-13.0	-0.5	-8.0	-6.5	-4.0
13	C1	6	5.6		5.5		-0.4	-7.0	-0.5	-8.0	6.0		6.0		0.0	0.0	0.0	0.0	-3.5	-4.0
14	C2	6	5.9		6.0		-0.1	-2.0	0.0	0.0	6.0		6.0		0.0	0.0	0.0	0.0	-1.0	0.0
15	C3	6	6.0		6.0		0.0	0.0	0.0	0.0	5.9		5.9		-0.1	-2.0	-0.1	-2.0	-1.0	-1.0
16	C4	6	5.9		5.9		-0.1	-2.0	-0.1	-2.0	5.9		6.0		-0.1	-2.0	0.0	0.0	-2.0	-1.0
17	C5	6	6.0		5.9		0.0	0.0	-0.1	-2.0					-6.0		-6.0		0.0	-1.0
18	C6	6					-6.0		-6.0		5.3		5.4		-0.7	-12.0	-0.6	-10.0	-6.0	-5.0
19	D1	6	7.3		5.6		1.3	22.0	-0.4	-7.0	6.7		5.8		0.7	12.0	-0.2	-3.0	17.0	-5.0
20	D2	6	5.9		6.5		-0.1	-2.0	0.5	8.0	6.1		6.6		0.1	2.0	0.6	10.0	0.0	9.0
21	D3	6	6.4		6.5		0.4	7.0	0.5	8.0	6.7		5.8		0.7	12.0	-0.2	-3.0	9.5	2.5
22	D4	6	6.5		6.0		0.5	8.0	0.0	0.0	6.9		6.4		0.9	15.0	0.4	7.0	11.5	3.5
23	D5	6	6.7		6.3		0.7	12.0	0.3	5.0					-6.0		-6.0		6.0	2.5
24	D6	6					-6.0		-6.0		6.0		6.3		0.0	0.0	0.3	5.0	0.0	2.5
25	E1	6	5.7		5.7		-0.3	-5.0	-0.3	-5.0	5.5		5.7		-0.5	-8.0	-0.3	-5.0	-6.5	-5.0
26	E2	6	5.9		5.9		-0.1	-2.0	-0.1	-2.0	5.9		5.7		-0.1	-2.0	-0.3	-5.0	-2.0	-3.5
27	E3	6	5.8		5.9		-0.2	-3.0	-0.1	-2.0	5.8		5.8		-0.2	-3.0	-0.2	-3.0	-3.0	-2.5
28	E4	6	5.8		5.9		-0.2	-3.0	-0.1	-2.0	5.7		5.9		-0.3	-5.0	-0.1	-2.0	-4.0	-2.0
29	E5	6	5.7		5.7		-0.3	-5.0	-0.3	-5.0	5.8		5.7		-0.2	-3.0	-0.3	-5.0	-4.0	-5.0
30	E6	6	5.2		5.7		-0.8	-13.0	-0.3	-5.0	5.8		5.3		-0.2	-3.0	-0.7	-12.0	-8.0	-8.5

CALCUL GROSIME MINIMA CONFORM OMT 1472/2018

Grosimea minima tmin pentru navele construite din otel este data de cea mai mare dintre valorile care rezulta din formulele :

$$t_{min} = f \times b \times c \times (1,5 + 0,06L) \text{ (mm)}$$

Grosime calculata pentru fund si bordaj este:

$$t_{min} = 1 \times 1 \times 1 \times (1,5 + 0,06 \times 50) = 4,5 \text{ mm}$$

Grosime calculata pentru gurna este:

$$t_{min} = 1 \times 1,25 \times 1 \times (1,5 + 0,06 \times 50)$$

$$t_{min} = 5,25 \text{ mm}$$

$$t_{min} = 0,005 \times a \times \sqrt{t} \text{ [mm]}$$

$$t_{min} = 0,005 \times 500 \times \sqrt{1,80}$$

$$t_{min} = 3,35 \text{ mm}$$

Se ia valoarea cea mai mare , valoare care nu poate fi mai mica de 3mm.

Intocmit		Beneficiar	Inspector ANR
Nume si prenume			
Semnatura si stampila			

DEFASURATA TABLE FUND SI BORDAJE LA NAVA : Barja 1659

Anexa la "Buletin de masuratori grosimi table prin metoda UTg nr. 1196 /15.09.2025

Beneficiar : Danubtrans S.R.L.

BB

5.7	⑥ E1	5.5 5.9	⑥ E2	5.9 5.8	⑥ E3	5.8 5.8	⑥ E4	5.7 5.7	⑥ E5	5.8 5.2	⑥ E6	5.8
7.3	⑥ D1	6.7 5.9	⑥ D2	6.1 6.4	⑥ D3	6.7 6.5	⑥ D4	6.9 6.7	⑥ D5		⑥ D6	6.0
5.6	⑥ C1	6.0 5.9	⑥ C2	6.0 6.0	⑥ C3	5.9 5.9	⑥ C4	5.9 6.0	⑥ C5		⑥ C6	5.3
5.7	⑥ B1	6.1 5.9	⑥ B2	5.9 6.0	⑥ B3	6.0 5.9	⑥ B4	5.9 6.1	⑥ B5		⑥ B6	5.2
5.7	⑥ A1	6.1 6.1	⑥ A2	6.0 5.9	⑥ A3	6.0 6.1	⑥ A4	6.1 5.8	⑥ A5		⑥ A6	5.3
5.7	⑥ B1	6.1 6.0	⑥ B2	5.9 5.9	⑥ B3	6.0 6.0	⑥ B4	6.0 5.9	⑥ B5		⑥ B6	5.5
5.5	⑥ C1	6.0 6.0	⑥ C2	6.0 6.0	⑥ C3	5.9 5.9	⑥ C4	6.0 5.9	⑥ C5		⑥ C6	5.4
5.6	⑥ D1	5.8 6.5	⑥ D2	6.6 6.5	⑥ D3	5.8 6.0	⑥ D4	6.4 6.3	⑥ D5		⑥ D6	6.3
5.7	⑥ E1	5.7 5.9	⑥ E2	5.7 5.9	⑥ E3	5.8 5.9	⑥ E4	5.9 5.7	⑥ E5	5.7 5.7	⑥ E6	5.3

Pp

Pv

Intocmit: SPINU COSTE

Numar legitimatie: 2255

TB



○ - Masuratori initiale



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