

Marinox



Marinox d.o.o. osnovan je 2001. g. kao veleprodaja nehrđajućeg materijala. Nudimo Vam široki asortiman cijevi, limova, profila, armature, fittinga, spojnice, pumpi, brtvi kao i kompletnu opremu za Vaše procesno postrojenje. Dugogodišnje iskustvo zaposlenih i stručna izobrazba uvijek su Vam na raspolaganju. Mladi tim, konkurentna cijena, brzina isporuke i fleksibilnost je prednost Marinox-a i Vaša garancija za uspjeh. Kao dio Ecor grupacije sposobni smo odgovoriti na najzahtjevnije upite te brzo i povoljno riješiti Vas problema oko dobave materijala.

Marinox is established in December 2001 as a wholesaler of stainless steel material. We can offer wide range of tubes, sheets, coils, profiles, valves, fittings, pumps and all equipment for process industry. Well educated staff is always on your disposal. During years Marinox is recognized as a flexible, fast and reliable partner. As a part of Ecorgroup we are capable to respond on highest demands and supply you very quickly with all requested material.

ISKUSTVO, PROFESIONALNOST I STRUČNOST

Od 1976. ECOR se trudi kako bi neprestano bio na visini sve zahtjevnijih potreba brojnih klijenata iz najrazličitih djelatnosti.

Snaga ECORA leži u dostupnosti brojnih raznovrsnih proizvoda na skladištu: šavne i bešavne cijevi, limovi i trake, prirubnice, plinski navojni fittingi te fittingi za prehrambenu industriju, profili za namještaj, šuplje šipke, konstrukcijski čelici i razni dodaci od nehrđajućeg čelika.

Postoje četiri raspoložive velike kategorije u katalogu: šipke, cijevi, limovi i konstrukcijski čelici.

Uz veliki izbor fittinga, sve su kategorije raspoložive u realnom vremenu kako bi zadovoljile sve vrste zahtjeva.

EXPERIENCE, PROFESSIONALISM AND EXPERTISE

Since 1976 ECOR strives to continuously meet the increasingly demanding needs of numerous clients from various business fields.

The strength of ECOR lies in the availability in stock of numerous varied products: welded and seamless tubes, metal sheets and bars, flanges, gas threaded fittings and fittings for the food industry, furniture profiles, hollow bars, structural steels and various stainless steel accessories.

There are four major categories available in the catalogue: rods, tubes, metal sheets and structural steels.

With a large selection of fittings, all categories are available in real time in order to meet all types of demands.

Usporedna tablica prema standardima AISI-UNI-Wnr.N Comparison table acc. to standards AISI-UNI-Wnr.N

VRSTA NEHRĐAJUĆEG ČELIKA STAINLESS STEEL MATERIAL			KEMIJSKI SASTAV U % CHEMICAL ANALYSIS									MEHANIČKA SVOJSTVA MATERIJALA PRI SOBNOJ TEMPERATURI MECHANICAL PROPERTIES OF THE MATERIAL AT ROOM TEMPERATURE							
AISI	UNI	Werkstoff N°	C _{max}	Mn _{max}	P _{max}	S _{max}	Si _{max}	Cr	Ni	Mo	Drugi elementi Other elements	Tvrdoća po Rockwellu HRB Hardness acc. Rockwell HRB	Vlačna čvrstoća Tensile strength kg/mm ²	Granica napuštanja Yield stress kg/mm ²	Izduženje Elongation Z %	Scratch test po Erchen-u Scratch test acc. to Erchen mm	Temperaturna odornost Heat resistance °C	Zavarivost Weldness	Mehaničko oblikovanje Mechanical forming
201		1.4372	0,15	5,5-7,5	0,045	0,015	1	16-18	3,5-5,5	-	N=0,05-0,25								
202		1.4373	0,15	7,5-10,5	0,045	0,015	1	17-19	4-6	-	N=0,05-0,25								
301	X 12 CrNi 1707	1.4310	0,05-0,15	2	0,045	0,015	2	16-19	6-9,5	0,8 max	N≤0,11	75-85	63-77	25-35	65-55	10-14	898	vrlo dobro, very good	dobro, good
302	X 8 CrNi 1910 X 10 CrNi 1809	1.4319	0,15	2	0,045	0,030	1	17-19	8-10	-		70-90	53-70	21-38	60-50	10-14	898	vrlo dobro, very good	dobro, good
303	X 10 CrNiS 1809	1.4305	0,10	2	0,045	0,15-0,35	1	17-19	8-10	-	N≤0,11;Cu≤1	70-90	53-70	21-38	60-50		898	nedovoljno dobro, not good enough	nedovoljno dobro, not good enough
304	X 5 CrNi 1810	1.4301	0,07	2	0,045	0,015	1	17-19,5	8-10,5	-	N≤0,11	70-90	49-67	17-35	65-50	10-14	926	vrlo dobro, very good	vrlo dobro, very good
304 LN	X 2 CrNiN 1811	1.4311	0,03	2	0,045	0,015	1	17-19,5	8,5-11,5	-	N=0,12-0,22								
304 H	X 8 CrNi 1910	1.4948	0,04-0,08	2	0,035	0,015	1	17-19	8-11	-	N≤0,11								
304 L		1.4307	0,03	2	0,045	0,015	1	17,5-19,5	8-10	-	N≤0,11	70-85	49-56	17-32	65-50	10-14	926	vrlo dobro, very good	vrlo dobro, very good
304 L	X 2 CrNi 1811	1.4306	0,03	2	0,045	0,015	1	18-20	10-12	-	N≤0,11	70-85	49-56	17-32	65-50	10-14	926	vrlo dobro, very good	vrlo dobro, very good
305	X 8 CrNi 1812	1.4303	0,06	2	0,045	0,015	1	17-19	11-13	-	N≤0,11	70-90	49-63	17-32	55-45		900	vrlo dobro, very good	vrlo dobro, very good
	X 16 CrNi 2314	1.4828	0,20	2	0,045	0,015	1,5-2,5	19-21	11-13	-	N≤0,11								
309/ 309 S	X 6 CrNi 2314	1.4833	0,15	2	0,045	0,015	1	22-24	12-14	-	N≤0,11	70-85	53-67	25-38	55-40		1093	dobra, good	dobro, good
310	X22 CrNi 2520	1.4845	0,25	2	0,045	0,030	1,5	24-26	19-22	-	-	70-85	53-67	25-38	55-40		1120	dobra, good	dobro, good
310 S	X 6 CrNi 2520	1.4845 1.4842	0,10	2	0,045	0,015	1,5	24-26	19-22	-	N≤0,11								
314	X 16 CrNiSi 2520	1.4841	0,20	2	0,045	0,015	1,5-2,5	24-26	19-22	-	N≤0,11								
316	X 5 CrNiMo 1712	1.4401	0,07	2	0,045	0,015	1	16,5-18,5	10-13	2-2,5	N≤0,11	70-85	53-63	21-42	60-45	10-14	926	vrlo dobro, very good	dobro, good
316	X 5 CrNiMo 1713	1.4436	0,05	2	0,045	0,015	1	16,5-18,5	10,5-13	2,5-3	N≤0,11	70-85	53-63	21-42	60-45	10-14	926	vrlo dobro, very good	dobro, good
316 F		1.4427	0,08	2	0,200	0,10 min	1	16-18	10-14	1,75-2,5									
316 N			0,08	2	0,045	0,030	1	16-18	10-14	2-3	N=0,10-0,16								
316 H	X 8 CrNiMo 1712		0,04-0,10	2	0,030	0,030	0,75	16-18	11-13,5	2-2,5									
316 H	X 8 CrNiMo 1713		0,04-0,10	2	0,030	0,030	0,75	16-18	11-14	2,5-3									
316 L	X 2 CrNiMo 1712	1.4404	0,03	2	0,045	0,015	1	16,5-18,5	10-13	2-2,5	N≤0,11	70-85	49-60	17-38	65-45	10-14	926	vrlo dobro, very good	dobro, good
316 L	X 2 CrNiMo 1713	1.4435	0,03	2	0,045	0,015	1	17-19	12,5-15	2,5-3	N≤0,11	70-85	49-60	17-38	65-45	10-14	926	vrlo dobro, very good	dobro, good
316 L	X 2 CrNiMo 1713	1.4432	0,03	2	0,045	0,015	1	16,5-18,5	10,5-13	2,5-3	N≤0,11	70-85	49-60	17-38	65-45	10-14	926	vrlo dobro, very good	dobro, good
316 LN	X 2 CrNiMoN 1712	1.4406	0,03	2	0,045	0,015	1	16,5-18,5	10-12	2-2,5	N=0,12-0,22								
316 LN	X 2 CrNiMoN 1713	1.4429	0,03	2	0,045	0,015	1	16,5-18,5	11-14	2,5-3	N=0,12-0,22								
316 Ti	X 6 CrNiMoTi 1712	1.4571	0,08	2	0,045	0,015	1	16,5-18,5	10,5-13,5	2-2,5	Ti=5 x C min; 0,7 max	70-85	50-75	25 min	40 min	10-14	926	dobra, good	dobro, good
316 Ti	X 6 CrNiMoTi 1713	1.4573	0,08	2	0,045	0,030	1	16-18,5	11,5-14,5	2,5-3	Ti=5 x C min; 0,8 max	70-85	50-75	25 min	40 min	10-14	926	dobra good	dobro, good
316 Cb	X 6 CrNiMoNb 1712	1.4580	0,08	2	0,045	0,015	1	16,5-18,5	10,5-13,5	2-2,5	Nb=10 x C min; 1 max								
316 Cb	X 6 CrNiMoNb 1713	1.4583	0,08	2	0,045	0,030	1	16-18,5	11,5-14,5	2,5-3	Nb+Ta=10 x C min; 1 max								
317	X 5 CrNiMo 1815		0,08	2	0,045	0,030	1	18-20	11-15	3-4									
317 L	X 2 CrNiMo 1815 X 2 CrNiMo 1816	1.4438	0,03	2	0,045	0,015	1	17,5-19,5	13-16	3-4	N≤0,11								
317 LN		1.4434	0,03	2	0,045	0,015	1	18,5-19,5	10,5-14	3-4	N=0,10-0,20								
321	X 6 CrNiTi 1811	1.4541	0,08	2	0,045	0,015	1	17-19	9-12	-	Ti=5 x C min; 0,7 max	70-90	53-67	21-38	60-45	10-14	898	vrlo dobro, very good	dobro, good
321 H	X 8 CrNiTi 1811	1.4878 1.4941	0,10	2	0,045	0,030	1	17-19	9-12	-	Ti=5 x C min; 0,8 max								

Usporedna tablica prema standardima AISI-UNI-Wnr.N Comparison table acc. to standards AISI-UNI-Wnr.N

VRSTA NEHRDAJUĆEG ČELIKA STAINLESS STEEL MATERIAL			KEMIJSKI SASTAV U % CHEMICAL ANALYSIS									MEHANIČKA SVOJSTVA MATERIJALA PRI SOBNOJ TEMPERATURI MECHANICAL PROPERTIES OF THE MATERIAL AT ROOM TEMPERATURE							
AISI	UNI	Werkstoff N°	C _{max}	Mn _{max}	P _{max}	S _{max}	Si _{max}	Cr	Ni	Mo	Drugi elementi Other elements	Tvrdoća po Rockwellu HRB Hardness acc. Rockwell HBB	Vlačna čvrstoća Tensile strength kg/mm ²	Granica napuštanja Yield stress kg/mm ²	Izduženje Elongation Z %	Scratch test po Erchenju Scratch test acc. to Erchen mm	Temperaturna opornost Heat resistance °C	Zavarivost Weldness	Mehaničko oblikovanje Mechanical forming
347	X 6 CrNiNb 1811	1.4550	0,08	2	0,045	0,015	1	17-19	9-12	-	Nb= 10 x C min; 1 max	70-90	53-67	21-38	60-40	10-14	926	vrlo dobro, very good	dobro, good
347 H	X 8 CrNiNb 1811		0,04-0,10	2	0,030	0,030	0,75	17-19	9-13	-	Nb+Ta=10 x C min; 1 max								
		1.4539	0,02	2	0,030	0,010	0,70	19-21	24-26	4-5	N≤0,15;Cu=1,2-2								
329		1.4460	0,05	2	0,035	0,015	1	25-28	4,5-6,5	1,3-2	0,05≤N≤0,20								
		1.4462	0,03	2	0,035	0,015	1	21-23	4,5-6,5	2,5-3,5	0,10≤N≤0,22								
		1.4410	0,03	2	0,035	0,015	1	24-26	6-8	3-4,5	0,2≤N≤0,35								
405	X 6 CrAl 13	1.4002	0,08	1	0,040	0,015	1	12-14			0,10≤Al≤0,30	70-85	42-53	28-39	30-20		704	dobra, good	dobro, good
409	X 2 CrTi 12	1.4512	0,03	1	0,040	0,015	1	10,5-12,5		-	6 x (C+N)≤Ti≤0,65								
	X 6 CrTi 12																		
410 S	X 6 Cr 13	1.4000	0,08	1	0,040	0,015	1	12-14		-									
	X 12 Cr 13																		
430	X 8 Cr 17	1.4016	0,08	1	0,040	0,015	1	16-18		-		75-90	45-60	28-45	30-20		842	slabo, poor	nedovoljno dobro, not good enough
430 F	X 10 Cr S 17	1.4105	0,08	1,5	0,040	0,15-0,35	1,5	16-18		0,20-0,60			49-63	28-38	30-20		815	loše, bad	nedovoljno dobro, not good enough
	X 6 CrNb 17	1.4511	0,05	1	0,040	0,015	1	16-18		-	12 x C≤Nb≤1								
434	X 8 CrMo 17	1.4113	0,08	1	0,040	0,015	1	16-18		0,90-1,40									
439	X 6 CrTi 17	1.4510	0,05	1	0,040	0,015	1	16-18			4 x (C+N)+0,15≤Ti≤0,8								
446	X 16 Cr 26	1.4749	0,15-0,20	1	0,040	0,015	1	26-29		-	0,15≤N≤0,25	75-90	52-60	31-42	30-20		1036	slabo, poor	slabo, poor
		1.4713	0,12	1	0,040	0,015	0,5-1	6-8		-	0,5≤Al≤1								
	X 10 Cr Al 12	1.4724	0,12	1	0,040	0,015	0,7-1,4	12-14			0,70≤Al≤1,2								
		1.4762	0,12	1	0,040	0,015	0,7-1,4	23-26		-	1,2≤Al≤1,7								
410	X 12 Cr 13	1.4006	0,08-0,15	1,5	0,040	0,015	1	11,5-13,5	0,75 max	-		75-85	45-88	24-60	35-20			slabo, poor	nedovoljno dobro, not good enough
403																			
420	X 20 Cr 13	1.4021	0,16-0,25	1,5	0,040	0,015	1	12-14		-			66-77	35-50	25-20		648	vrlo dobro, very good	osrednje, medium
420	X 30 Cr 13	1.4028	0,26-0,35	1,5	0,040	0,015	1	12-14		-									
420	-	1.4031	0,36-0,42	1	0,040	0,015	1	12,5-14,5											
420	X 40 Cr 14	1.4034	0,43-0,50	1	0,040	0,015	1	12,5-14,5											
420 F			0,15 min	1,25	0,060	0,15 min	1	12-14		0,6 max									
422		1.4935	0,20-0,25	1	0,025	0,025	0,75	11-13	0,5-1	0,75-1,25	0,15≤V≤0,30; 0,75≤W≤1,25								
	X 10 Cr S 17	1.4104	0,10-0,17	1,5	0,040	0,15-0,35	1	15,5-17,5		0,20-0,60			84-92	66-80	25-15		815	vrlo dobro, very good	ne preporuča se, not recommended
431	X 16 CrNi 16	1.4057 1.4112	0,12-0,22 0,85-0,95	1,5 1	0,040 0,040	0,015 0,015	1 1	15-17 17-19	1,5-2,5	- 0,90-1,30	0,07≤V≤0,12								
440 C		1.4125	0,95-1,20	1	0,040	0,015	1	16-18		0,40-0,80			77-88	45-516	15-10		760	ne preporuča se, not recommended	ne preporuča se, not recommended
	X 45 CrSi 8	1.4718	0,40-0,50	0,6	0,040	0,030	2,7-3,3	8-10	0,5 max	-									
		1.4731	0,35-0,45	0,8	0,040	0,030	2-3	9,5-11,5	0,5 max	0,80-1,30									
	X 80 CrSiNi 20	1.4747	0,75-0,85	0,8	0,040	0,030	1,75-2,5	19-21	1-1,7	-									
	X 85 CrMoV 193	1.4748	0,80-0,90	1,5	0,040	0,030	1	16,5-18,5		2-2,5	0,3≤V≤0,6								
	X 53 CrMnNiN 219	1.4871	0,48-0,58	8-10	0,045	0,030	0,25	20-22	3,25-4,5	-	0,35≤N≤0,5								
	X 45 CrNiW 189	1.4873	0,4-0,5	0,8-1,5	0,045	0,030	2-3	17-19	8-10	-	0,8≤W≤1,2								
	X 70 CrMnNiN 216	1.4881	0,65-0,75	5,5-7	0,050	0,02-0,06	0,8	20-22	1,4-1,9	-	0,18≤N≤0,28								

Vrijednosti korozije – laboratorijska ispitivanja

Values of corrosion – laboratory research

Podaci navedeni u sljedećoj tablici označavaju otpornost na koroziju Vrsta 316, 304 i 430 u prisutnosti raznih kemijskih tvari. Rezultate treba uzeti u obzir samo kao pokazatelje njihovog ponašanja pri testiranju, a ne kao potpuno jamstvo njihovih performansi. Simboli koji su korišteni u tablici označavaju aproksimativnu otpornost na sljedeći način: **I** = Potpuno Otporan; **II** = Zadovoljavajuće Otporan; **III** = Dovoljno Otporan; **IV** = Malo Otporan; **V** = Neotporan.

The data listed in the following table indicates the corrosion resistance of Types 316, 304 and 430 in the presence of various chemical substances. The results should be considered only as indicators of their reaction during the test, not as a complete performance guarantee. Symbols used in the table indicate the approximate resistance as follows:

I = Completely resistant; **II** = Satisfactory resistant; **III** = Sufficiently resistant; **IV** = Slightly resistant; **V** = Non-resistant.

Agresivna tvar i njezino stanje; Aggressive substance and its state	Temperatura	Vrsta čelika		
	Temperature °C	316	304	430
Zasićeni aluminij acetat; Aluminium acetate, saturated	21 kipuće; boiling	I I	I I	- -
Olovov acetat 5%; Lead acetate 5%	kipuće; boiling	I	I	-
Bakrov acetat, zasićena otopina; Copper acetate, saturated solution	21	I	I	I
Natrijev acetat, vlažno; Sodium acetate, wet	21	I	*I	I
Acetilen; Acetylene	21	I	I	I
Ocat, mirno; Vinegar, non-stirred	21	I	I	I
Ocat, mućkano; Vinegar, stirred	21	I	I	I
Ocat, aerirano; Vinegar, aerated	21 toplo; warm	I I	I I	I -
Ocat (pare); Vinegar (fumes)	21	I	II	II
Aceton; Acetone	21	I	I	II
Aceton; Acetone	kipuće; boiling	I	I	-
Octena kiselina; Acetic acid				
5% mućkano; stirred	21	I	I	I
5% aerirano; aerated	21	I	I	I
5%	38	I	I	II
5%	82	I	I	IV
10% mućkano; stirred	21	I	I	I
10% aerirano; aerated	21	I	I	I
Octena kiselina; Acetic acid				
10%	38	I	I	-
10%	82	I	I	-
10%	kipuće; boiling	I	III	-
10%	16	I	I	I
15%	38	I	I	IV
15%	82	I	I	IV
15%	kipuće; boiling	I	III	-
20% mućkano; stirred	21	I	I	I
20% aerirano; aerated	21	I	I	I
20% aerirano; aerated	82	I	I	-
33%	21	I	I	III
33%	38	I	I	IV
33%	82	I	I	-
33%	kipuće; boiling	I	III	-
40%	82	I	I	-
50%	21	I	I	III
50%	kipuće; boiling	I	III	V
60%	16	I	I	III
60%	38	I	I	IV
60%	82	I	I	-
60%	kipuće; boiling	II	III	-
80%	21	I	I	III
80%	38	I	I	IV
80%	82	I	I	-
80%	kipuće; boiling	II	IV	-
90% aerirano; aerated	82	I	III	-
100%	21	I	I	I
100%	38	I	I	I
100%	82	I	I	III
100%	kipuće; boiling	II	III	-
100% 10.5 kg/cm ² tlaka; of pressure	204	III	V	-
Octena kiselina (pare); Acetic acid (fumes)				
30%	toplo; warm	II	III	-
100%	toplo; warm	III	V	-
Arsenska kiselina; Arsenic acid	66	I	I	-
Benzojeva kiselina; Benzoic acid	21	I	I	I
Borna kiselina; Boric acid				
5%	toplo ili hladno; warm or cold	I	I	I
zasićeno; saturated	kipuće; boiling	I	I	I
Bromidna kiselina; Hydrobromic acid				
sve koncentracije; all concentrations	toplo ili hladno; warm or cold	V	V	V
Maslačna kiselina; Butyric acid				
5%	21	I	I	I
5%	66	I	I	I
vodena otopina gustoće 0.964; Aqueous solution density 0.964	kipuće; boiling	I	I	I
Ugljična kiselina; Carbonic acid				
sve koncentracije; all concentrations	toplo ili hladno; warm or cold	I	I	I
Cijanovodična kiselina; Hydrocyanic acid	21	I	I	III
Limunska kiselina; Citric acid				
5% mirno; non-stirred	21	I	I	I
5% mirno; non-stirred	66	I	I	I
10%	21	I	I	I
10%	kipuće; boiling	I	II	-

Agresivna tvar i njezino stanje; Aggressive substance and its state	Temperatura	Vrsta čelika		
	Temperature °C	316	304	430
Limunska kiselina; Citric acid				
15%	21	I	I	-
15%	kipuće; boiling	I	II	II
25%	21	I	I	-
25%	kipuće; boiling	I	IV	-
50%	21	I	I	-
50%	kipuće; boiling	I	IV	-
koncentrat; concentrate	140	II	IV	-
5% - 3,16 kg/cm ² tlaka; of pressure	140	II	IV	-
Klorna kiselina; Chloric acid	21	IV	V	-
Klorna kiselina; Chloric acid				
sve koncentracije; all concentrations	21	V	V	V
Kloroctena kiselina; Chloroacetic acid	21	III	IV	V
Razrijeđena klorosulfonska kiselina; Diluted chlorosulphuric acid	21	V	V	V
Kromna kiselina; Chromic acid				
5% kemijski čista tvar; pure chemical substance	21	I	I	II
10% kemijski čista tvar; pure chemical substance	21	II	III	-
10% kemijski čista tvar; pure chemical substance	kipuće; boiling	II	III	IV
50% kemijski čista tvar; pure chemical substance	21	II	II	-
50% kemijski čista tvar; pure chemical substance	kipuće; boiling	-	III	-
komercijalno do 50 % (sadrži SO3); commercially up to 50 % (containing SO3)	21	I	I	-
komercijalno do 50 % (sadrži SO3); commercially up to 50 % (containing SO3)	kipuće; boiling	III	*IV	IV
Karbolna kiselina, kem. čista tvar +; Carboic acid, pure chem. substance +				
10% voda; water	kipuće; boiling	I	I	I
kemijski čista tvar; pure chemical substance	21	I	I	I
kemijski čista tvar (kipuće); pure chemical substance (boiling)	182	I	I	-
prirodan; natural	100	I	I	-
prirodan; natural	kipuće; boiling	I	I	-
Fluorovodična kiselina; Hydrofluoric acid				
sve koncentracije; all concentrations	toplo ili hladno; warm or cold	V	V	V
Mravlja kiselina; Formic acid				
5%	21	I	II	II
5%	66	I	II	II
10%	21	I	II	II
10%	kipuće; boiling	I	I	V
50%	21	I	II	II
50%	kipuće; boiling	I	I	V
90%	kipuće; boiling	I	I	-
100%	21	I	I	-
100%	kipuće; boiling	II	II	-
Fosfatna kiselina; Phosphoric acid				
1%	21	..I	..I	..I
1%	kipuće; boiling	I	I	-
1% - 3,16 kg/cm ² tlaka; of pressure	140	I	I	-
Fosfatna kiselina; Phosphoric acid				
5% mirno; non-stirred	21	I	I	I
5% mućkano; stirred	21	I	I	I
5% aerirano; aerated	21	I	I	I
10% mirno; non-stirred	21	I	I	I
10% mućkano; stirred	21	I	I	I
10% aerirano; aerated	21	I	I	I
10%	kipuće; boiling	I	I	II
25%	kipuće; boiling	II	I	II
45%	kipuće; boiling	II	II	III
50%	kipuće; boiling	II	II	II
80%	21	II	II	II
80%	110	III	V	V
85%	kipuće; boiling	III	V	V
Galska kiselina; Gallic acid				
5%	21	I	I	I
5%	66	I	I	I
zasićeno na 100 °C; saturated at 100 °C	kipuće; boiling	I	I	-
Mliječna kiselina; Lactic acid				
1%	21	I	I	I
1%	kipuće; boiling	I	I	II
5%	21	I	I	I
5%	66	I	II	II
5%	kipuće; boiling	I	II	II
10%	21	I	I	II
10%	66	I	II	-
10%	kipuće; boiling	I	II	V
koncentrirano; concentrated	21	I	I	-
koncentrirano; concentrated	kipuće; boiling	II	III	-
Jabučna kiselina; Malic acid				
toplo ili hladno; warm or cold	toplo ili hladno; warm or cold	I	I	I
Molibdenska kiselina 5%; Molybdic acid 5%	21	I	I	-

Vrijednosti korozije – laboratorijska ispitivanja

Values of corrosion – laboratory research

* Postoji mogućnost aktivacije ventila u području doticaja sa zrakom ili u procesu sušenja;
 ** Održavati lužnate otopine; *** Ne preporučuje se za nepomične kupelji.

- Može biti oštećen u prisutnosti sumporne kiseline;
- Može biti oštećen u prisutnosti klorovodične kiseline.

* There is a possibility of the valve being activated in contact with the air or during a drying process;

** Maintain alkaline solutions; *** Not recommended for stationary baths.

- Might be damaged if sulphuric acid is present;
- Might be damaged if hydrochloric acid is present.

Agresivna tvar i njezino stanje; Aggressive substance and its state	Temperatura	Vrsta čelika		
	Temperature °C	316	304	430
Klorovodična kiselina; Hydrochloric acid	21	V	V	V
Naftalensulfonska kiselina; Naphtalenesulfonic acid	21	I	I	-
Dušična kiselina; Nitric acid				
5%	21	I	I	I
kipuće; boiling		I	I	III
20%	21	I	I	I
40%	21	I	I	I
kipuće; boiling		I	I	II
50%	21	I	I	I
kipuće; boiling		I	I	II
65%	21	I	I	I
kipuće; boiling		II	II	II
koncentrirano; concentrated	21	I	I	I
koncentrirano; concentrated		II	II	III
koncentrirane pare; concentrated fumes	21	I	I	I
koncentrirane pare; concentrated fumes	43	I	I	I
koncentrirane pare; concentrated fumes	kipuće; boiling	IV	IV	IV
Dušična kiselina 5%; Nitrous acid 5%	21	I	I	I
Oleinska kiselina; Oleic acid	21	I	*I	*II
	149	I	*I	*II
	204	I	*I	-
Oksalna kiselina; Oxalic acid				
5%	21	I	I	I
kipuće; boiling		I	I	I
10%	21	I	I	II
kipuće; boiling		III	IV	V
25%	kipuće; boiling	III	IV	-
50%	kipuće; boiling	III	IV	-
Pikrinska kiselina; Picric acid	21	I	I	I
Pirogalol; Pyrogallol	toplo ili hladno; warm or cold	I	I	I
Fluorosilicijeva kiselina; Fluorosilicic acid	21	IV	V	-
Sumporna kiselina; Sulphuric acid				
5%	21	II	III	III
kipuće; boiling		III	V	V
10%	21	II	III	III
kipuće; boiling		IV	V	V
50%	21	III	IV	-
kipuće; boiling		IV	V	V
koncentrirano; concentrated	21	I	I	I
koncentrirano; concentrated		IV	IV	IV
koncentrirano; concentrated	149	V	V	V
pare; fumes	21	II	III	-
Zasićena sumporna kiselina; Saturated sulphurous acid	21	II	III	III
zasićeno; saturated 4,2 kg/cm ² tlaka; of pressure	121	II	III	III
zasićeno; saturated 4,9-8,8 kg/cm ² tlaka; of pressure	154	III	III	III
zasićeno; saturated 10,5 kg/cm ² tlaka; of pressure	190	III	III	III
Stearinska kiselina; Stearic acid	21	I	I	I
Taninska kiselina; Tannic acid	21	I	I	I
Vinska kiselina; Tartaric acid				
10%	66	I	II	I
10%	21	I	I	I
kipuće; boiling		I	I	II
kipuće; boiling		I	I	-
50%	kipuće; boiling	-	V	-
zasićeno na 100°C; saturated at 100°C				
Trikloroocetna kiselina; Trichloroacetic acid	21	IV	V	V
Mokraćna kiselina; Uric acid	21	I	I	-
Zasićena klorna voda; Saturated chlorine water	21	***II	***III	IV
Slatka voda; Freshwater	topla; warm	I	I	I
Voda od fermentiranog kupusa; Fermented cabbage water	21	I	V	-
Morska voda; Seawater	21	I	*I	*III
Kisela rudnička voda; Acid mine drainage	15	*I	*I	-
Terpentin; Turpentine	35	I	I	-
Etanol; Ethanol				
21	I	I	I	
kipuće; boiling		I	I	I
Metanol; Methanol				
21	I	I	I	
66	II	*III	III	
Rastaljeni aluminij; Molten aluminium	760	V	V	V
Škrob, vodena otopina; Starch, aqueous solution	21	I	I	-
Amonijak (suhi ili vlažan); Ammonia (dry or moist)				
sve koncentracije; all concentrations	21-100	I	I	I
Bezvodni amonijak; Anhydrous ammonia	od 427 na više; from 427 or about	V	V	V
Acetanhidrid; Acetic anhydride				
(90% anhidrid); (90% anhydride)	21	I	I	I
(90% anhidrid); (90% anhydride)	82	I	I	II
(90% anhidrid); (90% anhydride)	kipuće; boiling	I	I	III

Agresivna tvar i njezino stanje; Aggressive substance and its state	Temperatura	Vrsta čelika		
	Temperature °C	316	304	430
Aerirana; Aerated				
(90% anhidrid); (90% anhydride)	82	III	IV	-
(60% anhidrid); (60% anhydride)	82	II	II	-
(30% anhidrid); (30% anhydride)	82	II	IV	-
Suhi fosforani anhidrid; Dry phosphoric anhydride	toplo ili hladno; warm or cold	I	I	-
Vlažni sumporov(IV) oksid; Wet sulphur(IV) oxide				
plin; gas	21	I	II	III
	301	I	I	I
Anilin; Aniline				
3%	21	I	I	I
koncentrirano netretirano; concentrated untreated	21	I	I	I
Rastaljeni antimon; Molten antimony	593	V	V	V
Kupelj za štavljenje; Tanning bath	21	I	I	-
Kupelj za kromiranje; Chromium-plating bath	21	I	I	-
Kupelj za fiksiranje; Fixing bath				
(za fotografski materijal); (for photographic material)	21	-I	-I	IV
Kupelj za razvijanje; Developing bath				
(za fotografski materijal); (for photographic material)	21	I	I	III
Benzen; Benzene				
toplo, warm	21	I	I	I
		I	I	I
Benzin; Petrol	21	I	I	I
Gazirana pića u različitim koncentracijama; Carbonated beverages in different concentrations	hladna, cold	I	I	-
Amonijev bikarbonat; Ammonium bicarbonate	21	I	I	-
Natrijev hidrogenkarbonat; Sodium bicarbonate				
sve koncentracije; all concentrations	21	I	I	I
5% mirno; non-stirred	66	I	I	I
Kalijev dikromat; Potassium dichromate				
25%	21	I	I	I
25%	kipuće; boiling	I	I	-
Natrijev dikromat sve koncentracije (neutralno); Sodium dichromate all concentrations (neutral)	toplo ili hladno; warm or cold	I	I	I
Pivo; Beer 3,5% - 4-5 alkohola; alcohol	71	I	I	-
Kinin bisulfat (suhi); Quinine bisulphate (dry)				
Natrijev bisulfat; Sodium bisulphate	toplo ili hladno; warm or cold	I	*I	-
sve koncentracije; all concentrations				
Ugljikov disulfid; Carbon disulphide	21	I	I	I
Boraks 5%; Borax 5%	toplo; warm	I	I	I
Natrijev borat; Sodium borate	toplo ili hladno; warm or cold	I	I	I
sve koncentracije; all concentrations				
Brom (razrijeđen u vodi); Bromine (diluted in water)	21	IV	V	V
Amonij-bromid 5%; Ammonium-bromide 5%	21	I	I	-
Srebrov bromid; Silver bromide				
		*I	*II	III
Kalijev bromid; Potassium bromide	21	*I	*II	-
Kadmij; Cadmium	rastaljen; molten	III	III	-
Kalcijev hipoklorit (prašak za bijeljenje); Calcium hypochlorite (bleaching powder)				
1%	21	***II	***III	-
5%	21	***III	***III	-
Kava; Coffee	kipuće; boiling	I	I	I
Kamfor; Camphor	21	I	I	I
Amonijev karbonat; Ammonium carbonate				
1% mirno; non-stirred	21	I	I	I
5% mirno; non-stirred	21	I	I	I
1% aerirano; aerated	21	I	I	I
5% aerirano; aerated	21	I	I	I
1% mućkano; stirred	21	I	I	I
5% mućkano; stirred	21	I	I	I
Barijev karbonat; Barium carbonate	21	I	I	I
Kalcijev karbonat; Calcium carbonate	21	I	I	I
Magnezijev karbonat; Magnesium carbonate	toplo ili hladno; warm or cold	I	I	I
sve koncentracije; all concentrations				
Manganov(II) karbonat; Manganese(II) carbonate	toplo ili hladno; warm or cold	I	I	I
sve koncentracije; all concentrations				
Kalijev karbonat; Potassium carbonate				
1% mirno – mućkano – aerirano; non-stirred – stirred – aerated	21	I	I	I
50%	kipuće; boiling	I	I	-
Bakrov karbonat zasićena otopina u 50% NH4OH				
Copper carbonate saturated solution in 50% NH4OH		I	I	I
Natrijev karbonat; Sodium carbonate				
5%	21	I	I	I
5%	66	I	I	I
5%	kipuće; boiling	I	I	I
50%	kipuće; boiling	I	I	-
fuso	899	V	V	-
Karnalit zasićena otopina; Carnallite saturated solution (KCl-MgCl2-6H2O)	kipuće; boiling	II	II	-

Vrijednosti korozije – laboratorijska ispitivanja

Values of corrosion – laboratory research

Agresivna tvar i njezino stanje; Aggressive substance and its state	Temperatura Temperature	Vrsta čelika Type of steel		
	°C	316	304	430
Celuloza; Cellulose		I	I	I
Antiseptik Chinosol vodena otopina, razrjeđivanje 1-500 Chinosol antiseptic Aqueous solution, dilution 1-500	21	I	I	-
Cijanogen; Cyanogen	21	I	I	-
Bakrov(I) cijanid zasićena otopina; Copper(I) cyanide saturated solution	kipuće; boiling	I	I	I
Cinkov cijanid, vlažno; Zinc cyanide, moist	21	I	I	-
Natrijev citrat, sve koncentracije; Sodium citrate, all concentrations	toplo ili hladno; warm or cold	I	I	-
Kalcij-klorat razrijeđena otopina; Calcium chlorate diluted solution	toplo ili hladno; warm or cold	I	I	-
Kalijev klorat zasićen na 100°C; Potassium chlorate saturated at 100°C	kipuće; boiling	I	I	I
Natrijev klorat 25%; Sodium chlorate 25%	toplo ili hladno; warm or cold	I	I	-
Kloroform; Chloroform	21	I	I	I
Stanatni klor zasićenog amonijaka; Stannate chlorine of saturated ammonium	21 60	I III	II V	-
Acetil-klorid; Acetyl chloride	hladno; cold kipuće; boiling	II II	II II	-
Aluminij-klorid; Aluminium chloride 10% mirno; non-stirred 25% mirno; non-stirred	21 21	III III	IV IV	IV IV
Amonijev klorid; Ammonium chloride 1% mirno; non-stirred 1% aerirano; aerated 1% muckano; stirred 10% 20% 28% 50%	21 21 21 kipuće; boiling kipuće; boiling kipuće; boiling kipuće; boiling	I I I *I *I *I *I	*I *I *I *I *I *I	*I *I *I - - -
Srebrov klorid; Silver chloride	toplo ili hladno; warm or cold	V	V	V
Barijev klorid; Barium chloride 5% zasićen; saturated vodena otopina; aqueous solution	21 21 toplo; warm	I I *I	I I *II	*I *I -
Kalcijev klorid; Calcium chloride razrijeđen; diluted koncentrirana otopina; concentrated solution	21 21	*I *I	*II *II	*III *III
Kloroetan; Chloroethane	21	I	I	I
Dikloroetan; Dichloroethane	21	I	I	-
Željezov(III) klorid od 1% do zasićenja; Iron(III) chloride from 1% to saturation	21	V	V	V
Magnezijev klorid; Magnesium chloride 1% mirno; non-stirred 1% mirno; non-stirred 5% mirno; non-stirred 5% mirno; non-stirred	21 toplo; warm 21 toplo; warm	I *II I *II	*I *III *I *III	*I *I *I -
Živin klorid razrijeđena otopina; Mercuric chloride diluted solution	21	*IV	*V	V
Diklorometan; Dichloromethane 40%	toplo ili hladno; warm or cold	I	I	-
Niklov klorid otopina; Nickel chloride solution	21	*I	*I	-
Kalijev klorid; Potassium chloride 1% mirno; non-stirred 1% muckano; stirred 1% aerirano; aerated 5% mirno; non-stirred 5% muckano; stirred 5% aerirano; aerated 5%	21 21 21 21 21 21 kipuće; boiling	I I I I I I I	I I I I I I I	*I *I *I *I *I *I -
Bakrov(II) klorid; Copper(II) chloride 1% muckano; stirred 1% aerirano; aerated 5% muckano; stirred 5% aerirano; aerated	21 21 21 21	*I *I *II *III	*II *II *III *V	*II *II *II *V
Natrijev klorid; Sodium chloride 5% mirno; non-stirred 5% mirno; non-stirred 20% aerirano; aerated Zasićeno; Saturated Zasićeno; Saturated	21 66 21 21 kipuće; boiling	I I I I I	*I *I *I *I *II	*II *II - - -
Kositrov(IV) klorid gustoća 1,21; Tin(IV) chloride density 1.21	21 kipuće; boiling	III IV	IV V	- -
Kositrov(II) klorid zasićen; Tin(II) chloride Saturated	49 kipuće; boiling	I -	II V	- -
Cinkov klorid; Zinc chloride 5% 5% 20% 20% 70% 70%	21 kipuće; boiling 21 kipuće; boiling 21 kipuće; boiling	I *I I I I I	I *II I II I IV	*I *II *I *V - -
Sumporov diklorid; Sulphur dichloride	toplo ili hladno; warm or cold	V	V	V
Ljepilo; Glue, suho; dry Kisela otopina; Acid solution Kisela otopina; Acid solution	21 21 60	I I I	I *II *II	I - -

Agresivna tvar i njezino stanje; Aggressive substance and its state	Temperatura Temperature	Vrsta čelika Type of steel		
	°C	316	304	430
Kreozot; Creosote	toplo; warm	I	I	-
Kalijev kromat dikromat sve koncentracije (neutralan) Potassium chromate dichromate all concentrations (neutral)	toplo ili hladno; warm or cold	I	I	*I
Dichloroethane; Dichloroethane	kipuće; boiling	I	I	-
Eter; Ether	21	I	I	I
Petrol eter; Petroleum ether	21	I	I	I
Kalij fericijanid; Potassium ferricyanide 5% 25% 25%	21 21 kipuće; boiling	I I I	I I I	I - -
Natrij fericijanid 5% (neutralan); Sodium ferricyanide 5% (neutral)	toplo ili hladno; warm or cold	*I	*I	-
Kalij fericijanid; Potassium ferricyanide 5%	21	I	I	I
Aluminij fluorid; Aluminium fluoride	21	III	IV	IV
Natrijev fluorid; Sodium fluoride 5%	21	*I	*II	III
Formalin (40% formaldehid); Formalin (40% formaldehyde)	21	I	I	I
Amonij fosfat; Ammonium phosphate 5%	21	I	I	I
Trinatrij fosfat; Trisodium phosphate 5%	toplo ili hladno; warm or cold	I	I	-
Plinoviti klor suho; Chlorine gas dry vlažno; moist	21 21 100	I III IV	I IV V	III V V
Fluorni plin; Fluorine gas	21	V	V	V
Želatina; Gelatines	hladna; cold-60	I	I	I
Glicerol; Glycerol	21	I	I	I
Anilin hidroklorid; Aniline hydrochloride	21	IV	V	V
Sumporovodik suho; Hydrogen sulphide dry vlažno; moist	21 21	I -I	I -III	I -III
Aluminij-hidroksid zasićen; Aluminium hydroxide saturated	21	I	*I	*I
Amonij-hidroksid; Ammonium hydroxide	21 kipuće; boiling	I I	I I	I I
Barij-hidroksid sve koncentracije; Barium hydroxide all concentrations	toplo ili hladno; warm or cold	I	I	I
Kalcijev hidroksid; Calcium hydroxide 10% 20% 50%	kipuće; boiling kipuće; boiling kipuće; boiling	I I II	I I III	- - -
Željezov(III) hidroksid; Iron (III) hydroxide	21	I	*I	-
Magnezijev hidroksid (gusta suspenzija); Magnesium hydroxide (thick suspension)	21	I	I	-
Kalijev hidroksid; Potassium hydroxide 5% mirno; non-stirred 5% muckano; stirred 5% aerirano; aerated 20% 50%	21 21 21 kipuće; boiling kipuće; boiling	I I I I I	I I I I II	I I I - -
Natrijev hidroksid; Sodium hydroxide 20% 30% rastaljen; molten	21 kipuće; boiling kipuće; boiling 316	I I II II	I I II II	I I III -
Stroncijev hidroksid; Strontium hydroxide	21	I	I	-
Tinta; Ink	21	I	-II	-
Jod; Iodine	21	IV	V	V
Jodoform; Iodoform	21	I	I	-
Kalijev jodid; Potassium iodide sve koncentracije; all concentrations	toplo ili hladno; warm or cold	I	I	-
Kalcijev hipoklorit; Calcium hypochlorite 2% vodena otopina gustoće; aqueous solution density 1,04	21 38	*** ***	*** ***	*** ***
Kalijev hipoklorit koncentrirani; Potassium hypochlorite concentrated	21	II	II	-
Natrijev hipoklorit; Sodium hypochlorite 5%	21	***	***	***
Natrijev tiosulfat; Sodium thiosulfate 25%	21 kipuće; boiling	I I	-I I	II -
Ketchup mirno; non-stirred mirno; non-stirred	21 66	I I	*I *I	*I *I
Mast; Fat	21	I	I	I
Mlijeko svježe ili kiselo; Milk fresh or sour	21 kipuće; boiling	I I	I I	I -
Natrijev laktat; Sodium lactate 10%	toplo ili hladno; warm or cold	I	I	-
Kvasac; Yeast	toplo ili hladno; warm or cold	I	I	-
Digestivni liker drvenjača; Digesting groundwood liqueur (3% Ca [HSO3] 2+ 2 H2SO4+ SO2+aria)	kipuće; boiling	I	V	-
Majoneza; Mayonnaise	21	I	*I	-
Melasa; Molasses	toplo ili hladno; warm or cold	I	I	I
Živa; Mercury	toplo ili hladno; warm or cold	I	I	I
Sumporov monoklorid; Sulphur monochloride	21	I	I	-
Slaića (senf); Mustard	21	I	*I	*I

Vrijednosti korozije – laboratorijska ispitivanja

Values of corrosion – laboratory research

Agresivna tvar i njezino stanje; Aggressive substance and its state	Temperatura Temperature	Vrsta čelika Type of steel		
	°C	316	304	430
Nafta; Naphtha čista; oil sirova; oil	21 21	I I	I I	I -
Amonijev nitrat; Ammonium nitrate sve koncentracije aerirano-muckano; all concentrations aerated-stirred zasićeno; saturated	21 kipuće; boiling	I I	I I	I I
Srebrov nitrat; Silver nitrate 10% 10%	21 kipuće; boiling	I I	I I	I -
Barijev nitrat vodena otopina; Barium nitrate aqueous solution	toplo, warm	I	I	-
Željezov(III) nitrat; Iron (III) nitrate 1 % mirno; non-stirred 5 % mirno; non-stirred 1 % muckano; stirred 5 % muckano; stirred 1 % aerirano; aerated 5 % aerirano; aerated	21 21 21 21 21 21	I I I I I I	I I I I I I	I I I I I I
Magnezijev nitrat; Magnesium nitrate sve koncentracije; all concentrations	toplo ili hladno; warm or cold	I	I	I
Živin nitrat Hg(NO3); Mercury nitrate sve koncentracije; all concentrations	toplo ili hladno; warm or cold	I	I	I
Niklov(II) nitrat; Nickel(II) nitrate sve koncentracije; all concentrations	toplo ili hladno; warm or cold	I	I	I
Kalijev nitrat; Potassium nitrate 1 % mirno-muckano-aerirano; non-stirred - stirred - aerated 5 % mirno-muckano-aerirano; non-stirred - stirred - aerated 50% 50% rastaljen; molten	21 21 21 kipuće; boiling 550	I I I I I	I I I I I	I I - - -
Bakreni nitrat; Copper nitrate 1 % mirno; non-stirred 1 % muckano; stirred 1 % aerirano; aerated 5 % mirno; non-stirred 5 % muckano; stirred 5 % aerirano; aerated vodena otopina; aqueous solution 50 %	21 21 21 21 21 21 kipuće; boiling	I I I I I I I	I I I I I I I	I I I I I I -
Natrijev nitrat; Sodium nitrate sve koncentracije; all concentrations	toplo ili hladno; warm or cold	I	I	I
Stroncijev nitrat otopina; Strontium nitrate solution	toplo, warm	I	I	-
Cinkov nitrat otopina; Zinc nitrate solution	toplo, warm	I	I	-
Natrijev nitrat; Sodium nitrate sve koncentracije; all concentrations	toplo ili hladno; warm or cold	I	I	-
Zapaljivo ulje; Flammable oil sa sumpornom kiselinom; with sulfuric acid	toplo, warm	I	I	-
Sirova ulja; Crude oils	toplo ili hladno; warm or cold	-I	-I	-I
Borovo ulje; Tall oil	toplo ili hladno; warm or cold	I	I	-
Sojino ulje; Soya oil	toplo ili hladno; warm or cold	I	I	-
Biljna i mineralna ulja; Herbal and mineral oil	toplo ili hladno; warm or cold	I	I	-I
Amonijev oksalat; Ammonium oxalate 5%	21	I	I	I
Kalijev oksalat; Potassium oxalate	21	I	I	I
Živin oksiklorid; Mercury oxalate	21	*II	*III	-
Ugljikov(II) oksid; Carbon (II) oxide	760 871	I I	I I	I I
Parafin; Paraffin	toplo ili hladno; warm or cold	I	I	I
Drvenjača; Groundwood	21	I	I	-
Amonijev perklorat; Ammonium perchlorate 10%	kipuće; boiling	I	I	-
Natrijev perklorat; Sodium perchlorate 10%	21 kipuće; boiling	I I	I I	- -
Kalijev permanganat; Potassium permanganate 5% 10%	21 kipuće; boiling	I I	I I	I -
Vodikov peroksid; Hydrogen peroxide (oksigenirana voda); (oxygenated water)	21 kipuće; boiling	I I	-I -II	-I -II
Natrijev peroksid; Sodium peroxide 10%	21 93	I I	I I	- -
Amonij-persulfat; Ammonium persulphate 5%	21	I	I	I
Rastaljeno olovo; Molten lead	399	II	II	II
Fenolne smole; Phenol resins	toplo ili hladno; warm or cold	I	I	-
Rastaljena smola; Molten resin	66	I	I	I
Destilirani saharin; Distilled saccharine	21	I	I	I
Natrijev salicilat; Sodium salicylate sve koncentracije; all concentrations	21	I	I	I
Krv; Blood	hladno, cold	I	*I	I
Sapuni; Soaps	21	I	I	I
Coca-Colin sirup (čist); Coca-Cola syrup (pure)	21	I	I	I
Sirup; Syrup	toplo, warm	I	I	-
Jabukovača; Apple cider	21	I	I	I

Agresivna tvar i njezino stanje; Aggressive substance and its state	Temperatura Temperature	Vrsta čelika Type of steel		
	°C	316	304	430
Natrijev silikat; Sodium silicate	toplo ili hladno; warm or cold	I	I	I
Aluminijev sulfat; Aluminium sulphate 5% 10% 10% zasićeno; saturated zasićeno; saturated	66 21 kipuće; boiling 21 kipuće; boiling	I I I I I	*I *II *III *IV *V	*I *II *III *IV *V
Aluminijev-kromov sulfat; Aluminium chrome sulphate 5% gustoća; thickness 1,6	21 kipuće; boiling	I -	*I *V	- -
Aluminijev-kalijev sulfat; Aluminium potassium sulphate 2% 10% 10% zasićeno; saturated	21 21 kipuće; boiling kipuće; boiling	I I I II	*I *I *II *III *IV	*I *II *III *IV
Amonijev sulfat; Ammonium sulphate 1 % aerirano; aerated 1 % muckano; stirred 5 % aerirano; aerated 5 % muckano; stirred 10%	21 21 21 21 kipuće; boiling kipuće; boiling	I I I I *I I	I I I I II II	I I I I - -
Amonijev-kalijev sulfat; Ammonium potassium sulphate (razrijeđeno i zasićeno); (diluted and saturated)		I	*I	*II
Barijev sulfat; Barium sulphate	21	I	I	I
Zasićen kalcijev sulfat; Saturated calcium sulphate	21	I	I	I
Kinin sulfat, suho; Quinine sulphate, dry		I	I	II
Željezov(III) sulfat; Iron (III) sulphate 1% mirno; non-stirred 1% aerirano; aerated 1% muckano; stirred 5% mirno; non-stirred 5% aerirano; aerated 5% muckano; stirred 10%	21 21 21 21 21 21 kipuće; boiling	I I I I I I I	I I I I I I I	I I I I I I -
Željezov(II) sulfat; Iron (II) sulphate 10%	21 kipuće; boiling	I I	*I *I	*I -
Magnezijev sulfat; Magnesium sulphate	toplo ili hladno; warm or cold	I	I	I
Niklov(II) sulfat; Nickel (II) sulphate toplo ili hladno; warm or cold	toplo ili hladno; warm or cold	I	I	-
Kalijev sulfat; Potassium sulphate 1% mirno; non-stirred 1% muckano; stirred 1% aerirano; aerated 5% mirno; non-stirred 5% muckano; stirred 5% aerirano; aerated 5%	21 21 21 21 21 21 toplo, warm	I I I I I I I	I I I I I I I	I I I I I I -
Bakrov(II) sulfat; Copper (II) sulphate 5% muckano; stirred 5% aerirano; aerated zasićena otopina; saturated solution	21 21 kipuće; boiling	I I I	I I I	I I -
Natrijev sulfat; Sodium sulphate 5% zasićeno; saturated	21 kipuće; boiling	I I	I I	- -
Cinkov sulfat; Zinc sulphate 5% 25% zasićeno; saturated	21 kipuće; boiling 21	I I I	I I I	I - I
Amonijev sulfid; Ammonium sulphite	21 kipuće; boiling	I I	I I	- -
Natrijev sulfid; Sodium sulphite 5% 10% 25% 50%	21 66 kipuće; boiling kipuće; boiling	I I I I	I I I I	III - I I
Rastaljeni antimonov (III) sulfid; Molten antimony (III) sulphide	649-871	V	V	V
Zasićeni natrijev sulfid; Saturated sodium sulphide	21	I	*II	-
Otopine nitratne kiseline; Nitric acid solutions	toplo ili hladno; warm or cold	II	II	II
Rastaljeni kositar; Molten tin	232	III	III	III
Sokovi od povrća; Vegetable juices		I	I	-
Sokovi od voća; Fruit juices	21	I	I	I
Ugljikov tetraklorid; Carbon tetrachloride (kemijski čist); (chemically pure)	21 kipuće; boiling	I I	I I	- -
Antimonov triklorid; Antimony trichloride	21	IV	V	V
Nalič; Paint	21 toplo, warm	I I	I I	I -
Vino; Wine	24	I	I	I
Viski; Whiskey	21	I	I	-
Rastaljeni cink; Molten zinc	427	V	V	V
Sumpor, vlažan; Sulphur, moist rastaljeni; molten rastaljeni; molten	21 130 445	*I I III	*II I III	*II I -
Šećer; Sugar	toplo, warm	I	I	I

Tolerancije debljine kod limova prikazane su u sljedećim dvjema tablicama. Prva (I.) se primjenjuje na hladno valjane proizvode (trake, široke trake i limovi) dok se druga (II.) primjenjuje na toplo valjane proizvode (limove i trake).

Thickness tolerances of flat sheets and bars are presented in the following two tables. The first (I.) is applied to cold rolled products (flat bars and metal sheets), while the second (II.) is applied to hot rolled products (flat bars and metal sheets).

(1) Mjerenje debljine mora se vršiti ne na manje od 10 mm od ruba

(1) The thickness must be measured less than 10 mm from the edge

TABLICA I (hladno valjani UNI EN 10258-10259) (1); TABLE I (cold rolled UNI EN 10258-10259) (1)

Nazivna debljina; Nominal thickness (mm)	Hladno valjani limovi, tanki limovi, široke trake Cold rolled sheet metal, thin sheet metal, wide flat bars	Hladno valjane uske trake Cold rolled narrow flat bars
$0,2 < s \leq 0,4$	$\pm 0,05$	$\pm 0,03$
$0,4 < s \leq 0,7$	$\pm 0,07$	$\pm 0,05$
$0,7 < s \leq 1$	$\pm 0,10$	$\pm 0,06$
$1 < s \leq 1,45$	$\pm 0,12$	$\pm 0,07$
$1,45 < s \leq 1,8$	$\pm 0,15$	$\pm 0,08$
$1,8 < s \leq 2,1$	$\pm 0,17$	$\pm 0,09$
$2,1 < s \leq 2,5$	$\pm 0,20$	$\pm 0,10$
$2,5 < s \leq 3$	$\pm 0,22$	$\pm 0,12$
$3 < s \leq 3,3$	$\pm 0,25$	$\pm 0,13$
$3,3 < s \leq 3,7$	$\pm 0,30$	$\pm 0,15$
$3,7 < s \leq 4,25$	$\pm 0,35$	$\pm 0,18$
$4,25 < s \leq 5$	$\pm 0,35$	$\pm 0,20$

TABLICA II (toplo valjani UNI EN 10029-10051) (1); TABLE II (hot rolled UNI EN 10029-10051) (1)

Nazivna debljina; Nominal thickness (mm)	Tolerancija za nazivnu širinu; Nominal thickness tolerance (mm)	
	$L \leq 1.250$	$1.250 < L \leq 2.000$
$s \leq 5$	+0,35 / -0,25	+0,50 / -0,25
$5 < s \leq 10$		+1,20 / -0,25
$10 < s \leq 19$		+1,40 / -0,25
$19 < s \leq 25$		+1,50 / -0,25
$25 < s \leq 40$		+1,80 / -0,25
$s > 40$	Dogovara se pri narudžbi; Agreed upon when ordered	

KLASE TOLERANCIJE ZA PROIZVODE KOJI SU DOSTUPNI NA SKLADIŠTU; TOLERANCE CATEGORIES FOR PRODUCTS AVAILABLE ON STOCK (UNI EN 10278:2002)

Stanje pri isporuci; Status on delivery	Klase tolerancije prema ISO 286-2; Tolerance categories according to ISO 286-2					
	h7	h8	h9	h11	k13	DIN 1014
Ljušteno/Valjano; Peeled/rolled	-	-	-	-	T	Q
Vučeno; Drawn	-	-	-	E-Q	-	-
Grubo brušeno; Roughly ground	-	-	T	-	-	-
Brušeno; Ground	T	T	-	-	-	-

T= Okrugle; E=Šesterokutne; Q=Kvadratne
Dimenzionalne tolerancije treba izabrati između onih naznačenih u tablici.

T= Round; E=Hexagonal; Q=Square
Dimensional tolerances should be selected from among those designated in the table.

DIMENZIONALNE TOLERANCIJE ZA HLADNO DORAĐENE PROIZVODE U ŠIPKAMA;
DIMENSIONAL TOLERANCES FOR COLD ADDITIONALLY PROCESSED PRODUCTS IN ROD FORM

Nazivne dimenzije; Nominal Dimensions (mm)									
da	a	h7	h8	h9	h10	h11	h12	k11	k13*
1	3	0,010	0,014	0,025	0,040	0,060	0,100	+0,060	+0,14
3	6	0,012	0,018	0,030	0,048	0,075	0,120	+0,075	+0,18
6	10	0,015	0,022	0,036	0,058	0,090	0,150	+0,090	+0,22
10	18	0,018	0,027	0,043	0,070	0,110	0,180	+0,110	+0,27
18	30	0,021	0,033	0,052	0,084	0,130	0,210	+0,130	+0,33
30	50	0,025	0,039	0,062	0,100	0,160	0,250	+0,160	+0,39
50	80	0,030	0,046	0,074	0,120	0,190	0,300	+0,190	+0,46
80	120	0,035	0,054	0,087	0,140	0,220	0,350	+0,220	+0,54
120	180	0,040	0,063	0,100	0,160	0,250	0,400	+0,250	+0,63
180	250	0,046	0,072	0,115	0,185	0,290	0,460	+0,290	+0,72

*= Polje koje nije predviđeno normom EN 10278
Kod tolerancije „h“ sve su dimenzije niže od nazivne dimenzije. Maksimalna vrijednost podudara se s nazivnom dimenzijom, dok se opseg polja tolerancije može vidjeti iz tablice. Mjerenje realnog opsega šipke mora se vršiti na najmanje 150 mm od krajeva, sukladno EN 10278.

U tablici je također naznačen opseg polja tolerancije k 13, kojeg mi koristimo za proizvode naziva „ljušteni čelici“ od nehrđajućeg čelika (izvedba 1X). Ovo odstupanje je veće od svih nazivnih dimenzija.

*= Field not provided for in the EN 10278 standard
With the “h” tolerance, all the dimensions are lower than the nominal dimension. The maximum value matches the nominal dimension, while the range of the tolerance field can be seen in the table. Measuring the real range of a rod must be performed at least 150 mm from the edges, according to EN 10278.

The k 13 tolerance field range is also designated in the table, which is used for products called stainless steel “peeled steel” (design 1X). This discrepancy is greater than all the nominal dimensions.

TOLERANCIJA PRAVOCRTNOSTI ZA DORAĐENE PROIZVODE U ŠIPKAMA (UNI EN 10278:2002)
STRAIGHTNESS TOLERANCE FOR ADDITIONALLY PROCESSED PRODUCTS IN ROD FORM (UNI EN 10278:2002)

Oblik proizvoda; Product profile	Skupina čelika; Steel group	Nazivni opseg; Nominal range (mm)	Najveće odstupanje; Maximum discrepancy (mm)
Okrugli; Round	Poboljšani čelik; Improved steel		1,5
	Nehrdajući čelik; Stainless steel		1,0
Kvadratni i šesterokutni; Square and hexagonal	Poboljšani čelik; Improved steel	d ≤ 75 mm	2,0
	Nehrdajući čelik; Stainless steel	d ≤ 75 mm	1,0
	Poboljšani čelik; Improved steel	d > 75 mm	2,5
	Nehrdajući čelik; Stainless steel	d > 75 mm	1,5

Ako nije drukčije označeno, primjenjuju se tolerancije iz tablice.

Unless otherwise designated, the tolerances from the tables are applied.

TOLERANCIJA KRUŽNOSTI ZA HLADNO DORAĐENE PROIZVODE U ŠIPKAMA (UNI EN 10278:2002)
CIRCULARITY TOLERANCE FOR COLD ADDITIONALLY PROCESSED PRODUCTS IN ROD FORM (UNI EN 10278:2002)

Greška kružnosti ne može biti veća od polovine označene tolerancije i ni u kojem slučaju ne smije biti veća od gornje granice tolerancije.
The circularity defect cannot be greater than one half of the designated tolerance and, anyway, cannot be greater than the upper tolerance limit.

Usporedna tablica inch/mm

Comparison table inch/mm

CIJEVI I FITINZI ISO PREMA EN 10255-UNI 8863 TUBES AND FITTINGS ACC. TO EN 10255-UNI 8863	
Vanjski promjer (mm) External diameter (mm)	Vanjski promjer (ISO inch) External diameter (ISO inch)
10	1/8"
13,50	1/4"
17,20	3/8"
21,30	1/2"
26,90	3/4"
33,70	1"
42,40	1.1/4"
48,30	1.1/2"
53,74	1.3/4"
60,30	2"
66	2.1/4"
76,10	2.1/2"
88,90	3"
101,60	3.1/2"
114,30	4"
126,50	4.1/2"
139,70	5"
168,30	6"
219,10	8"
273	10"
324	12"
356	14"
406	16"
457	18"
508	20"
609,60	24"

BRITANSKI STANDARD (BS) BRITISH STANDARD (BS)	
Vanjski promjer (mm) External diameter (mm)	Vanjski promjer (BS inch) External diameter (BS inch)
6,35	1/4"
7,89	5/16"
9,52	3/8"
12,70	1/2"
15,87	5/8"
19,05	3/4"
22,22	7/8"
25,40	1"
31,75	1.1/4"
38,10	1.1/2"
44,45	1.3/4"
50,80	2"
57,20	2.1/4"
63,50	2.1/2"
70	2.3/4"
76,20	3"
82,50	3.1/4"
88,90	3.1/2"
101,6	4"
108	4.1/4"
114,30	4.1/2"
127	5"
133	5.1/4"
152	6"
159	6.1/4"
165	6.1/2"
177,80	7"
193,70	7.5/8"
203	8"
216	8.1/2"

Norme proizvodnje, tablice tolerancije i normative za inox šavne cijevi

Production Standards, Tolerance Tables and Norms for Inox Welded Tubes

AISI 304 - 304L - 316L - 316Ti - 321

Limovi u kolutu koji su korišteni za proizvodnju cijevi sukladni su s normom EN 10088-2. Korišteni čelik je ponovno hladno valjani do debljine od 1,5 mm, toplo valjani od 2 mm do 6 mm. Zavareni spojevi ostvareni su pomoću metode HF za mehaničke i opće građevinske namjene ili metodom TIG/Laser za tlačne namjene. Kontrola zavarivanja izvršena je sukladno metodi Eddy Current koja se temelji na promjenama u protoku struje koja je inducirana u cijevi za testiranje. Posebne zavojnice detektiraju i prenose signal osciloskopu koji u slučaju nekontinuiranog protoka aktivira zvučni indikator te se neprikladne cijevi odbacuju.

Površinski izgled. Sve su cijevi vanjski zaglađene, a ovisno o zahtjevu vanjska površina može biti dekapirana, četkana, satinirana, s vanjskim poliranjem, s vanjskim/unutarnjim poliranjem.

Dužine. Cijevi se isporučuju u šipkama komercijalne dužine od 6 m ili na zahtjev u šipkama fiksne dužine do najviše 12 m.

The coils used for tube production are in accordance with the EN 10088-2 standard. The steel used is again cold rolled up to 1.5 mm thickness, hot rolled from 2 mm to 6 mm. The welded joints are made using the HF method for mechanical and general construction purposes or the TIG/Laser method for compressive purposes. The welding control is carried out using the Eddy Current method based on alterations in the current flow that is induced in the pipes to be tested. Special coils are detected and transfer a signal to the oscilloscope that activates a sound indicator in the event of a non-continuous flow, thus any unfit pipes are rejected.

Surface Appearance All tubes are smooth finished tubes and, depending on the requirements, the external surface can undergo pickling, be brushed, or scotch brite, with external polish or with external/internal polishing.

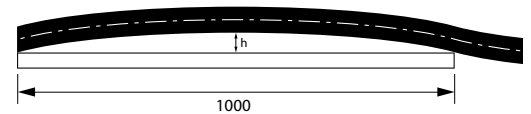
Lengths Tubes are delivered in rods of commercial 6 m lengths or as requested, in fixed lengths of up to 12 m.

TOLERANCIJA PROIZVODNJE; PRODUCTION TOLERANCE

Vanjski promjer External diameter	Tolerancija vanjskog promjera External diameter tolerance	Tolerancija debljine Thickness tolerance
< 114,3	± 0,75% (D3) min ±0,3 mm	± 10% (T3)
> 114,3	± 1% (D2) min ±0,5 mm	± 10% (T3)

TOLERANCIJA PRAVOCRTNOSTI; STRAIGHTNESS TOLERANCE

Vanjski promjer External diameter	h
< 114,3	2 mm
> 114,3	2,5 mm

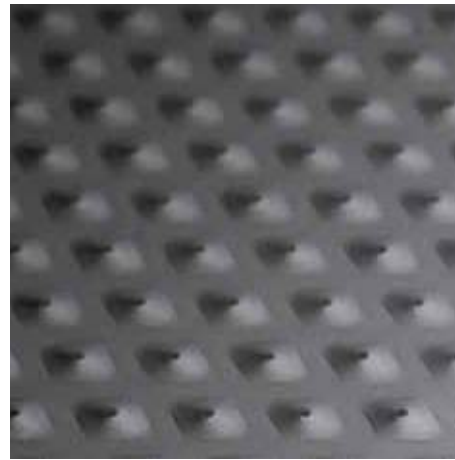


Usporedna tablica glavnih normi proizvodnje po području uporabe

Reference Table of the Main Production Standards per Use Area

REFERENTNE NORME; REFERENCE STANDARDS

Područje uporabe; Use area	Europska norma; Eu. standard	S.S.	ASTM - ASME	DIN	NFA
Korozija; Corrosion	EN 10217-7	219711 219713	A 358 - SA 358 A 312 - SA 312 A 269 - SA 269	17457	49147
Prehrambeno; Food	EN 10217-7		A 270	11850	49249
Izmjenjivači topline Heat-exchange units	EN 10217-7	219711 219713	A 249 - SA 249	17457 28181	49247 49244
Provođenje tekućine Fluid supply	EN 10217-7		A 778 A 269	17455	49147
Provođenje pitke vode Drinking water supply	EN 10312			DVGW541	
Dekorativno; Decorative Konstrukcijsko; Structural	EN 10296-2		A 554	17455 2395	49647



16	limovi sheets	
30	cijevi tubes	
42	profili profiles	
48	cijevni pribor i ventili valves and fittings	
80	dodatni pribor accessorise	
99	usluge services	



Marinox

limovi metal sheets

Naš asortiman se sastoji od limova u različitim formatima (standardnim i na mjeru), kvaliteti (304, 316L, 316Ti, 321 itd.), površinskoj obradi (2B, F1, Sc.Br.+PVC, BA+PVC...) i limova prema specijalnim zahtjevima kupca.

Our product range is based on plates with different formats (standard, cut on the length), different material quality (304, 316L, 316Ti, 321... etc), different surface finish (2B, F1, Sc.Br.+PVC, BA+PVC...) and plates according to specific customer request.

- 18** Limovi u pločama iz nehrđajućeg čelika
Stainless steel sheets
- 19** Dekorativni limovi
Decorativ sheets
- 20** Dekorativni limovi u boji
Decorativ coloured sheets
- 22** Perforirani limovi
Perforated sheets
- 24** Protuklizne rešetke od nehrđajućeg čelika
Stainless steel anti-slip gratings
- 26** Mreže i tkanine
Nets and clothes

Legenda Limovi – Mreže – Rešetke

Artikl; Item	Opis; Description
L2B	Lim, hladno valjani 2B Metal sheets, cold, 2B additional processing
LF1	Lim, toplo valjani F1 Metal sheets, hot F1 additional processing
LF1	Ploče; Plates
LBP	Lim, 2B zaštićeni; Metal sheets, 2B protected
L2S	Lim, drugi izbor; Metal sheets, other selection
CO2B	Lim u kolutu, hladno valjani 2B ; Coil, cold rolled 2B
COF1	Lim u kolutu, toplo valjani F1; Coil, hot rolled F1
COBA	Lim u kolutu, polirani, BA; Coil, polished, BA
LSB	Zaštićeni scotch brite satinirani lim Protected scotch brite Metal sheets
LSA	Zaštićeni satinirani lim; Protected scotch brite Metal sheets
L2SB	Dvostranični zaštićeni scotch brite lim Double-sided protected scotch brite Metal sheets
L2SA	Dvostranični zaštićeni satinirani lim Double-sided protected scotch brite Metal sheets
LBA	Polirani zaštićeni BA lim Polished protected BA Metal sheets
LSM	Super mirror zaštićeni lim Super mirror protected Metal sheets
LLS	Strojno polirani zaštićeni lim Protected Metal sheets machine polished
LQU	Lim, rezan po mjeri – toplo ili hladno valjani Metal sheets, tailor-cut – hot or cold rolled
LQU	Lim, kvadratičasti; Metal sheets, square-like
LCR	Lim, s uzorkom rižinih zrnaca Metal sheets, rice beads sample

Legend Metal Sheets – Meshes – Grids

Artikl; Item	Opis; Description
LAP	Lim, bisernog uzorka; Metal sheets, pearl sample
LFI	Lim, marmorirani uzorak; Metal sheets, marble sample
LPE	Lim, uzorak slonove kože; Metal sheets, elephant skin sample
LPR	Lim, uzorak s malim rombima Metal sheets, small rhombus sample
LTL	Lim, uzorak lanenog platna; Metal sheets, linen sample
LMB	Rebrasti lim (s ispupčenim uzorkom-bugnata) Ribbed tin (convex ashlar sample)
LMC	Rebrasti lim s bademastim uzorkom inox ili aluminij Ribbed tin with almond sample, inox or aluminium
LMS	Ekspandirani lim; Metal sheets Extruded
LFRQ	Lim, perforirani s kvadratnim perforacijama Metal sheets, perforated with square perforations
LFR	Lim, perforirani s okruglim perforacijama Metal sheets, perforated with round perforations
LFRA	Lim, perforirani s duguljastim perforacijama Metal sheets, perforated with oblong perforations
GP	Rešetke; Grids
GRIPP	Rešetke-narančina kora- vrste GRIPP Grids-orange skin-GRIPP types
RE-REI	Mreže; Meshes
TELA	Platno; Canvas
ARM	Trakica od čelika za opruge A 301 Metal strip for springs A 301
LCO	Corten Lim; Corten Metal sheets

Limovi i trake od inox čelika

Inox (Stainless) Steel Metal Sheets and flat bars

Dostupnost u skladištu:

AISI 304 – 304 L – 310 – 316L – 321 – 316T – 430 – CORTEN

U doradama:

2B (hladno valjani), **BA** (hladno valjani, polirani), **Super Mirror, Mehanički polirano i zaštićeno** (na tzv. mirror/ogledalo), **F1** (toplo valjani), **Scotch brite, Satinirani** (granulacije 240/320 ili druge na zahtjev).

Availability on stock:

AISI 304 – 304 L – 310 – 316L – 321 – 316T – 430 – CORTEN

Additionally processed:

2B (cold rolled), **BA** (cold rolled, so-called mirror polished), **Super Mirror, Mechanically polished and protected, F1** (hot rolled), **Scotch brite, Brushed** (240/320 standard or any other at request).

Standardni formati limova

Standard Metal Sheets Formats

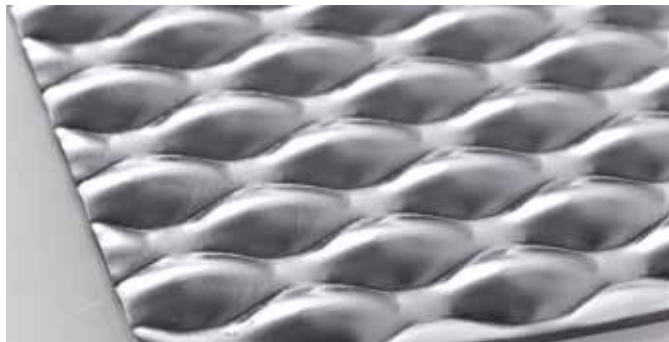
DEBLJINA THICKNESS	0,1	0,2	0,3	0,4	0,5	0,6	0,8	1	1,2	1,5	2	2,5	3	4	5	6	8	10	12	15	20	25	30
FORMATI FORMATS	Teorijska težina Kg/fg; Theoretical weight Kg/fg																						
1000 x 1000	0,8	1,6	2,4	3,2	4	4,8	6,4	8	9,6	12	16	20	24	32	40	48	64	80	96	120	160	200	240
1000 x 2000	1,6	3,2	4,8	6,4	8	9,6	12,8	16	19,2	24	32	40	48	64	80	96	128	160	192	240	320	400	480
1000 x 3000	2,4	4,8	7,2	9,6	12	14,4	19,2	24	28,8	36	48	60	72	96	120	144	192	240	288	360	480	600	720
1000 x 4000	3,2	6,4	9,6	12,8	16	19,2	25,6	32	38,4	48	64	80	96	128	160	192	256	320	384	480	640	800	960
1250 x 2500	2,5	5	7,5	10	12,5	15	20	25	30	37,5	50	62,5	75	100	125	150	200	250	300	375	500	625	750
1250 x 3000	3	6	9	12	15	18	24	30	36	45	60	75	90	120	150	180	240	300	360	450	600	750	900
1250 x 4000	4	8	12	16	20	24	32	40	48	60	80	100	120	160	200	240	320	400	480	600	800	1000	1200
1500 x 3000	3,6	7,2	10,8	14,4	18	21,6	28,8	36	43,2	54	72	90	108	144	180	216	288	360	432	540	720	900	1080
1500 x 4000	4,8	9,6	14,4	19,2	24	28,8	38,4	48	57,6	72	96	120	144	192	240	288	384	480	576	720	960	1200	1440
1500 x 6000	7,2	14,4	21,6	28,8	36	43,2	57,6	72	86,4	108	144	180	216	288	360	432	576	720	864	1080	1440	1800	2160
2000 x 4000	6,4	12,8	19,2	25	32	38,4	51,2	64	76,8	96	128	160	192	256	320	384	512	640	768	960	1280	1600	1920
2000 x 6000	9,6	19,2	28,8	38,4	48	57,6	76,8	96	115,2	144	192	240	288	384	480	576	768	960	1152	1440	1920	2400	2880

Limovi AISI 304/BA/Satinirani – odlikuje ih: visoka otpornost na oštećenja, lakoća, nisko trenje površine te dekorativna svojstva. Upotrebljavaju se u različitim područjima: od industrije do građevine, od arhitekture interijera i eksterijera sve do dizajna proizvoda.

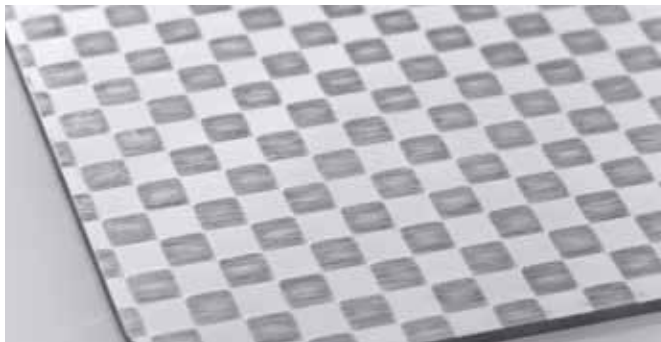
Veličine limova: širine 1000/1250 mm; dužine 2000/2500/3000 mm; debljine 0,4-1,5 mm.

Metal sheets in AISI 304/BA/Scotch brite - characterised by: high resistance to damage, lightness, low surface friction and decorative properties. Used in various areas: from industry to construction, from architecture, interior and exterior design to product design.

Metal sheets sizes: width: 1000/1250 mm; length: 2000/2500/3000 mm; thickness: 0.4-1.5 mm.



Artikl; Item: **LAP**
Dorada; Additional processing: **BISER**



Artikl; Item: **LCH**
Dorada; Additional processing: **CHECKS**



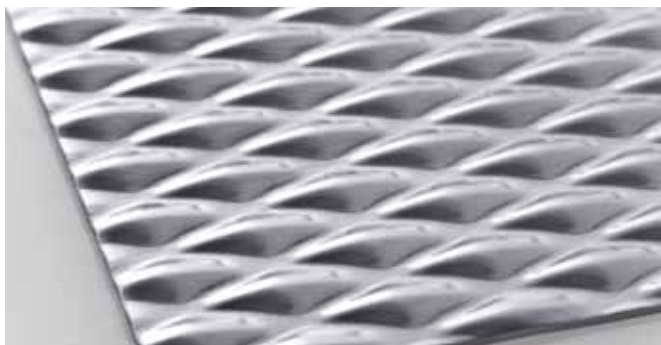
Artikl; Item: **LCR**
Dorada; Additional processing: **RIŽINA ZRNA; RICE BEADS**



Artikl; Item: **LFI**
Dorada; Additional processing: **MARMORIRANI; MARBLE**



Artikl; Item: **LPE**
Dorada; Additional processing: **SLONOVA KOŽA; ELEPHANT SKIN**



Artikl; Item: **LPR**
Dorada; Additional processing: **MALI ROMBI; SMALL RHOMBUSES**



Artikl; Item: **LQU**
Dorada; Additional processing: **KVADRATIĆI; SQUARE-LIKE**



Artikl; Item: **LTL**
Dorada; Additional processing: **LANENO PLATNO; LINEN**

Dekorativni limovi u boji

Eloksirano obojani limovi mogu se upotrebljavati u najrazličitijim područjima poput prehrambene industrije, proizvodnje dizala te predstavljaju savršeno rješenje za vanjsko oblaganje arhitektonskih konstrukcija kao i za izradu umjetničkih djela.

Druge boje na upit.

Anodized Metal Sheets

Anodized metal sheets can be used in diverse areas ranging from the food industry to lift manufacture, and represent a perfect external coating for architectural structures and for the creation of works of art.

Other colours on request.



Artikl; Item: **LBR**
Boja; Colour: **BRONČANA; BRONZE**



Artikl; Item: **CHA**
Boja; Colour: **ŠAMPANJAC; CHAMPAGNE**



Artikl; Item: **LOR**
Boja; Colour: **ZLATNA; GOLD**



Artikl; Item: **LBL**
Boja; Colour: **PLAVA; BLUE**



Artikl; Item: **LRS**
Boja; Colour: **CRVENA; RED**



Artikl; Item: **LVR**
Boja; Colour: **ZELENA; GREEN**

Rebrasti limovi bademastog uzorka proizvod su procesa ekstrudiranja u željezarama, mogu biti od inox čelika i od aluminija; upotrebljavaju se za stubišta i skele. Razlikuju se od rebrastih limova s ispupčenim uzorkom jer su ispod potpuno glatki i bez otisaka. Format: širine 1000/1250/1500; dužine 2000/3000/4000. **Rebrasti limovi s ispupčenim uzorkom (Bugnata)** proizvode se štancanjem običnih limova. Može ih se upotrijebiti za izgradnju stazica, stepenica, podova, u brodograđevnoj, željezničkoj, automobilskoj industriji, u raznim stolarskim i mehaničkim konstrukcijama itd. Standardni format je 1000x2000 mm (drugi formati na upit).

Ribbed metal sheets with almond sample are products of extruding processes in the metalwork's; they can be made of stainless (inox) steel and aluminum; they are used for staircases and scaffoldings. They differ from the ribbed metal sheet with convex ashlar sample since they are absolutely smooth and without prints underneath. Formats: 1000/1250/1500 width; 2000/3000/4000 length. **Ribbed metal sheets with convex ashlar sample** are produced by punching ordinary sheet metal. They can be used for manufacturing paths, stairs, floors, in shipbuilding, railway and car industries, in various joinery and mechanical structures, etc. Their standard format is 1000x2000 mm (other formats upon request).



Artikl; Item: **LMD**
Dorada; Additional processing: **BADEMASTI UZORAK; ALMOND SAMPLE**



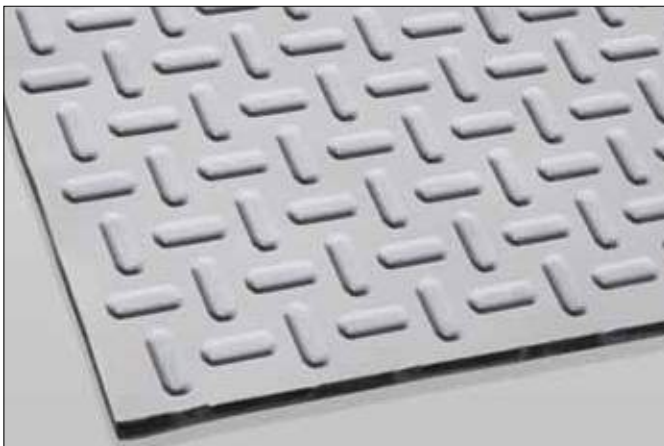
Artikl; Item: **LMD**
Dorada; Additional processing: **ALUMINIJ BADEMASTI UZORAK; ALUMINIUM ALMOND SAMPLE**



Artikl; Item: **LMDSS**
Dorada; Additional processing: **SATINIRANE S OTISNUTIM BADEMASTIM UZORKOM; SCOTCH BRITE WITH IMPRESSED ALMOND SAMPLE**



Artikl; Item: **LMDS**
Dorada; Additional processing: **S OTISNUTIM BADEMASTIM UZORKOM; WITH IMPRESSED ALMOND SAMPLE**



Artikl; Item: **LMBB**
Dorada; Additional processing: **S ŠTAPIČASTIM ISPUPČENIM UZORKOM; WITH CONVEX ASHLAR SAMPLE-STICKS**



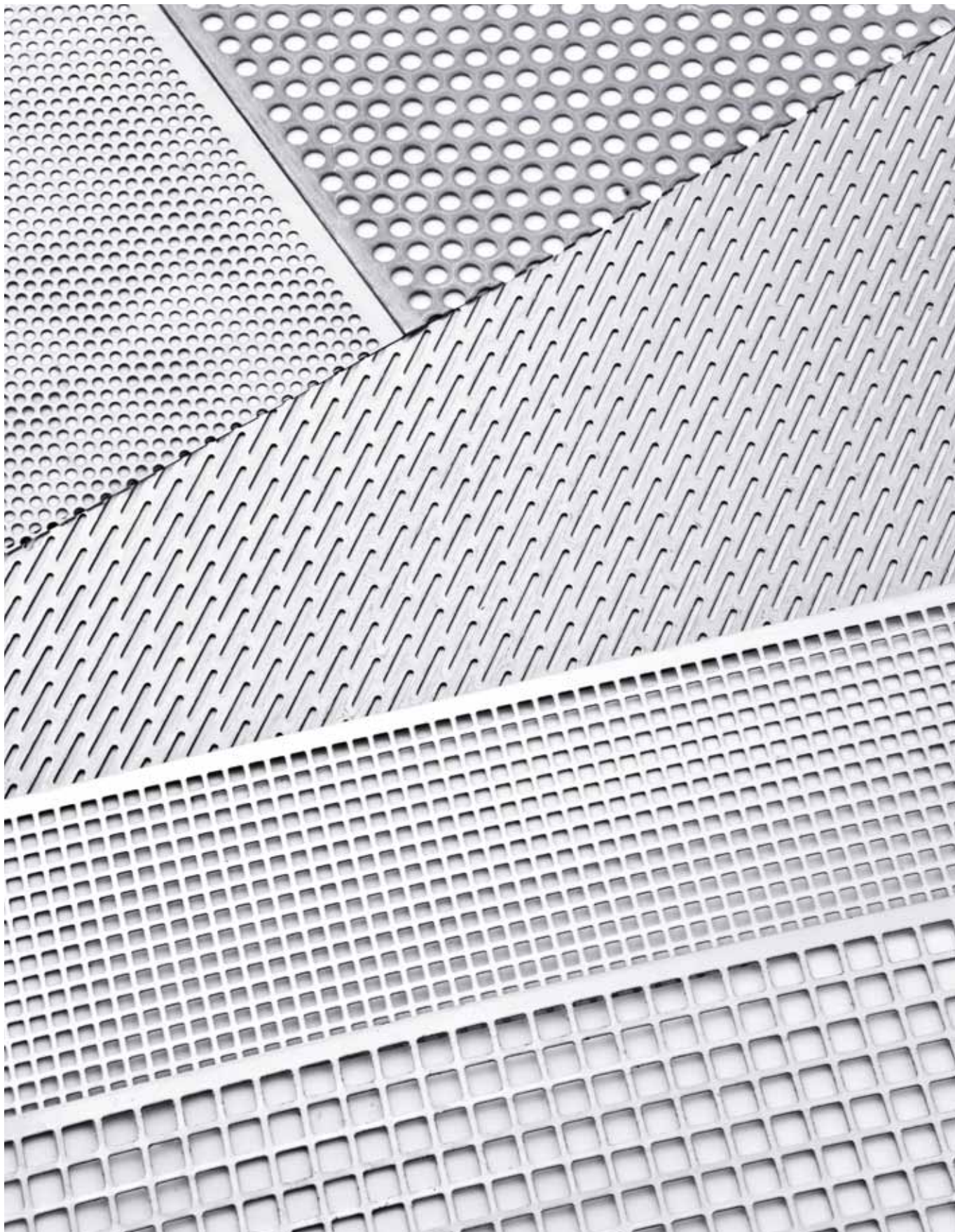
Artikl; Item: **LMB**
Dorada; Additional processing: **ROMBOIDNE S ISPUPČENIM UZORKOM ; RHOMBOID WITH CONVEX ASHLAR SAMPLE**

Perforirani lim poznaje bezbroj primjena te se upotrebljava u najrazličitijim područjima industrije, poljoprivrede, opremanja. Potrebe za prozirnošću, lakoćom ili permeabilnošću kombinirane s problemom otpornosti dovele su do perforacije limova, najprije s nerazvijenim sustavima zatim sa sve naprednijim tehnologijama.

Standardni format za perforirane limove je 1000x2000 mm. U ovom formatu raspoložemo sa širokim izborom perforacija dostupnih na skladištu. Međutim, na specifičan upit klijenta, možemo izraditi limove drugih formata i s drugim perforacijama.

Perforated sheet has countless applications and can be used in the most diverse areas of industry, agriculture and furnishing. The need for translucency, lightness or permeability combined with the resistance issue brought about the perforation of sheet metal, first with undeveloped systems and then with increasingly advanced technologies.

The standard format for perforated metal sheets is 1000x2000 mm. In this format, we provide a wide selection of perforations available on stock. However, at the specific request of a client, we can manufacture sheet metal in other formats and with other perforations.

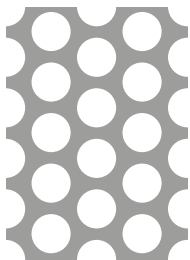


Tablica perforiranih limova raspoloživih s lagera ili na zahtjev Perforated sheets from stock or on demand

Artikl; Item: **LFR**

OKRUGLA PERFORACIJA Naizmjenično perforirano 60°; ROUND PERFORATION

Alternately perforated at 60°



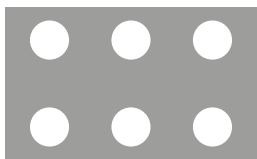
Ø mm	Korak Pitch mm	Debljina; Thickness mm									% perforacije % perforation	
		0,5	0,8	1,0	1,2	1,5	2,0	3,0	4,0	5,0		6,0
1	2,0	•	x	•								22,50
1,5	2,5	•	x	•								32,40
1,5	3,0	x			x	•						22,50
2	3,0	x	x	x								40,00
2	3,5	•	x	•								29,39
2	4,0	x	x	x	x	•	•					22,50
2,5	4,0	x	x	x	x	x	x					35,16
3	4,0	x	x	x	x							50,62
3	5,0	•	x	•	x	•	•					32,40
3	6,0				x	x	•					22,50
4	6,0	•	x	•	x	x	x					40,00
5	7,2	x	x	x	x	x	x					43,40
5	8,0	•	x	•	x	•	•	•				35,16
5	9,0							x	x			27,78
6	7,2	x	x	x	x	x	x					62,50
6	9,0	•	x	•	x	•	•	•				40,00
6	9,5			x	x	x	x					35,90
6	10,0				•		x	x				32,40
6	11,7							x	x			23,67
7	8,2	x	x	x	x							65,59
7	9,7	x	x	x	x	x	x					46,87
7	11,7							x	x			32,22
8	9,7		x	x	x							61,22
8	11,2		x	x								45,92
8	12,0	•	x	•	x	•	•	•				40,00
8	13,0							x	x			34,08
9	13,0				x	x	x					43,14
10	14,0	x	x	x	x	x	x					45,92
10	15,0			•	•	•	•	x	x			40,00

• = sa lagera/ from stock
AISI 304
x = na zahtjev; on demand

Ø mm	Passo mm	Debljina; Thickness mm									% perforacije % perforation		
		0,5	0,8	1,0	1,2	1,5	2,0	3,0	4,0	5,0		6,0	
10	16,4											x	33,46
12	15,0		x	x	x	x	x						57,60
12	18,0	x	x	x	x	•	•	x	x	x			40,00
12	21,0											x	29,39
14	17,0		x	x	x								61,40
14	20,0					x	x	x	x	x			44,10
15	20,0	x	x	x	x	•	•						50,62
15	20,5							x					48,19
15	23,5									x	x		36,67
15	25,2											x	31,89
16	19,0		x	x	x								63,82
16	22,2					x	x	x	x				46,75
16	23,5											x	41,72
18	21,0		x	x	x								66,12
18	26,0				x	x	x						43,14
18	25,2								x				45,92
18	27,0									x	x		40,00
20	23,0		x	x	x								68,05
20	27,8	x	x	x	x	x	x	x					46,58
20	27,0									x	x	x	49,38
25	32,4			x	x	x	x						53,58
25	34,2								x	x			48,09
25	37,7										x	x	39,58
30	37,7					x	x						56,99
30	41,8									x			46,36
30	47,1										x	x	36,51
40	53,83					x	x	x	x	x	x		49,70

Artikl; Item: **LFR**

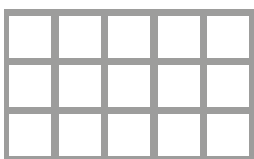
OKRUGLA PERFORACIJA pod 90° ROUND PERFORATION at 90°



Ø mm	Korak Pitch mm	Debljina; Thickness mm						% perforacije % perforation
		0,5	0,8	1,0	1,2	1,5	2,0	
5	12,5	x	x	x	x	x	x	12,56
5	25,0	x	x	x	x	x	x	3,14
6	12,5	x	x	x				18,09
6	25,0	x	x	x				4,52

Artikl; Item: **LFRQ**

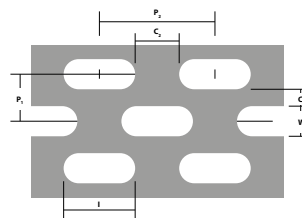
KVADRATNA PERFORACIJA SQUARE PERFORATION



Ø mm	Korak Pitch mm	Debljina; Thickness mm						% perforacije % perforation
		0,5	0,8	1,0	1,2	1,5	2,0	
5x5	7,0		x	•				51,00
8x8	10,0			•	x	•		64,00
8x8	12,0			•	•	•		44,00
10x10	12,5			•	x	x		64,00
10x10	13,0			x	x	•		59,00

Artikl; Item: **LFRA**

VALJKASTA PERFORACIJA OBLONG PERFORATION



Ø mm	Korak Pitch mm	Debljina; Thickness mm						% perforacije % perforation
		0,5	0,8	1,0	1,2	1,5	2,0	
20x2			x	x		•	•	52,80

P₁=6 mm P₂=25 mm
W=2 mm L=20 mm
C₁=4 mm C₂=5 mm

Rešetke i prešane rešetke od nehrđajućeg čelika

Stainless steel Grids and Pressed Grids

Rešetke po mjeri od inox čelika i paneli, proizvodnjom visoke kvalitete, ciljaju zadovoljavanju svih potreba kod izgradnje stambenih i industrijskih objekata.
With their high quality production, tailor-made stainless steel grids and panels aim to meet all requirements in the construction of housing and industrial buildings.

Artikl; Item: **GPE**

EUROSIGILLO OD INOX ČELIKA AISI 304; INOX STEEL EUROSIGILLO AISI 304

Uporaba: uklonjiva brtva za pregled betonskih šahtova ili šahtova od drugih materijala s mogućnošću jednake dorade okolnog popločavanja.

Use: removable seal for the inspection of concrete manholes or manholes made of other materials with the possibility of equal additional processing of the surrounding tiling.

Mjere; Measures H 50 mm

230 x 230

330 x 330

430 x 430

530 x 530

Artikl; Item: **GPCB**

REŠETKE OD INOX ČELIKA AISI 304 BEZ OKVIRA Dimenzije 1000 x 2000 mm

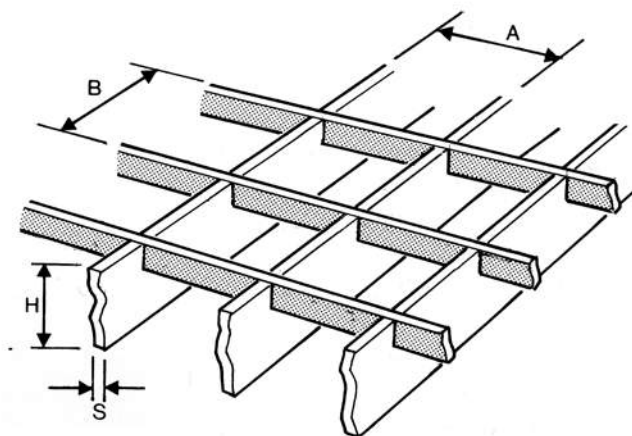
INOX STEEL AISI 304 EDGELESS PANELS Dimensions 1000 x 2000 mm

Otvor; Opening	Lim; Plate	Dorada; Additional processing	Težina; Weight Kg/m ²
33 x 33	25 x 2	Neobrađen; Untreated	18,24
33 x 33	25 x 2	Dekapirani; Pickled	18,24
25 x 25	25 x 2	Neobrađen; Untreated	24,50
25 x 25	25 x 2	Dekapirani; Pickled	24,50

Artikl; Item: **GP**

PREŠANA REŠETKA; PRESSED GRID

Rešetka je dobivena uprešavanjem poprečnih flahova, postavljenih smicanjem.
Grid has been achieved with clamping by placing the pressure in a bed of transverse beams, installed by sliding.



Otvor; Opening 30x30 (AxB=33x33)		Otvor; Opening 20x60 (AxB=23x66)		Otvor; Opening 20x50 (AxB=25x55)		Otvor; Opening 60x30 (AxB=66x33)		Otvor; Opening 50x15 (AxB=51x17)		Otvor; Opening 12x50 (AxB=15x53)		Otvor; Opening 30x10 (AxB=33x11)		Otvor; Opening 60x10 (AxB=66x11)		Otvor; Opening 30x60 (AxB=33x66)	
Nosiva šipka Bearing rod HxS	Težina Weight/m ²	Nosiva šipka Bearing rod HxS	Težina Weight/m ²	Nosiva šipka Bearing rod HxS	Težina Weight/m ²	Nosiva šipka Bearing rod HxS	Težina Weight/m ²	Nosiva šipka Bearing rod HxS	Težina Weight/m ²	Nosiva šipka Bearing rod HxS	Težina Weight/m ²	Nosiva šipka Bearing rod HxS	Težina Weight/m ²	Nosiva šipka Bearing rod HxS	Težina Weight/m ²	Nosiva šipka Bearing rod HxS	Težina Weight/m ²
25x3	27.0	25x3	31.0	50x4	82.0	25x3	18.0	25x2	19.5	25x3	45.5	25x2	27.5	25x2	23.0	25x3	23.5
30x3	31.0	30x3	36.5	60x4	89.0	30x3	20.5			30x3	53.5					30x3	27.5
35x3	35.0	35x3	42.0	70x4	102.5	35x3	23.0			35x3	61.0					35x3	31.5
40x3	39.0	40x3	51.0	80x4	116.0	25x2	14.0			40x3	70.0					40x3	35.5
50x3	47.0	25x2	23.0	90x4	129.5	30x2	15.5			50x3	86.5					50x3	43.5
60x3	55.0	30x2	27.0	100x4	143.0											60x3	51.5
25x2	19.5			50x5	92.5											25x2	17.5
30x2	22.5			60x5	109.5											30x2	19.5
				70x5	126.0												
				80x5	143.0												
				90x5	160.0												
				100x5	177.0												

Gripp: njegova nazubljena površina osigurava čvrsto prijanjanje potplata cipe-la dok guste perforacije naizmjenice prema gore i prema dolje, odvođe sve vrste prljavštine ili tekućine održavajući uvijek čistu površinu.

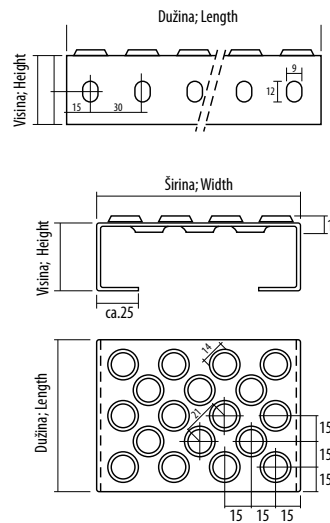
Gripp Tondo 25 (Okrugli Gripp 25): prošireni otvori rupa prema gore većine perforacija stvaraju površinu koja je visoko otporna na klizanje. Prošireni otvori rupa prema dolje trenutno odvođe nečistoće, vodu ili druge tekućine održavajući površinu rešetke uvijek čistom.

Artikl; Item: **GRIPP**- Artikl; Item: **GRIPPT**

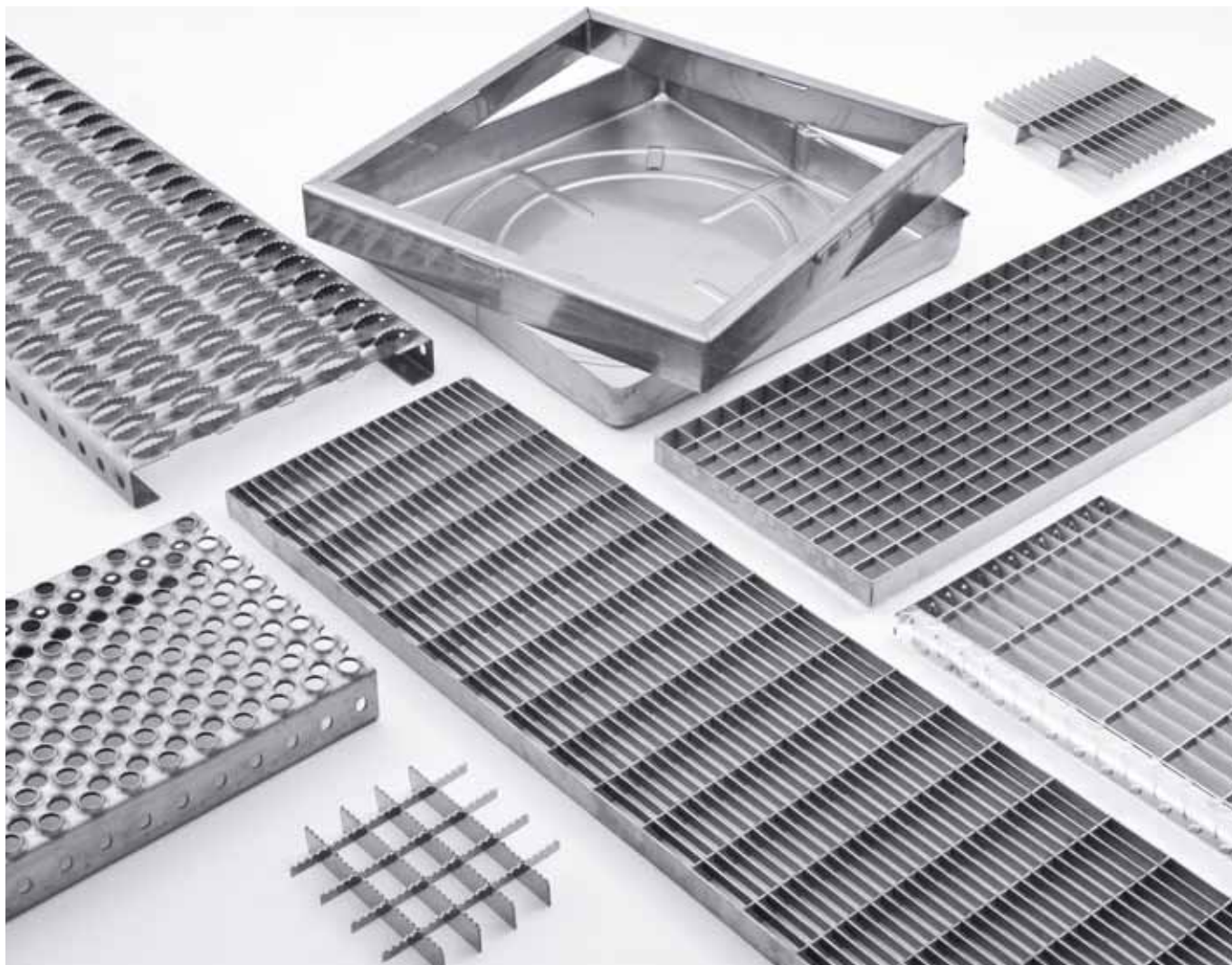
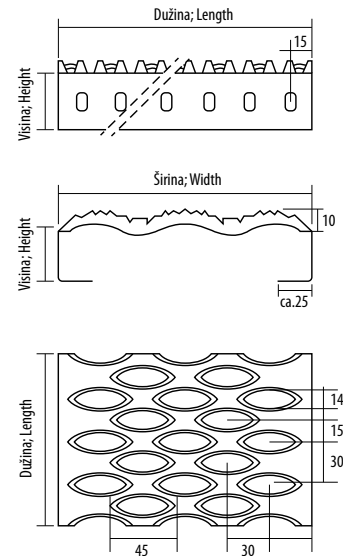
Materijali Materials	Dužina Length (mm)	Debljina Thickness (mm)	Visina Height (mm)	Širina Width (mm)
Inox čelik Inox steel AISI 304	1980	1,5	40	240
				300
				480

Dimenzije mogu lagano varirati iz tehnološko-proizvodnih razloga. Ostale dimenzije na upit.
Dimensions can slightly vary due to technological and production reasons.
Other dimensions on request.

OKRUGLI; ROUND GRIPP 25



GRIPP

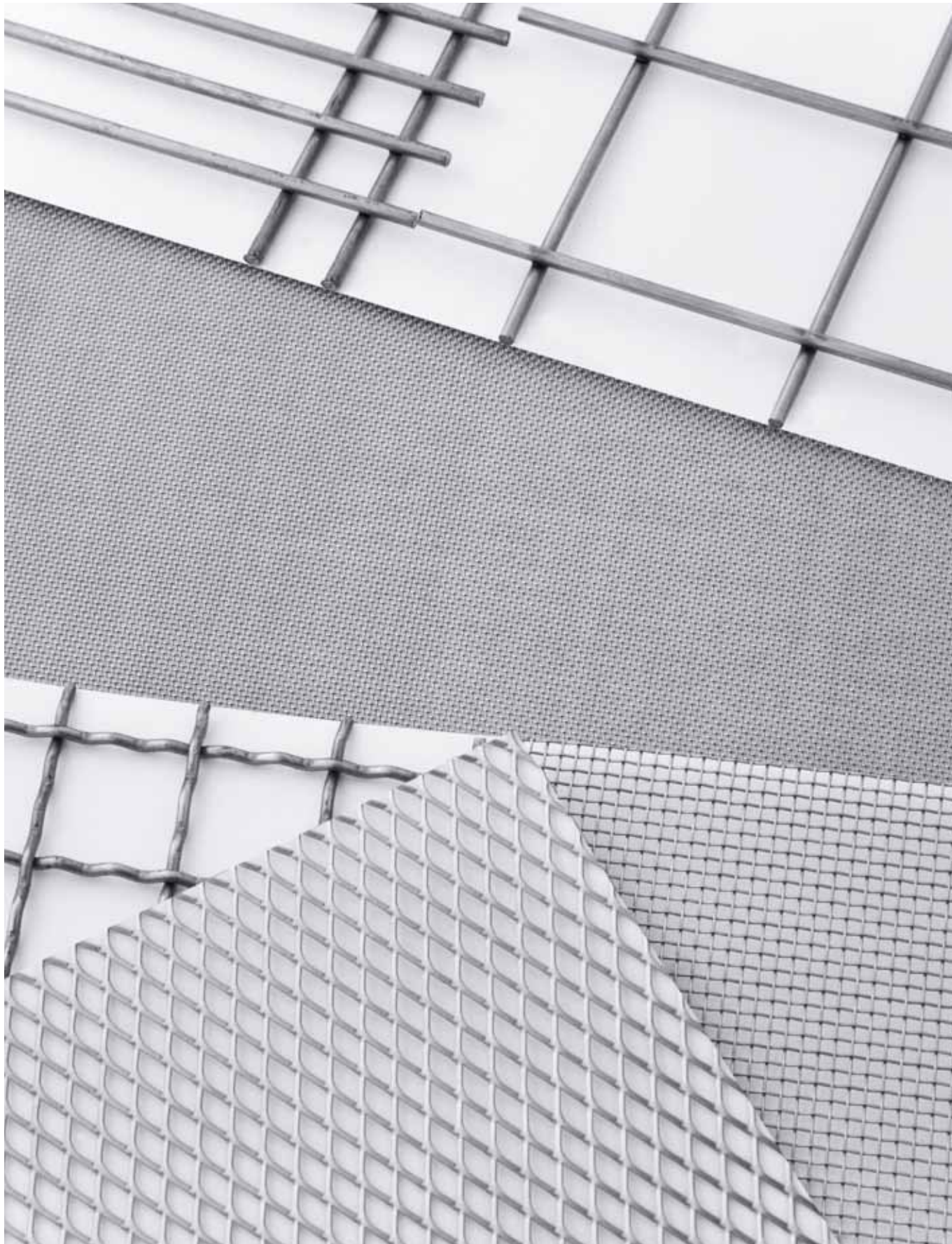


Zavarene mreže upotrebljavaju se za zaštitu strojeva, u stolarstvu, u industriji, u građevinarstvu, u opremanju itd. Zavarena mreža izrađuje se od kvadratnih, pravokutnih i drugih raznovrsnih otvora. Mreže se izrađuju od žice od inox čelika, od najmanje 2 mm do najviše 5 mm promjera.

Najveće dimenzije koje se mogu dobiti su 2500 x 4000 mm: unutar tih dimenzija mogu se proizvesti mreže s različitim vanjskim doradama, sa šiljcima, s izravnatim rubovima ili obrubljeni s jednim ili dva ruba. Na zahtjev možemo proizvesti i prilagođene personalizirane mreže.

Welded nets are used to protect machines, in joinery, industry, construction, furnishing etc. Welded mesh is manufactured with square, rectangular and other various openings. Panels are made of inox steel wire with a diameter ranging from 2 mm to 5 mm.

The largest dimensions available are 2500 x 4000 mm: within the scope of these dimensions, panels with various external finishing's can be manufactured, with pikes, levelled edges or trimmed with one or two edges. We can also manufacture personalized custom panels.

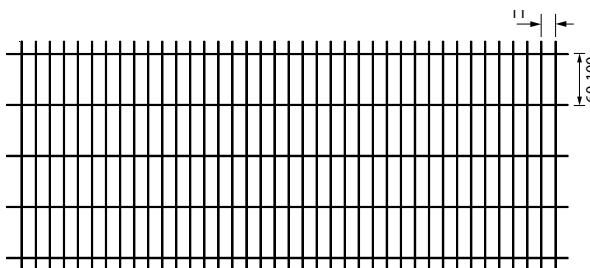
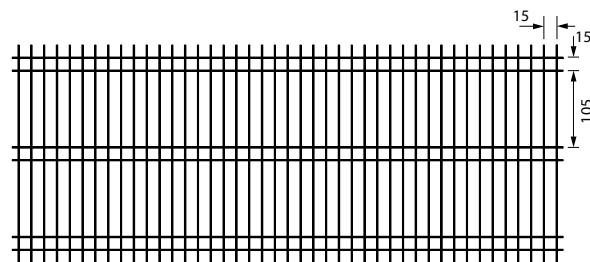


Serijska proizvodnja ovih mreža je iz AISI 304 materijala. Raspoloživo s lagera. Standard production is from AISI 304 material. Available on stock.

Artikl; Item: **RE**

ELEKTRO-ZAVARENE MREŽE ZA ZAŠTITU
ELECTRO-WELDED NETS FOR PROTECTION

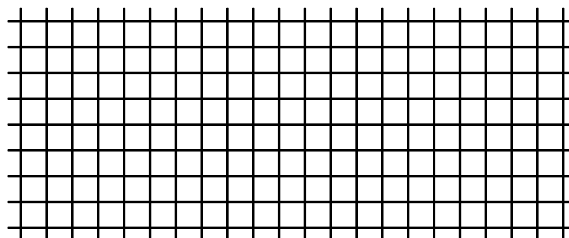
Svijetli otvor Mesh	Promjer žice Wire diameter	Dimenzija mreže Net dimension
mm		
60x11	2,85	1200x2400
100x11	2,85	1000x2000
105x15x105	2,85	1000x2000
105x15x105	2,85	1200x2400



Artikl; Item: **RE**

ELEKTRO-ZAVARENE MREŽE; ELECTRO-WELDED NETS

Svijetli otvor Mesh	Promjer žice Wire diameter	Dimenzija mreže Net dimension
mm		
20 x 20	2	1000 x 2000
20 x 20	2,85	1000 x 2000
25 x 25	2	1000 x 2000
25 x 25	2,85	1000 x 2000
30 x 30	2,85	1000 x 2000
30 x 30	2,85	1200 x 2400
40 x 40	2,85	1000 x 2000
40 x 40	2,85	1200 x 2400
40 x 40	4	1000 x 2000
40 x 40	4	1200 x 2400
50 x 50	2,85	1000 x 2000
50 x 50	2,85	1200 x 2400
50 x 50	4	1000 x 2000
50 x 50	4	1200 x 2400
50 x 50	5	1000 x 2000
50 x 50	5	1200 x 2400
100 x 100	4	1000x 2000
100 x 100	4	1200 x 2400
100 x 100	5	1000 x 2000
100 x 100	5	1200 x 2400



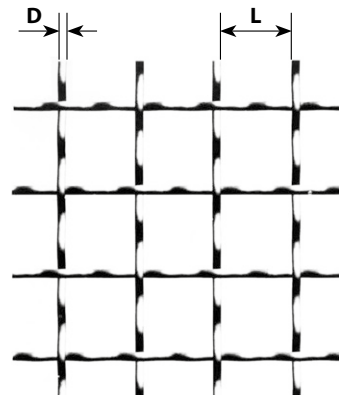
Valovito pletivo

Valovito je pletivo AISI 304 ono s najširoom uporabom. Upotrebljava se za izradu zaklona, pregrada, ograda, štitnika itd. Obično se proizvodi s kvadratnim otvorima. Na upit klijenta možemo ponuditi pletivo s romboidnim ili pravokutnim otvorima.

Artikli; Item: **REI**

L	D	P	A1	S
10x10	1,50	2,92	si	•
10x10	2,00	5,20	si	•
15x15	2,00	3,50	si	•
20x20	2,00	2,62	si	•
20x20	3,00	5,95	si	•
25x25	2,00	3,27	si	•
30x30	3,00	3,97	si	•
40x40	4,00	5,10	si	•

NETS in AISI 304 has the widest range of uses. It is used for manufacturing shelters, compartments, railings, shields, etc. They are usually made with square openings. At the client's request, we can offer webbing with rhomboid or rectangular openings.



Ekspandirani i mikro ekspandirani limovi

Ekspandirani su limovi mreže u jednom komadu koje se dobivaju rezanjem i istovremenim istezanjem lima. Otvori su svi čvrsto spojeni, bez zavarivanja i bez drugih sustava spajanja.

Mikro ekspandirane limove, koji se upotrebljavaju u sustavima filtera i za mnogo drugih namjena, možemo smatrati posebnom vrstom ekspandiranih limova od kojih se razlikuju malim dimenzijama otvora. U mogućnosti smo pružiti sve vrste mikro ekspandiranih limova s romboidnim, šesterokutnim ili drugim vrstama otvora.

Neka učestala područja primjene: sektor gradnje i građevinskih radova, automobilska industrija, mehanika, hidraulika, električna, stolarski radovi, opremanje, sigurnost u tvornicama. Kod mikro ekspandiranih limova korisno je poznavati teoriju prolaza svjetla koja omogućuje izbor koji je prikladan potrebama uporabe.

Extruded and Micro Extruded Metal Sheets

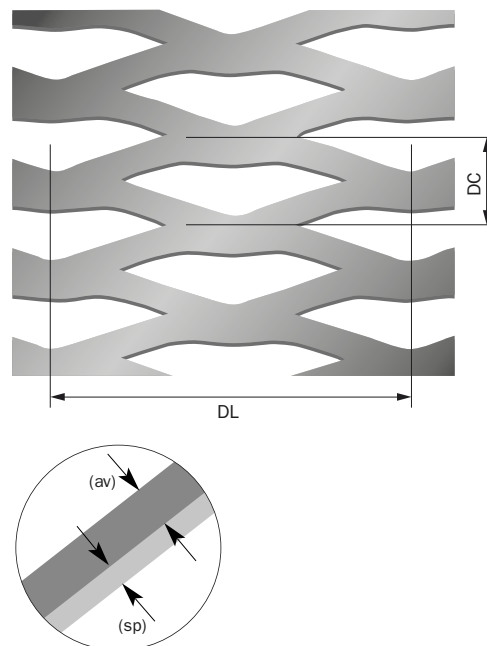
Extruded metal sheets is a mesh in one piece made by cutting and simultaneously drawing metal sheets. The openings are all tightly connected, without welding and other connecting systems.

Micro extruded metal sheets, used in filter systems and many other uses, can be considered a special type of extruded metal sheets that differs in its small opening dimensions. We are capable of offering all types of micro extruded metal sheets with rhomboid, hexagonal or other types of openings.

Some frequent areas of use: construction and construction work sector, the automotive industry, mechanics, hydraulics, electricity, joinery, furnishing and safety in factories. For micro extruded metal sheets, it is useful to know the theory of light passage that enables a selection suitable for the needs of use.

Artikli; Item: **LMS**

	DLxDC mm	Av mm	Sp mm	Težina na m ² u Kg Weight per m ² in Kg	Širina Width DL (mm)	Dužina Length DC (mm)	S
EKSPANDIRANI EXTRUDED	110x40	7	4	17	1000 1250	2000 2500	•
	realni; real 110x25,40						•
				Svjetlo Light MAX			
MIKRO EKSPANDIRANI MIKRO EXTRUDED	0,6x0,5	0,17	0,15	0,15			•
	0,75x0,5	0,20	0,15	0,20			•
	0,85x0,7	0,23	0,15	0,25			•
	1x0,7	0,15	0,15	0,30			•
	1x0,7	0,25	0,15	0,28			•
	1x0,7	0,23	0,20	0,25			•
	1,5x1	0,35	0,15	0,40			•
	1,5x1	0,35	0,20	0,40			•
	1,5x1	0,35	0,40	0,30			•
	2x1	0,40	0,15	0,50			•
	2x1	0,40	0,20	0,55			•
	2x1	0,40	0,40	0,35			•
	2,5x1,5	0,45	0,20	0,70			•
	2,5x1,5	0,45	0,30	0,60			•
	3x2	0,45	0,30	0,80			•
	3x2	0,45	0,50	0,90			•
4x2	0,60	0,50	1			•	



L = Svjetli otvor u mm; Opening in mm

D = Promjer u mm; Diameter in mm

P = Težina po m² u Kg; Weight per m² in Kg

A1 = Visina 1000 mm; Height 1000 mm

DL = Duga dijagonala u mm; Long diagonal in mm

DC = Kratka dijagonala u mm; Short diagonal in mm

Av = Pomak u mm; Displacement in mm

Sp = Debljina u mm; Thickness in mm

S = Stock ()

• = Raspoloživi materijal;
Material on stock

Metalna se tkanina izrađuje isprepletanjem žica koje međusobno tvore otvore s konstantnim prodorom svjetla.

Ove žice identificiramo kao osnove i potke. Osnovu čine žice koje su paralelne dužini tkanine dok potku čine žice koje su paralelne sa širinom tkanine.

Elementi koji su bitni za pravilan izbor metalnih tkanina su sljedeći:

- osnovni materijal
- širina i dužina tkanine
- identifikacijski broj vrste tkanine
- promjer žice

Identifikacijski broj vrste tkanine može po izboru biti izražen na sljedeći način:

- francuski broj = broj otvora sadržanih u francuskom inču (27,78 mm)
- mesh broj = broj otvora sadržanih u engleskom inču (25,40 mm)
- nit = broj otvora sadržanih u 50 mm
- broj otvora u 1 cm²

Uz prethodno navedene podatke može se naznačiti svjetlost otvora = dimenzija koja je izmjerena između dvije žice. Tkanine sa standardnim kvadratnim otvorima proizvode se od kompaktne tkanine. S jednakim svojstvima svjetla i promjera možemo proizvesti:

Žičano pletivo: uobičajeni naziv za mreže sa žicama koje su veće od 1 mm je žičano pletivo te se identificiraju sa svjetlom otvora i promjerom žice.

Vrste materijala: AISI 304 – AISI 304L – AISI 309 – AISI 310 – AISI 316 – AISI 316L.

Artikl; item: **TELA** (MREŽA; MESH)

NrFr	Mesh	D	L	S	P*
4,50	4,11	1	5,17	70,2	2,16
7,00	6,40	1	2,97	56	3,36
8,00	7,31	0,5	2,97	73,3	0,96
9,00	8,23	1	2,09	45,7	4,32
11,00	10,06	0,5	2,03	64,3	1,32
16,00	14,63	0,4	1,34	59,2	1,22
18,00	16,46	0,5	1,04	45,7	2,16
20,00	18,29	0,2	1,19	73,3	0,38
22,50	20,57	0,24	1	64,9	0,62
22,50	20,57	0,45	0,79	40,4	2,18
25,00	22,86	0,2	0,91	67,2	0,48
35,00	32,00	0,4	0,39	24,6	2,68
40,00	36,57	0,2	0,5	50,7	0,76
50,00	45,72	0,2	0,36	41	0,96
55,00	50,29	0,14	0,37	52,2	0,51
60,00	54,86	0,12	0,34	54,9	0,41
60,00	54,86	0,18	0,28	37,4	0,93
65,00	59,43	0,2	0,23	28,3	1,24
70,00	64,00	0,14	0,26	41,9	0,65
80,00	73,15	0,12	0,23	42,8	0,55
140,00	128,01	0,08	0,12	35,6	0,43

NrFr = Broj otvora u 27,78 mm; Number of openings in 27.78 mm

Mesh = Broj otvora u 25,4 mm; Number of openings in 25.4 mm

L = Svjetli otvor u mm; Opening in mm

D = Promjer u mm; Diameter in mm

S = Korisna površina %; Useful surface %

P = Težina po m² u Kg; Weight per m² in Kg

* = Teorijska težina za čelik; Theoretical weight for steel

Metal fabric is made by interlacing wires that mutually create openings with a constant light penetration.

These wires are identified as wefts and warps. The weft consists of wires that are parallel to the length of the fabric, while a warp consists of wires parallel to the width of the fabric.

The elements crucial for the proper selection of metal fabrics are the following:

- basic material
- width and length of the fabric
- identification number of the fabric type
- wire diameter

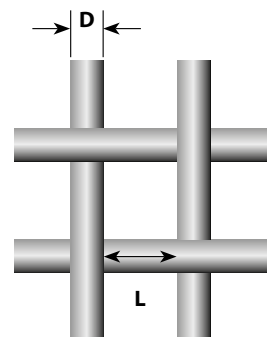
The identification number of the fabric type can be expressed according to your selection in the following manner:

- French number = number of openings contained in a French inch (27.78 mm)
- mesh number = number of openings contained in an English inch (25.40 mm)
- strand = number of openings contained in 50 mm
- number of openings in 1 cm²

Along with the aforementioned particulars, the opening light can be designated = a dimension measured between two wires. Fabrics with standard square openings are manufactured with a compact weave. With equal properties of light and diameter, we can manufacture:

Wire clothes: a regular name for meshes with wires that are larger than 1 mm is wire fabric and they are identified by their opening light and wire diameter.

Types of material: AISI 304 – AISI 304L – AISI 309 – AISI 310 – AISI 316 – AISI 316L.





Marinox

cijevi tubes

Velika raspoloživost cijevi Laser-TIG, HF, poliranih i satiniranih, mehaničkih cijevi, bešavnih cijevi, posebnih profila.

A wide range of TUBES: Laser-TIG, HF, polished and Scotch brite, mechanical tubes, seamless tubes, and special profiles.

- 32** okrugle šavne cijevi
round welded tubes
- 34** maksimalni radni tlak cijevi
maximum tube working pressure
- 35** profilirane cijevi od inox čelika
S.s steel profiled tubes
- 36** inox prozorski profili
tube profiles for closures
- 37** cijevi, fleksibilne cijevi i lukovi
tubes, flexible tubes and elbows
- 38** dimenzije bešavnih cijevi
seamless tube dimensions
- 40** kapilarne cijevi i bešavne cijevi
capillary tubes and seamless pipes
- 41** deblostijene cijevi
hollow rods

Okrugle cijevi Round tubes



Teorijska težina u Kg po linearnom metru. Theoretical weight in Kg per linear meter

Promjer Diameter (mm)	DN	Promjer Diameter PLIN; GAS	Debljina u mm; Thickness in mm																		
			0,4	0,5	0,6	0,8	1	1,2	1,5	1,6	2	2,3	2,5	2,6	3	3,2	3,6	4	5	6	
2			-	0,019	0,021	0,024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,5			-	0,025	0,029	0,034	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3			-	0,032	0,036	0,044	0,050	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4			-	0,045	0,050	0,065	0,075	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5			-	0,060	0,065	0,085	0,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6			0,053	0,069	0,081	0,104	0,125	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7			-	0,085	0,095	0,125	0,150	0,175	0,210	-	-	-	-	-	-	-	-	-	-	-	-
7,5			0,710	0,090	0,105	0,135	0,165	0,190	0,225	-	-	-	-	-	-	-	-	-	-	-	-
8			0,076	0,094	0,111	0,144	0,175	0,204	0,244	-	-	-	-	-	-	-	-	-	-	-	-
9			-	0,110	0,125	0,165	0,200	0,220	0,285	-	-	-	-	-	-	-	-	-	-	-	-
9,5			0,910	0,115	0,135	0,175	0,215	0,250	0,300	-	-	-	-	-	-	-	-	-	-	-	-
10	6	1/8"	0,096	0,119	0,141	0,184	0,225	0,264	0,319	-	-	-	-	-	-	-	-	-	-	-	-
12			0,116	0,147	0,171	0,224	0,275	0,325	0,394	0,428	0,501	-	-	-	-	-	-	-	-	-	-
13			0,126	0,157	0,186	0,244	0,300	0,355	0,432	0,469	0,551	-	-	-	-	-	-	-	-	-	-
14	8	1/4"	0,136	0,169	0,201	0,264	0,326	0,385	0,470	0,510	0,601	-	-	-	-	-	-	-	-	-	-
15			0,146	0,182	0,216	0,284	0,351	0,415	0,507	0,552	0,651	-	-	-	-	-	-	-	-	-	-
16			0,156	0,194	0,231	0,304	0,376	0,445	0,545	0,577	0,701	-	-	-	-	-	-	-	-	-	-
17,2	10	3/8"	-	-	-	0,329	0,406	0,481	0,590	0,625	0,761	0,858	-	-	-	-	-	-	-	-	-
18			-	-	-	0,345	0,426	0,505	0,620	0,657	0,801	-	-	-	-	-	-	-	-	-	-
19,05			-	-	-	0,366	0,452	0,536	0,659	0,699	0,854	-	-	-	-	-	-	-	-	-	-
20			-	0,250	-	0,385	0,476	0,565	0,695	0,737	0,901	-	1,095	-	1,277	-	-	-	-	-	-
21,3	15	1/2"	-	-	-	0,411	0,508	0,604	0,744	0,789	0,967	1,094	1,177	1,217	1,380	-	-	-	-	-	-
22			-	-	-	0,425	0,526	0,625	0,770	0,817	1,002	-	-	-	-	-	-	-	-	-	-
24			-	-	-	0,465	0,576	0,685	0,845	0,897	1,102	-	-	-	-	-	-	-	-	-	-
25			-	-	-	0,485	0,601	0,715	0,883	0,937	1,152	1,307	1,409	1,458	1,652	-	-	-	-	-	-
25,4			-	-	-	0,493	0,611	0,727	0,898	0,954	1,172	1,330	1,434	1,484	1,682	-	-	-	-	-	-
26,9	20	3/4"	-	-	-	0,523	0,649	0,772	0,954	1,014	1,247	1,417	1,527	1,582	1,795	-	-	-	-	-	-
28			-	-	-	0,545	0,676	0,805	0,995	1,058	1,302	1,480	1,596	1,654	1,878	-	-	-	-	-	-
30			-	-	-	0,585	0,726	0,865	1,070	1,138	1,402	1,595	1,722	1,784	2,028	-	-	-	-	-	-
32			-	-	-	0,625	0,776	0,925	1,146	1,218	1,502	1,710	1,847	1,914	2,178	-	-	-	-	-	-
33,7	25	1"	-	-	-	0,659	0,819	0,977	1,209	1,286	1,588	1,808	1,953	2,025	2,306	2,444	-	-	-	-	-
34			-	-	-	0,665	0,826	0,986	1,221	1,298	1,603	1,826	1,972	2,044	2,329	2,468	-	-	-	-	-
35			-	-	-	0,685	0,851	1,016	1,258	1,338	1,653	1,883	2,035	2,109	2,404	2,548	-	-	-	-	-
38			-	-	-	0,745	0,926	1,106	1,371	1,458	1,803	2,056	2,222	2,305	2,629	2,788	-	-	-	-	-
40			-	-	-	0,785	0,977	1,166	1,446	1,538	1,903	2,171	2,348	2,435	2,779	2,949	-	-	-	-	-
42			-	-	-	0,825	1,027	1,226	1,521	1,619	2,003	2,286	2,473	2,565	2,930	3,109	-	-	-	-	-
42,4	32	1.1/4"	-	-	-	0,833	1,037	1,238	1,536	1,635	2,023	2,309	2,498	2,591	2,960	3,141	3,498	3,847	-	-	-
44,5			-	-	-	0,875	1,089	1,301	1,615	1,719	2,128	2,430	2,629	2,728	3,117	3,309	3,687	-	-	-	-
45			-	-	-	0,885	1,102	1,316	1,634	1,739	2,153	2,459	2,661	2,760	3,155	3,349	3,732	-	-	-	-
48,3	40	1.1/2"	-	-	-	0,952	1,184	1,415	1,758	1,871	2,319	2,649	2,867	2,975	3,403	3,614	4,029	4,437	-	-	-
50			-	-	-	0,986	1,227	1,466	1,822	1,939	2,404	2,747	2,974	3,086	3,531	3,750	4,183	-	-	-	-
50,8			-	-	-	1,002	1,247	1,490	1,852	1,971	2,444	2,793	3,024	3,138	3,591	3,814	4,255	-	-	-	-
51			-	-	-	-	1,252	1,496	1,859	1,979	2,454	2,805	3,036	3,151	3,606	3,830	4,273	-	-	-	-
52			-	-	-	-	1,277	1,526	1,897	2,019	2,504	2,862	3,099	3,216	3,681	3,910	4,363	-	-	-	-
53			-	-	-	-	1,302	1,556	1,934	2,059	2,554	2,920	3,161	3,281	3,756	3,990	4,453	-	-	-	-
54			-	-	-	-	1,327	1,587	1,972	2,099	2,604	2,978	3,224	3,346	3,831	4,071	4,543	-	-	-	-
57			-	-	-	-	1,402	1,677	2,085	2,220	2,754	3,150	3,412	3,542	4,056	4,311	4,814	-	-	-	-
60,3	50	2"	-	-	-	-	1,485	1,776	2,209	2,352	2,920	3,340	3,618	3,757	4,304	4,575	5,111	5,640	-	-	-
63,5			-	-	-	-	-	1,872	2,329	2,480	3,080	3,525	3,819	3,965	4,545	4,832	5,400	5,960	-	-	-



Teorijska težina u Kg po linearnom metru. Theoretical weight in Kg per linear meter

Promjer Diameter (mm)	DN	Promjer Diameter PLIN; GAS	Debljina u mm; Thickness in mm																		
			0,4	0,5	0,6	0,8	1	1,2	1,5	1,6	2	2,3	2,5	2,6	3	3,2	3,6	4	5	6	
70			-	-	-	-	-	-	2,067	2,573	2,740	3,405	3,899	4,226	4,388	5,033	5,353	5,986	6,611	-	-
73			-	-	-	-	-	-	2,157	2,686	2,861	3,556	4,072	4,413	4,583	5,258	5,593	6,256	-	-	-
76,1	65	2.1/2"	-	-	-	-	-	-	2,251	2,802	2,985	3,711	4,250	4,607	4,785	5,491	5,841	6,535	7,222	-	-
80			-	-	-	-	-	-	2,368	2,948	3,141	3,906	4,475	4,852	5,039	5,784	6,154	6,887	7,612	-	-
83			-	-	-	-	-	-	2,458	3,061	3,261	4,056	4,648	5,039	5,234	6,010	6,394	7,157	7,913	-	-
84			-	-	-	-	-	-	2,488	3,099	3,301	4,107	4,705	5,102	5,299	6,085	6,474	7,248	8,013	-	-
85			-	-	-	-	-	-	2,518	3,136	3,341	4,157	4,763	5,165	5,365	6,160	6,554	7,338	8,113	-	-
88,9	80	3"	-	-	-	-	-	-	2,635	3,283	3,498	4,352	4,987	5,409	5,618	6,453	6,867	7,689	8,504	-	-
101,6	90	3.1/2"	-	-	-	-	-	-	-	3,760	4,006	4,988	5,719	6,204	6,445	7,407	7,885	8,834	9,776	-	-
104			-	-	-	-	-	-	3,850	4,103	5,108	5,857	6,354	6,602	7,587	8,077	9,050	10,016	-	-	
108			-	-	-	-	-	-	4,000	4,263	5,308	6,087	6,604	6,862	7,888	8,397	9,411	10,417	-	-	
114,3	100	4"	-	-	-	-	-	-	-	4,237	4,515	5,624	6,450	6,999	7,272	8,361	8,902	9,979	11,048	-	-
127			-	-	-	-	-	-	4,714	5,024	6,260	7,182	7,794	8,099	9,315	9,920	11,124	12,320	15,274	-	-
128			-	-	-	-	-	-	4,751	5,064	6,310	7,239	7,856	8,164	9,390	10,000	11,214	12,420	15,400	-	-
129			-	-	-	-	-	-	4,789	5,104	6,360	7,297	7,919	8,229	9,465	10,080	11,304	12,520	15,525	-	-
139,7	125	5"	-	-	-	-	-	-	5,191	5,533	6,896	7,913	8,589	8,926	10,269	10,937	12,269	13,592	16,864	20,087	-
153			-	-	-	-	-	-	5,690	6,066	7,562	8,679	9,421	9,792	11,268	12,003	13,468	14,924	18,530	22,085	-
154			-	-	-	-	-	-	5,728	6,106	7,612	8,737	9,484	9,857	11,343	12,083	13,558	15,024	18,655	22,236	-
156			-	-	-	-	-	-	5,803	6,186	7,712	8,852	9,609	9,987	11,493	12,244	13,738	15,224	18,905	22,536	-
159			-	-	-	-	-	-	5,916	6,306	7,863	9,025	9,797	10,182	11,719	12,484	14,008	15,525	19,281	22,897	-
168,3	150	6"	-	-	-	-	-	-	6,265	6,679	8,328	9,560	10,379	10,788	12,417	13,229	14,847	16,456	20,445	24,384	-
203			-	-	-	-	-	-	-	-	-	10,066	11,559	12,551	13,047	15,024	16,010	17,975	19,932	24,790	29,597
204			-	-	-	-	-	-	-	-	-	10,116	11,616	12,614	13,112	15,099	16,090	18,065	20,032	24,915	29,748
205			-	-	-	-	-	-	-	-	-	10,166	11,674	12,677	13,177	15,174	16,170	18,155	20,132	25,040	29,898
206			-	-	-	-	-	-	-	-	-	10,216	11,731	12,739	13,242	15,249	16,250	18,245	20,232	25,165	30,048
219,1	200	8"	-	-	-	-	-	-	-	-	-	10,872	12,486	13,559	14,095	16,233	17,300	19,426	21,544	26,805	32,016
253			-	-	-	-	-	-	-	-	-	12,570	14,438	15,681	16,302	18,780	20,016	22,482	24,940	31,050	37,109
254			-	-	-	-	-	-	-	-	-	12,620	14,496	15,744	16,367	18,855	20,096	22,572	25,040	31,175	37,260
255			-	-	-	-	-	-	-	-	-	12,670	14,553	15,807	16,432	18,930	20,176	22,662	25,140	31,300	37,410
256			-	-	-	-	-	-	-	-	-	12,720	14,611	15,869	16,497	19,005	20,256	22,752	25,240	31,425	37,560
273	250	10"	-	-	-	-	-	-	-	-	-	13,572	15,590	16,933	17,604	20,282	21,619	24,285	26,943	33,554	40,114
304			-	-	-	-	-	-	-	-	-	15,124	17,376	18,874	19,622	22,611	24,103	27,079	30,048	37,435	44,772
305			-	-	-	-	-	-	-	-	-	15,174	17,433	18,937	19,687	22,686	24,183	27,169	30,148	37,560	44,922
306			-	-	-	-	-	-	-	-	-	15,224	17,491	18,999	19,753	22,761	24,263	27,260	30,248	37,685	45,072
323,9	300	12"	-	-	-	-	-	-	-	-	-	16,121	18,522	20,120	20,918	24,106	25,697	28,873	32,041	39,926	47,761
353			-	-	-	-	-	-	-	-	-	17,578	20,198	21,941	22,812	26,292	28,029	31,496	34,956	43,570	52,133
354			-	-	-	-	-	-	-	-	-	17,628	20,255	22,004	22,878	26,367	28,109	31,586	35,056	43,695	52,284
355,6	350	14"	-	-	-	-	-	-	-	-	-	17,708	20,347	22,104	22,982	26,487	28,237	31,731	35,216	43,895	52,524
406,4	400	16"	-	-	-	-	-	-	-	-	-	20,252	23,273	25,284	26,289	30,303	32,308	36,310	40,304	50,255	60,156
457	450	18"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45,370	56,590	67,760
506			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,280	62,730	75,120
508	500	20"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,480	63,980	75,420
609,6	600	24"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60,660	75,700	90,690
711			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70,810	88,390	105,920

Artikl; Item: **TEL** (šavna cijev, lasersko zavarivanje Laser - TIG; welded tube, laser welding Laser - TIG)
 Artikl; Item: **THF** (šavna cijev, visokofrekventno zavarivanje; welded tube, high frequency welding)
 Artikl; Item: **TER** (šavna cijev, lasersko zavarivanje Laser – TIG, žarena max Ø219; welded tube, laser welding Laser - TIG, annealed max Ø 219)
 Artikl; Item: **TLN** (šavna cijev, lasersko zavarivanje Laser - TIG, polirane; welded tube, laser welding Laser - TIG, ship polishing)
 Artikl; Item: **TIE** (šavna cijev, za prehrambenu industriju, lasersko zavarivanje Laser - TIG, vanjsko/unutarnje poliranje; welded tube, for food industry, laser welding Laser - TIG, internal/external polishing)
 Artikl; Item: **TEE** (šavna cijev, za prehrambenu industriju, lasersko zavarivanje Laser - TIG, vanjsko poliranje; welded tube, for food industry, laser welding Laser - TIG, external polishing)
 Artikl; Item: **THFS** (šavna satinirana cijev, visokofrekventno zavarivanje; welded Scotch brite tube, high frequency welding)
 Artikl; Item: **TELS** (šavna satinirana cijev, lasersko zavarivanje Laser - TIG; welded Scotch brite tube, laser welding Laser – TIG)

Okrugle cijevi od Ø 2,5 do Ø 771 mm.
 Završna obrada: dekapirano, četkano ili satinirano.
 Komercijalna dužina 6 m.
 Round tubes from Ø 2.5 to Ø 771 mm.
 The final processing: pickled, brushed or scotch brite.
 Commercial length is 6 m.

Standardne dimenzije su podebljane crnom bojom.
Standard dimensions are in bold.

Tablica maksimalno dopuštenog radnog tlaka (u BAR) pri temperaturi 20°C za šavne cijevi prema standardu DIN 17457 - 11850; NFA 49147 - 49247 - 49249; ASTM A 249 - A269 - A 270.

Maximum allowed working pressure at 20°C for welded tubes according to standard DIN 17457 - 11850; NFA 49147 - 49247 - 49249; ASTM A 249 - A269 - A 270.

Vanjski promjer Eksternal diameter (mm)	Debljina stijenke; Thickness (mm)																	
	1	1,5	2	2,5	3	3,5	4	5	6	7	8	9	10	11	12	13	14	15
20	87	132	179															
21,3	81	124	168	213														
25	69	106	144	181	205													
26,9	64	98	133	169	191													
30	58	88	120	151	171													
33,7	51	78	106	134	152	182												
38	45	69	94	119	135	161												
42,4	41	62	84	107	121	144	163											
44,5	39	59	88	102	115	137	155	208										
48,3	36	54	74	94	106	126	143	192										
57	30	46	63	79	107	121	163	197										
60,3	28	44	59	75	85	101	114	154	186									
76,1	22	34	47	59	67	80	90	122	147	200								
88,9	19	29	40	51	57	69	77	104	126	149	171	193						
108	16	24	33	42	47	56	64	86	104	122	141	159	177					
114,3	15	23	31	39	44	53	60	81	98	115	133	150	167	181				
133	13	19	27	34	38	46	52	62	69	84	99	114	129	144	156	170	185	
139,7	12	18	25	32	36	43	49	66	80	94	109	123	137	148	162	176	191	
159		16	22	28	32	38	43	58	70	83	95	108	120	130	142	155	167	180
168,3		15	21	27	30	36	41	55	66	78	90	102	113	123	134	146	158	170
216		12	16	21	23	28	32	43	52	61	70	79	88	96	105	114	123	132
219,1		12	16	20	23	27	31	42	51	60	69	78	87	95	103	112	122	130
267		9	13	17	19	22	25	34	42	49	57	64	71	78	85	92	100	107
273		9	13	16	18	22	25	34	41	48	55	63	70	76	83	90	97	105
318		8	11	14	16	19	21	29	35	41	47	54	60	65	71	76	84	90
323,9		8	11	14	15	18	21	28	34	40	47	53	59	64	70	76	82	88
355,6		7	10	12	14	17	19	26	31	37	42	48	53	58	63	69	75	80
368		7	9	12	13	16	18	25	30	36	41	46	52	56	61	67	72	78
406,4			8	11	12	15	17	22	27	32	37	42	47	51	58	60	65	70
419			10	12	14	16	22	26	31	36	41	45	49	54	58	63	68	70
508			7	8	10	12	13	18	22	26	29	33	37	40	44	48	52	56
521			6	8	9	11	13	17	21	25	29	33	36	39	43	47	51	55
609,6				7	8	10	11	15	18	21	25	28	31	34	37	40	43	47
622				7	8	9	11	14	18	21	24	27	30	33	36	39	43	46
711,2				6	7	8	9	13	15	18	21	24	26	29	31	34	37	40
720				6	7	8	9	12	15	21	23	26	28	31	34	37	39	42
812,8				5,5	6	7	8	11	13	16	18	21	23	25	27	30	32	35
820				5,5	6	7	8	11	13	16	18	20	23	25	27	30	32	34
914,4				4,5	5,5	6	7	10	12	14	16	18	20	22	24	27	29	31
920				4,5	5,5	6	7	10	12	14	16	18	20	22	24	26	29	31
1016				4	5	6	6	9	10	13	14	16	18	20	22	24	26	28
1020				4	5	6	6	9	10	13	14	16	18	20	22	24	26	28

Formula za izračun maksimalno dopuštenog radnog tlaka Maximum allowed pressure calculation

Tlak u "bar" u ovisnosti o vanjskom promjeru i debljini stijenke cijevi; Pressure in "bar" in dependence of the outer diameter and thickness of the tube.

**MAKSIMALNI DOPUŠTENI RADNI
TLAK ZA INOX CIJEVI
MAXIMUM ALLOWED PRESSURE
FOR STAINLESS STEEL TUBES**

$$304 / \frac{2800 \times \text{s.p.}}{\varnothing e} : 1,5$$

2800 = fiksni broj; fixed unit

$$316 / \frac{3200 \times \text{s.p.}}{\varnothing e} : 1,5$$

3200 = fiksni broj; fixed unit

Kvadratne cijevi Square tubes



Artikl; Item: **TBQ**

Artikl; Item: **TQL** (ovalne cijevi; oval tubes) - **TQS** (brušene; brushed)

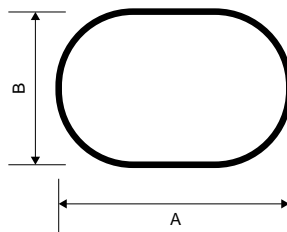
dimenzija dimension (mm)	Debljina stijenke; Thickness (mm)									
	1	1,2	1,5	2	2,5	3	4	5	6	6,0
10 x 10	0,294	-	-	-	-	-	-	-	-	-
12 x 12	0,358	0,415	0,508	-	-	-	-	-	-	-
12,7 x 12,7	0,406	0,481	0,590	-	-	-	-	-	-	-
15 x 15	0,453	0,538	0,661	-	-	-	-	-	-	-
16 x 16	0,485	0,576	0,709	0,920	-	-	-	-	-	-
20 x 20	0,613	0,729	0,900	1,175	-	-	-	-	-	-
25 x 25	0,772	0,921	1,140	1,494	1,846	2,167	-	-	-	-
30 x 30	0,932	1,112	1,379	1,813	2,222	2,645	-	-	-	-
32 x 32	0,996	1,189	1,475	1,941	-	-	-	-	-	-
34 x 34	1,059	1,265	1,570	2,068	-	3,028	-	-	-	-
35 x 35	1,091	1,304	1,618	2,133	2,635	3,124	-	-	-	-
38 x 38	1,187	1,418	1,762	2,324	-	3,410	-	-	-	-
40 x 40	1,251	1,495	1,858	2,452	3,033	3,602	4,703	-	-	-
45 x 45	1,410	1,686	2,097	2,771	3,432	4,081	-	-	-	-
50 x 50	1,570	1,878	2,336	3,090	3,831	4,559	5,979	7,349	-	-
60 x 60	-	-	2,814	3,728	4,628	5,516	7,255	8,943	-	-
70 x 70	-	-	3,293	4,366	5,426	6,473	8,531	10,538	-	-
80 x 80	-	-	3,771	5,004	6,223	7,430	9,807	12,133	14,410	-
100 x 100	-	-	4,728	6,279	7,818	9,344	12,359	15,323	18,237	-
120 x 120	-	-	-	7,555	9,413	11,258	14,910	18,513	22,065	-
150 x 150	-	-	-	9,469	11,805	14,129	18,738	23,298	27,807	-
175 x 175	-	-	-	11,064	-	16,521	21,928	27,285	-	-
200 x 200	-	-	-	12,659	15,793	18,913	25,118	31,272	37,376	-
250 x 250	-	-	-	-	-	23,698	31,497	39,247	-	-

Ovalne cijevi Oval tubes



Artikl; Item: **TEO**

AxB mm	Debljina stijenke; Thickness mm	Težina; Weight Kg/m
30x15	1,5	0,898
38,5x20	1,5	1,146



Završna obrada dekapirana, četkana, polirana ili brušena različitim granulacijama.

Standardne dimenzije su podebljane crnom bojom.

Final surface finish pickled, polished or brushed with different grits.

Standard dimensions are in bold.

Pravokutne cijevi Rectangular tubes



Artikl; Item: **TBR**

Artikl; Item: **TRS** (brušene; brushed)

dimenzija dimension (mm)	Debljina stijenke; Thickness (mm)									
	1	1,2	1,5	2	2,5	3	4	5	6	6,0
15 x 10	0,370	0,440	0,540	-	-	-	-	-	-	-
20 x 10	0,453	0,538	0,661	-	-	-	-	-	-	-
20 x 15	0,533	0,634	0,781	1,016	-	-	-	-	-	-
25 x 10	0,533	0,634	0,781	-	-	-	-	-	-	-
25 x 15	0,613	0,729	0,900	1,175	-	-	-	-	-	-
25 x 20	0,693	0,825	1,020	1,335	-	-	-	-	-	-
30 x 10	0,613	0,729	0,901	1,176	-	-	-	-	-	-
30 x 15	0,693	0,825	1,020	1,335	-	-	-	-	-	-
30 x 20	0,772	0,921	1,140	1,495	1,837	2,167	-	-	-	-
30 x 25	0,840	1,000	1,240	1,630	-	-	-	-	-	-
35 x 15	0,760	0,910	1,130	1,480	-	-	-	-	-	-
35 x 20	0,852	1,017	1,259	1,654	2,036	2,406	-	-	-	-
40 x 10	0,760	0,910	1,130	1,480	-	-	-	-	-	-
40 x 15	0,852	1,017	1,259	1,654	2,036	2,406	-	-	-	-
40 x 20	0,932	1,112	1,379	1,814	2,236	2,645	-	-	-	-
40 x 27	1,044	1,246	1,547	2,307	2,515	2,980	-	-	-	-
40 x 30	1,091	1,304	1,618	2,133	2,635	3,124	-	-	-	-
50 x 20	1,091	1,304	1,618	2,133	2,635	3,124	-	-	-	-
50 x 25	1,171	1,399	1,738	2,292	2,834	3,363	-	-	-	-
50 x 30	1,251	1,495	1,858	2,452	3,033	3,602	-	-	-	-
50 x 40	1,410	1,686	2,097	2,771	3,432	4,081	-	-	-	-
60 x 20	1,251	1,495	1,858	2,452	3,033	3,602	-	-	-	-
60 x 30	1,410	1,686	2,097	2,771	3,432	4,081	-	-	-	-
60 x 40	-	-	2,336	3,090	3,831	4,559	5,979	-	-	-
70 x 20	-	-	2,050	2,710	3,360	4,000	-	-	-	-
70 x 30	-	-	2,290	3,030	3,760	4,480	-	-	-	-
70 x 40	-	-	2,575	3,409	4,229	5,038	-	-	-	-
80 x 20	-	-	2,290	3,030	3,760	4,480	-	-	-	-
80 x 30	-	-	2,530	3,350	4,160	4,960	-	-	-	-
80 x 40	-	-	2,814	3,728	4,628	5,516	7,255	8,943	10,582	-
80 x 50	-	-	3,010	4,000	4,960	5,920	7,790	9,620	11,390	-
80 x 60	-	-	3,293	4,366	5,426	6,473	8,531	10,538	12,496	-
100 x 20	-	-	2,760	3,650	4,540	5,410	-	-	-	-
100 x 30	-	-	3,010	4,000	4,960	5,920	-	-	-	-
100 x 40	-	-	3,293	4,366	5,426	6,473	8,531	10,538	12,496	-
100 x 50	-	-	3,532	4,685	5,824	6,952	9,169	11,336	13,453	-
100 x 60	-	-	3,771	5,004	6,223	7,430	9,807	12,133	14,410	-
100 x 80	-	-	4,250	5,641	7,021	8,387	11,083	13,728	16,324	-
120 x 40	-	-	3,771	5,004	6,223	7,430	9,807	12,133	14,410	-
120 x 60	-	-	4,250	5,641	7,021	8,387	11,083	13,728	16,324	-
120 x 80	-	-	4,728	6,279	7,818	9,344	12,359	15,323	18,237	-
140 x 80	-	-	-	6,917	-	10,301	13,635	16,918	20,151	-
150 x 50	-	-	-	6,279	-	9,344	12,359	15,323	18,237	-
150 x 100	-	-	-	7,875	-	11,736	15,548	19,310	23,022	-
160 x 80	-	-	-	7,555	-	11,258	14,910	18,513	22,065	-
180 x 60	-	-	-	7,555	-	11,258	14,910	-	-	-
200 x 100	-	-	-	9,469	-	14,129	18,738	23,298	27,807	-
200 x 150	-	-	-	11,064	-	16,521	21,928	27,285	-	-
250 x 100	-	-	-	11,064	-	16,521	21,928	27,285	-	-

Artikl; Item: **PRS**
 Debljina materijala; Thickness of the material 1,2-1,5 mm
 Završna obrada: dekapirano ili brušeno; Final surface pickled and brushed

Dužina; Length 6000 mm
 Na zahtjev izrađujemo i profile drugačijih dimenzija.
 On request we produce different profile dimensions

B3P

Debljina Thickness mm	Težina Weight Kg/m
1,2	1,32

PR 4

Debljina Thickness mm	Težina Weight Kg/m
1,5	2,57

PR 3

Debljina Thickness mm	Težina Weight Kg/m
1,5	2,57

PR 5

Debljina Thickness mm	Težina Weight Kg/m
1,5	2,57

B 1

Debljina Thickness mm	Težina Weight Kg/m
1,2	1,41

B 2

Debljina Thickness mm	Težina Weight Kg/m
1,2	1,77

B 3

Debljina Thickness mm	Težina Weight Kg/m
1,2	1,59

B 4

Debljina Thickness mm	Težina Weight Kg/m
1,2	1,47

B 5

Debljina Thickness mm	Težina Weight Kg/m
1,2	1,77

B 1P

Debljina Thickness mm	Težina Weight Kg/m
1,2	1,11

FERM

Debljina Thickness mm	Težina Weight Kg/m
0,5	0,16



Ø promjer; diameter

mm

80

100

120

130

140

150

160

180

200

220

250

300

350

400

450

500

Artikl; Item: **FTL** • Linearni elementi; Linear elements L=250 - 500 - 1000;

Artikl; Item: **FTF** • Fleksibilna cijev dvostruka stijenka, vanjski - naborano, unutrašnjost - polirana
Fitinzi za fleksibilne cijevi (do Ø 300); Flexible pipe double wall, externally - folded, internally - polished
Fittings for flexible pipes (to Ø 300)

Fitinzi za dimnjake; Fittings for chimneys

Artikl; Item: **FCU** • Lukovi na; Arches on 30° - 45° - 90°;

Artikl; Item: **FCS** • Prilagodljivi lukovi na; Adjustable arches at 30° - 90° (do; to Ø 300);

Artikl; Item: **FTM/FTF** • Element na „T“, muško ili žensko odvajanje na; „T“ element, male or female parting at 90°;

Artikl; Item: **FTE** • Element na „T“ 135°; „T“ element 135°;

Artikl; Item: **FEI** • Element za provjeru s čepom; Element for testing with a cork;

Artikl; Item: **FPT** • Ploča za završno zatvaranje; Plate for final closure;

Artikl; Item: **FPS** • Podna ploča s odvodom; Floor plate with drain;

Artikl; Item: **FSF** • Stremeni za fiksiranje; Stirrup for fixing;

Artikl; Item: **FTR** • Čep za skupljanje kondenzata; Cork for collecting condensates;

Artikl; Item: **FCA/FCP/FCE/FCG** • Kapa protiv vjetra i kiše - u dijelovima - okretajuća;

Cap against wind and rain - in parts - rotating;

Artikl; Item: **FGV** • Brtve; Seals;

Ostali dodaci na upit; Other dimensions on request.

Materijali dostupni u A316 – Debljine 0,5 mm; Materials available in A316 – Thickness 0.5 mm
Na upit su dostupni i materijali rađeni po mjeri; Customised materials are available on request

Ø Dimenzija Dimension	Ø mm	DN Nazivni promjer Nominal diameter	SCHED.5S		SCHED.10S		SCHED.10		SCHED.20		SCHED.30		SCHED. STD e 40S		SCHED. 40	
			mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m
1/8"	10,24	6			1,24	0,28							1,73	0,37	1,73	0,37
1/4"	13,72	8			1,65	0,50							2,24	0,64	2,24	0,64
3/8"	17,15	10			1,65	0,64							2,31	0,86	2,31	0,86
1/2"	21,34	15	1,65	0,81	2,11	1,02							2,77	1,29	2,77	1,29
3/4"	26,67	20	1,65	1,03	2,11	1,30							2,87	1,71	2,87	1,71
1"	33,40	25	1,65	1,31	2,77	2,12							3,38	2,54	3,38	2,54
1"1/4	42,16	32	1,65	1,67	2,77	2,73							3,56	3,44	3,56	3,44
1"1/2	48,26	40	1,65	1,93	2,77	3,16							3,68	4,11	3,68	4,11
2"	60,30	50	1,65	2,42	2,77	3,99							3,91	5,52	3,91	5,52
2"1/2	73,03	65	2,11	3,75	3,05	5,34							5,16	8,77	5,16	8,77
3"	88,9	80	2,11	4,59	3,05	6,56							5,49	11,47	5,49	11,47
3"1/2	101,6	90	2,11	5,26	3,05	7,53							5,74	13,78	5,74	13,78
4"	114,3	100	2,11	5,93	3,05	8,50							6,02	16,32	6,02	16,32
5"	141,3	125	2,77	9,61	3,40	11,74							6,55	22,10	6,55	22,10
6"	168,3	150	2,77	11,48	3,40	14,04							7,11	28,70	7,11	28,70
8"	219,1	200	2,77	15,01	3,76	20,27			6,35	33,83	7,04	37,38	8,18	43,20	8,18	43,20
10"	273,0	250	3,40	22,95	4,19	28,50			6,35	42,40	7,80	51,67	9,27	61,22	9,27	61,22
12"	323,9	300	3,96	31,72	4,57	36,54			6,35	50,49	8,38	66,21	9,52	75,02	10,31	80,96
14"	355,6	350	3,96	34,87	4,78	41,99	6,35	55,53	7,92	68,95	9,52	82,58	9,52	82,58	11,13	96,00
16"	406,4	400	4,19	42,20	4,78	48,07	6,35	63,61	7,92	79,03	9,52	94,71	9,52	97,71	12,70	125,20
18"	457,2	450	4,19	47,53	4,78	54,15	6,35	71,69	7,92	89,10	11,13	124,32	9,52	106,83	14,27	158,27
20"	508,0	500	4,78	60,23	5,54	69,70	6,35	79,76	9,52	118,95	12,70	157,51	9,52	118,95	15,09	186,25
22"	558,8	550					6,35	87,79	9,52	130,95	12,70	173,58	9,52	130,95		
24"	609,6	600	5,54	83,84	6,35	95,79	6,35	95,79	9,52	143,05	14,27	212,68	9,52	143,05	17,48	258,56

Artikl; Item: **TSS**

Opseg isporuke; Scope of delivery

sec. ANSI B 36.19 - 36.10 da 1/4" a 12" in accordo a ASTM A312M/09-ASME SA312M/07 EN10216-5 tc1 - NACE MR 01.75 - PED 97/23/EC.

Kvaliteta materijala; Material quality

TP304/304L - 316L - 321/h - 316Ti
UNS S31803 - UNS S32760 - UNS N08904.

Tolerancija; Tolerance ASTM A 312 / A 530

Dimenzija; Dimension	Ø mm	Nazivni promjer; Nominal diameter mm
Øe 10,2 ÷ 48,26	+ 0,4 ÷ - 0,79	-12,5 %
Øe 48,26 ÷ 114,3	+ 0,79 ÷ - 0,79	-12,5 %
Øe 114,3 ÷ 219,1	+ 1,59 ÷ - 0,79	-12,5 %
Øe 273	+ 2,38 ÷ - 0,79	-12,5 %

SCHED. 60		SCHED. XS e 80S		SCHED. 80		SCHED.100		SCHED.120		SCHED.140		SCHED.160		SCHED. XXS	
mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m
		2,41	0,48	2,41	0,48										
		3,02	0,81	3,02	0,81										
		3,20	1,12	3,20	1,12										
		3,73	1,64	3,73	1,64							4,78	1,98	7,47	2,59
		3,91	2,23	3,91	2,23							5,56	2,94	7,82	3,69
		4,55	3,29	4,55	3,29							6,35	4,30	9,09	5,53
		4,85	4,53	4,85	4,53							6,35	5,69	9,70	7,88
		5,08	5,49	5,08	5,49							7,14	7,35	10,15	9,69
		5,54	7,60	5,54	7,60							8,74	11,29	11,07	13,65
		7,01	11,59	7,01	11,59							9,53	15,15	14,02	20,72
		7,62	15,51	7,62	15,51							11,13	21,67	15,24	28,11
		8,08	18,92	8,08	18,92										
		8,56	22,66	8,56	22,66			11,13	28,73			13,49	34,05	17,12	41,66
		9,53	31,44	9,53	31,44			12,70	40,90			15,88	49,87	19,05	58,31
		10,97	43,22	10,97	43,22			14,27	55,04			18,26	68,60	21,95	80,44
10,31	53,90	12,70	65,64	12,70	65,64	15,09	77,09	18,26	91,83	20,62	102,48	23,01	112,98	22,23	109,59
12,7	82,78	12,70	82,78	15,09	97,45	18,26	116,47	21,44	135,05	25,40	157,48	28,58	174,92	25,40	157,48
14,27	110,64	12,70	98,96	17,48	134,12	21,44	162,38	25,40	189,85	28,58	211,34	33,32	242,44	25,40	189,85
15,09	128,66	12,70	109,04	19,05	160,54	23,83	197,97	27,79	228,11	31,75	257,47	35,71	286,04		
16,66	162,59	12,70	125,20	21,44	206,67	26,19	249,34	30,96	291,06	36,53	338,32	40,49	370,99		
19,05	209,00	12,70	141,35	23,83	258,59	29,36	314,54	34,92	369,34	39,67	414,75	45,24	466,67		
20,62	251,65	12,70	157,51	26,19	315,97	32,54	387,41	38,10	448,30	44,45	515,94	50,01	573,52		
22,22	298,47	12,70	173,58	28,60	379,18	34,92	457,91	41,28	534,60	47,62	609,27	53,98	681,65		
24,61	359,96	12,70	189,55	30,96	447,72	38,89	555,12	46,02	648,77	52,30	729,72	59,54	818,71		



Artikli; Item: **CSS45** (Koljeno; Bend SS 45°) - Artikli; Item: **CSS90** (Koljeno; Bend SS 90°) - Artikli; Item: **TESS** (T komad, Tee piece) - Artikli; Item: **RCSS** (Koncentrična redukcija; Concetric reducer SS)

Artikl; Item: **TSS**

Bešavne cijevi-metričke dimenzije
Seamless tubes-metric dimension

Ø Vanjski promjer External diameter mm	Ø Unutarnji promjer Internal diameter mm	Težina Weight Kg/m
6,00	0,50	0,069
6,00	0,75	0,099
6,00	1,00	0,125
6,00	1,50	0,169
6,00	2,00	0,200
8,00	1,00	0,175
8,00	1,50	0,244
8,00	2,00	0,300
10,00	1,00	0,225
10,00	1,50	0,319
10,00	2,00	0,401
12,00	1,00	0,275
12,00	1,50	0,394
12,00	2,00	0,501
14,00	1,00	0,326
14,00	1,50	0,470
14,00	2,00	0,601
15,00	1,00	0,351
15,00	1,50	0,507
15,00	2,00	0,651
16,00	1,00	0,376
16,00	1,50	0,545
16,00	2,00	0,701
18,00	1,00	0,426
18,00	1,50	0,620
18,00	2,00	0,801
19,05	1,65	0,719
19,05	2,11	0,895
20,00	1,00	0,476
20,00	1,50	0,695
20,00	2,00	0,901
22,00	1,00	0,526
22,00	1,50	0,770
22,00	2,00	1,002
25,00	1,50	0,883
25,00	2,00	1,152
25,40	2,11	1,231
25,40	2,77	1,570
28,00	1,50	0,995
28,00	2,00	1,302

Artikl; Item: **TCA**

Bešavne cijevi-kalibrirane
Seamless tubes-calibrated

Ø Vanjski promjer External diameter mm	Ø Unutarnji promjer Internal diameter mm	Ø Vanjski promjer External diameter mm	Ø Unutarnji promjer Internal diameter mm
0,30	0,13	4	2
0,40	0,15	4,20	3,40
0,45	0,18	4,40	3,60
0,50	0,22	4,50	4
0,55	0,25	4,50	3
0,60	0,30	4,60	3,80
0,65	0,32	4,80	4
0,70	0,35	5	4,50
0,70	0,18	5	4
0,80	0,40	5	3
0,90	0,50	5,50	5
1	0,60	5,50	4,50
1,10	0,70	6	5,50
1,20	0,80	6	5
1,20	0,50	6	4,50
1,30	0,85	6	4
1,40	0,95	7	6
1,50	1	7	5
1,60	1,10	7	4
1,70	1,20	8	7
1,80	1,30	8	6
1,90	1,40	8	5
2	1,50	9	8
2	1	9	7
2,10	1,60	9	6
2,20	1,70	10	9
2,30	1,80	10	8
2,40	1,90	10	7
2,50	2	10	6
2,50	1,50	11	10
2,60	2,10	11	9
2,70	2,20	11	8
2,80	2,30	11	7
2,90	2,40	12	11
3	2,50	12	10
3	2	12	9
3	1,50	12	8
3	1	13	12
3,10	2,50	13	11
3,20	2,60	13	10
3,30	2,70	13	9
3,40	2,80	14	13
3,50	3	14	12
3,60	2,95	14	11
3,70	3,10	14	10
3,80	3,20	15	14
3,90	3,30	15	13
4	3,50	15	12
4	3	15	11

Artikli; Item: **TM**

Kvaliteta; Quality AISI: 304 - 304L - 316 - 316L.

Tablica teoretske težine u kg/m prema unutarnjem i vanskom promjeru cijevi; Theoretic weight in kg/m in comparison with internal and external diameter.



Ø Vanjski promjer External diameter mm	Ø Unutarnji promjer Internal diameter mm	Težina Weight Kg/m	Ø Vanjski promjer External diameter mm	Ø Unutarnji promjer Internal diameter mm	Težina Weight Kg/m	Ø Vanjski promjer External diameter mm	Ø Unutarnji promjer Internal diameter mm	Težina Weight Kg/m	
32	20	4,14	85	45	33,2	150	125	47,6	
	16	5,01		71	20,7		106	74,3	
36	25	4,48	90	63	27,2		160	90	106,4
	20	5,85		56	32,3			132	56,3
	16	6,73		50	36,2	122		71,8	
40	28	5,43	95	50	42,1	170		140	64,0
	25	6,40		100	80		24,5	130	80,4
	20	7,77			71		32,8	118	98,6
45	32	6,64	106	63	39,3		180	150	68,5
	28	8,11		56	44,4	140		86,2	
	20	10,4		80	32,3	125		110,4	
50	36	7,97	112	71	47,1	190		160	73,1
	32	9,63		63	52,2		150	92,0	
	25	12,1		56	52,2		132	123,0	
56	40	10,1	118	90	30,2		200	160	97,8
	36	12,0		80	40,6	150		116,8	
	28	15,1		71	48,9	140		134,5	
63	50	9,95	125	63	55,5	212		170	109,1
	40	15,3		90	39,0		130	182,3	
	36	17,2		80	49,4		180	121,0	
	32	18,9		71	57,7				
71	56	12,9	132	63	64,2	224	140	199,1	
	45	19,5		100	38,2		190	133,5	
	40	22,1		90	49,8				
	36	23,9		80	60,2				
75	40	25,7	140	71	68,5	236	150	216,5	
	80	63		16,4	106		42,1	200	152,9
		50		25,4	90		61,2		
		45		28,0	80		71,6		
40	30,6	71	79,9						
80	63	16,4	140	112	47,9	250	200	152,9	
	50	25,4		100	63,5				
	45	28,0		90	75,1				
	40	30,6		80	85,4				

Tolerancija na vanskom promjeru (mm) +2 / 0% s minimalno 0 / +1 - **Tolerancija na unutarnjem promjeru** (mm) +0 / -2% s minimalno 0/-1
External diameter tolerance (mm) +2 / 0% with a minimum 0 / +1 - **Internal diameter tolerance** (mm) +0 / -2% with a minimum 0/-1



Marinox



profili profiles

U ovu grupu spadaju valjani i vučeni profili (okrugli, plosnati, kvadratni, šesterokutni, kutni, "U" i "T" profili i drugi oblici).

This group consist of drawn and rolled profiles (round, flat, square, hexagonal, angle, "U" and "T" profiles etc.).

- 44** okrugli, kvadratni i šesterokutni profili
round, square and hexagonal bars
- 45** plosnati profili
flat bars
- 46** kutni i ostali profili ("U", "T", "I", "H" itd)
angle bars and rest of the profiles ("U", "T", "I", "H" etc.)

Standardne dimenzije su podebljane crnom bojom.

Standard dimensions are in bold.

Okruglo Round

Artikl; Item: **TDL/TDT/TDR/TARR/TNER**

Ø promjer diameter mm	Težina Weight Kg/m	Ø promjer diameter mm	Težina Weight Kg/m	Ø promjer diameter mm	Težina Weight Kg/m
1	0,006	56	19,335	155	148,000
2	0,025	57	20,031	160	157,800
3	0,055	58	20,740	170	178,200
4	0,099	59	21,462	180	199,800
5	0,154	60	22,195	190	222,600
6	0,222	61	22,941	200	246,615
7	0,302	62	23,700	205	259,100
8	0,395	63	24,470	210	271,900
9	0,499	64	25,253	215	285,000
10	0,617	65	26,049	220	298,400
11	0,746	66	26,856	225	312,100
12	0,888	67	27,676	230	326,100
13	1,042	68	28,509	235	340,500
14	1,208	69	29,353	240	355,100
15	1,387	70	30,210	245	370,100
16	1,578	71	31,080	250	385,336
17	1,782	72	31,961	255	400,900
18	1,998	73	32,855	260	416,900
19	2,226	74	33,762	265	433,000
20	2,466	75	34,680	270	449,500
21	2,719	76	35,611	275	466,300
22	2,984	77	36,555	280	483,400
23	3,261	78	37,510	285	500,800
24	3,551	79	38,478	290	518,500
25	3,853	80	39,458	295	536,500
26	4,168	81	40,451	300	554,884
27	4,495	82	41,456	310	592,500
28	4,834	83	42,473	320	631,300
29	5,185	84	43,503	325	651,200
30	5,549	85	44,545	330	671,400
31	5,925	86	45,599	340	712,700
32	6,313	87	46,666	350	755,259
33	6,714	88	47,745	360	799,000
34	7,127	89	48,836	380	890,300
35	7,553	90	49,940	400	985,900
36	7,990	91	51,055	420	1087,600
37	8,440	92	52,184	440	1193,600
38	8,903	93	53,324	460	1304,600
39	9,378	94	54,477	480	1420,500
40	9,865	95	55,643	500	1541,300
41	10,364	96	56,820		
42	10,876	97	58,010		
43	11,400	98	59,212		
44	11,936	99	60,427		
45	12,485	100	61,654		
46	13,046	105	68,000		
47	13,619	110	74,600		
48	14,205	115	81,000		
49	14,803	120	88,800		
50	15,413	125	96,000		
51	16,036	130	104,200		
52	16,671	135	112,000		
53	17,319	140	120,800		
54	17,978	145	130,000		
55	18,650	150	138,721		

Okrugli; Round „REVAL®: idealno rješenje za problem propadanja armiranog betona, osigurava sigurnost konstrukcija i kvalitetu kod projektnih i konstrukcijskih izbora.; ideal solution for the problem of reinforced concrete degradation, ensures the safety of structures and a quality project and construction selection.”

Ključna prednost koja proizlazi iz uporabe Reval®-a kao armature kod armiranog betona je konačno uklanjanje problema hrđe. Uistinu, čak i ako postoje oštećenja betona, Reval® održava otporno područje nepromijenjenim osiguravajući trajnost konstrukcije u vremenu.

The key advantage that results from the use of Reval® as reinforced concrete rebar is the elimination of corrosion problems. Indeed, even if concrete is degraded, Reval® retains its resistance and stability ensuring the durability of the structure over time.



VRSTA ČELIKA; TYPE OF STEEL	AUSTENITNI; AUSTENITIC		DUPLEX
	REVAL 30	REVAL 31	REVAL 32
	304 L	316 L	318

Šesterokutno Hexagonal

Artikl; Item: **ESA**

Ključ Key mm	Težina Weight Kg/m	Ključ Key mm	Težina Weight Kg/m
5	0,169	44	13,160
6	0,245	45	13,770
7	0,333	46	14,390
8	0,435	47	15,020
9	0,551	48	15,660
10	0,680	49	16,320
11	0,823	50	17,000
12	0,979	52	18,400
13	1,149	53	19,010
14	1,332	54	19,800
15	1,520	55	20,600
16	1,730	56	21,300
17	1,965	58	22,900
18	2,180	60	24,500
19	2,454	62	26,100
20	2,700	64	27,620
21	2,998	65	28,650
22	3,290	66	29,380
23	3,570	68	31,190
24	3,916	70	32,250
25	4,210	75	38,240
26	4,595	80	43,500
27	4,956		
28	5,290		
29	5,717		
30	6,118		
31	6,533		
32	6,961		
33	7,403		
34	7,858		
35	8,328		
36	8,810		
37	9,306		
38	9,816		
39	10,340		
40	10,880		
41	11,430		
42	11,990		
43	12,570		

Kvadratno Square

Artikl; Item: **QDT/QDL**

Stranica Side mm	Težina Weight Kg/m	Stranica Side mm	Težina Weight Kg/m
4	0,125	35	9,620
5	0,196	38	11,340
6	0,283	40	12,560
7	0,385	45	15,900
8	0,502	50	19,630
9	0,636	55	23,700
10	0,785	60	28,260
11	0,950	65	33,200
12	1,130	70	38,460
13	1,330	80	50,240
14	1,539	90	63,600
15	1,766	100	78,500
16	2,010	110	95,000
18	2,543	120	113,000
19	2,830	130	132,700
20	3,140	140	153,900
22	3,800	150	176,600
25	4,906		
26	5,310		
28	6,150		
30	7,065		
32	8,040		

Artikl; Item: **TDL** (okruglo, valjano; round, rolled)
Artikl; Item: **TDT** (okruglo, vučeno; round, drawn)
Artikl; Item: **TDR** (okruglo, brušeno; round, ground)
Artikl; Item: **TARR** (okruglo, za opremanje; round, for furnishing)
Artikl; Item: **TNER** (okruglo Reveal; round Reveal)

Artikl; Item: **ESA** (šesterokutno; hexagonal)

Artikl; Item: **QDT** (kvadratno, vučeno; square, drawn)
Artikl; Item: **QDL** (kvadratno, valjano; square, rolled)

Standardne dimenzije su podebljane crnom bojom.

Standard dimensions are in bold.

Plosnati profili Flat bars

Artikl; Item: **PTT/PTC/PTL/PTS**

Dimenzija Dimension mm	Težina Weight Kg/m	Dimenzija Dimension mm	Težina Weight Kg/m	Dimenzija Dimension mm	Težina Weight Kg/m	Dimenzija Dimension mm	Težina Weight Kg/m	Dimenzija Dimension mm	Težina Weight Kg/m														
10 x	3	0,243	35 x	3	0,849	65 x	3	2,42	150 x	3	3,64												
	4	0,323		4	1,133		4	2,10		4	3,23	4	4,85										
	5	0,405		5	1,411		5	2,63		5	4,05	5	6,07										
	6	0,485		6	1,700		6	3,15		6	4,85	6	7,27										
				8	2,266		8	4,20		8	6,47	8	9,70										
12 x	3	0,292		10	2,833		10	5,25		10	8,09	10	12,15										
	4	0,388		12	3,400		12	6,30		12	9,70	12	14,52										
	5	0,485		15	4,240		15	7,88		15	12,15	15	18,23										
	6	0,582		18	5,093		18	9,46		18	14,55	18	24,31										
	8	0,777		20	5,665		20	10,51		20	16,17	20	30,28										
14 x	3	0,340	25	7,076	70 x	3	1,70	110 x	4	5,65													
	4	0,453	3	0,970		4	2,27		4	7,12	5	7,06											
	5	0,567	4	1,298		5	2,83		6	5,34	6	8,48											
	6	0,679	5	1,617		6	3,40		8	7,12	8	11,30											
	8	0,905	8	2,585		8	4,53		10	8,90	10	14,13											
15 x	3	0,362	10	3,234		10	5,67		120 x	12	10,71	180 x	4	6,28									
	4	0,482	12	3,883		12	6,79			12	11,64		5	7,85									
	5	0,623	15	4,851		15	8,49			15	13,39		6	9,42									
	6	0,723	18	5,882		18	10,19			20	17,82		8	12,56									
	8	0,964	20	6,468		20	11,33			25	22,25		10	15,70									
16 x	10	1,205	25	8,086	25	14,11	130 x	30		26,68	200 x		12	18,84									
	3	0,388	30	9,703	30	17,00		30		35,54			15	23,55									
	4	0,517	3	1,09	40	22,66		40		44,50			20	31,40									
	5	0,647	4	1,45	50	28,33		50		53,35			30	47,10									
	6	0,777	5	1,82	60	33,99		60		58,20			40	55,00									
18 x	8	1,030	6	2,18	75 x	4		2,43	140 x	6		6,30	PTS	4	4,53								
	10	1,298	8	2,91		5		3,03		8		8,41		5	5,67	Brushed flat bars	6	5,67					
	3	0,437	10	3,64		6		3,64		10		10,51		8	9,05		PTL	10	11,33				
	4	0,582	12	4,37		8		4,85		12		12,57		10	13,60			PTC	12	13,60			
	5	0,728	15	5,46		10		6,07		15		15,76		15	17,00				Rezani plosnati profili Cutted flat bars	20	22,66		
6	0,873	18	6,55	12		7,28	20	26,27		20	28,33	Valjani plosnati profili Rolled flat bars		25	28,33								
8	1,164	20	7,28	15		9,10	30	31,52		30	33,99			PTS	40					45,32			
10	1,452	25	9,09	18		10,92	40	42,02		40	45,32				Brushed flat bars					50	56,65		
20 x	3	0,485	30	10,92		20	12,15	50		52,53	60									63,04	PTT	60	67,98
	4	0,647	3	1,22		25	15,14	80 x		6	6,30									Artikl; Item: PTT Vučeni plosnati profili Drawn flat bars		3	3,40
	5	0,809	4	1,62	30	18,23	3		2,91	4	4,53												
	6	1,030	5	2,02	40	24,31	4		3,88	5	5,67												
	8	1,298	6	2,43	50	30,28	6		5,82	6	9,05												
10	1,617	8	3,23	50 x	8	4,85	8		7,77	8	11,33												
12	1,936	10	4,05		12	6,07	10		9,70	10	13,60												
15	2,431	12	4,85		15	9,10	12		11,64	12	15,76												
22 x	3	0,534	15		6,07	18	10,92		15	14,52	15	19,36											
	4	0,712	18		7,27	20	12,15		20	19,36	20	26,27											
	5	0,890	20		8,09	25	15,14		25	24,31	25	31,52											
	6	1,071	25		10,10	30	18,23	30	29,15	30	38,83												
	8	1,421	30		12,15	40	24,31	40	38,83	40	48,51												
25 x	10	1,782	35		14,15	50	30,28	90 x	50	48,51	Artikl; Item: PTL Valjani plosnati profili Rolled flat bars	60	52,53										
	12	2,132	40		16,17	55 x	3		1,94	60		58,20	PTS	60	63,04								
	15	2,668	4	1,78	4		2,59		6	6,30		Brushed flat bars		6	6,30								
	30 x	3	0,607	5	2,22		6		3,23	8				8,41	Artikl; Item: PTC Rezani plosnati profili Cutted flat bars	8	8,41						
		4	0,809	8	2,67		8		3,88	10				10,51		10	10,51						
5		1,010	10	3,55	10		5,17		12	12,57				12		12,57							
6		1,215	12	4,45	12		6,47		15	15,76				15		15,76							
8		1,617	15	5,34	15		7,77		20	21,01				20		21,01							
30 x	10	2,021	18	8,00	20		10,92		100 x	25				26,27		Artikl; Item: PTT Vučeni plosnati profili Drawn flat bars	25	26,27					
	12	2,431	20	8,90	25		14,15			30				31,52			30	31,52					
	15	3,028	25	11,12	30		18,23	40		42,02	40			42,02									
	30 x	3	0,728	30	13,39	40	24,31	110 x		50	52,53		PTS	50			52,53						
		4	0,970	3	1,45	50	30,28			60	58,20	Brushed flat bars		60			63,04						
5		1,215	4	1,94	60 x	6	3,23			Artikl; Item: PTL Valjani plosnati profili Rolled flat bars	6			6,30	PTS		6	6,30					
6		1,452	5	2,43		8	4,85				8			8,41			8	8,41					
8		1,936	6	2,91		10	6,47				10			10,51			10	10,51					
10	2,431	8	3,88	12		7,77	12				12,57			12			12,57						
12	2,915	10	4,85	15		9,70	15				15,76			15			15,76						
15	3,636	12	5,82	18		11,64	18		16,17		18			16,17									
18	4,366	15	7,28	20		12,98	20		19,36		20			19,36									
20	4,851	18	8,73	25		16,17	25		24,31		25			24,31									
		20	9,70	30		22,66	30	29,15	30		29,15												
		25	12,15	40		32,34	40	38,83	40		38,83												
		30	14,52	50	44,50	50	48,51	50	48,51														
		40	19,36	60	58,20	60	63,04	60	63,04														
		50	24,31																				

PLOSNI PROFILI OD NEHRĐAJUĆEG ČELIKA; STAINLESS STEEL FLAT BARS
 PROFILI

Artikl: **AGL**

Kutni valjani profil jednakih stranica

Kvaliteta AISI: 304 - 304L - 316 - 316L
Kutni profili, toplo valjani, dekapirani i pasivirani
Prema DIN 1028- 70/76.

Standardne dimenzije su podebljane crnom bojom.

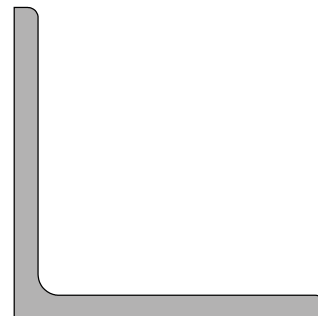
Stranica; Side mm	Težina; Weight Kg/m							
	3	4	5	6	7	8	10	12
15 x 15	0,60	-	-	-	-	-	-	-
20 x 20	0,90	1,16	1,41	-	-	-	-	-
25 x 25	1,14	1,48	1,81	2,13	-	-	-	-
30 x 30	1,39	1,82	2,23	2,62	-	-	-	-
35 x 35	1,63	2,14	2,63	3,10	-	-	-	-
40 x 40	1,89	2,47	3,04	3,59	-	-	-	-
50 x 50	2,38	3,12	3,86	4,57	-	5,95	7,27	-
60 x 60	-	3,71	4,67	5,55	6,40	-	-	-
70 x 70	-	-	-	6,52	7,54	8,55	10,50	-
80 x 80	-	-	6,17	7,50	8,68	9,85	12,13	-
100 x 100	-	-	7,80	9,47	10,97	12,45	15,38	18,23

Item: **AGL**

Rolled angle profile with equal sides

Quality AISI: 304 - 304L - 316 - 316L
Rolled angle profiles, hot rolled, pickled and passivated
According to DIN 1028- 70/76.

Standard dimensions are in bold.



Artikl: **T**

Valjani T - profili

Kvaliteta AISI: 304 - 304L - 316 - 316L
Prema EN 10055
Dekapirani i pasivirani

Standardne dimenzije su podebljane crnom bojom.

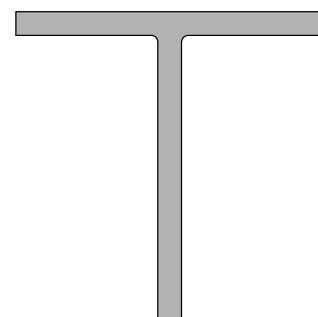
Stranica; Side mm	Težina; Weight Kg/m					
	3	4	5	6	8	10
20 x 20	0,88	1,15	-	-	-	-
25 x 25	1,13	1,47	-	-	-	-
30 x 30	1,37	1,79	-	-	-	-
40 x 40	1,85	2,40	3,00	-	-	-
50 x 50	2,30	3,10	3,80	4,50	-	-
60 x 60	-	3,70	4,60	5,45	-	-
80 x 80	-	-	-	-	9,70	-
100 x 100	-	-	-	-	12,40	15,10

Item: **T**

Rolled T - Profiles

Quality AISI: 304 - 304L - 316 - 316L
According to EN 10055
Pickled and passivated

Standard dimensions are in bold.



Artikl: **U**

Valjani U - profili

Kvaliteta AISI: 304 - 304L - 316 - 316L
Prema DIN 1026 - EN 10279
Dekapirani i pasivirani

Standardne dimenzije su podebljane crnom bojom.

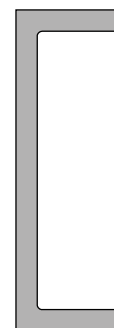
Stranica; Side mm	Težina; Weight Kg/m			
	3	4	5	6
20 x 10	0,86	-	-	-
30 x 15	1,37	1,74	-	-
40 x 20	1,78	2,30	-	-
50 x 25	2,30	-	-	-
60 x 30	-	-	4,37	-
80 x 40	-	-	5,90	7,05
100 x 50	-	6,14	7,65	8,90
120 x 60	-	-	-	10,90

Item: **U**

Rolled U - Profiles

Quality AISI 304 - 304L - 316 - 316L
According to DIN 1026 - EN 10279
Pickled and passivated

Standard dimensions are in bold.



Artikl: **L**

Valjani L profili

Kvaliteta AISI: 304 - 304L - 316 - 316L

Prema EN 10056

Dekapirani

Standardne dimenzije su podebljane crnom bojom.

Stranica; Side mm	Težina; Weight Kg/m			
	3	4	5	6
20 x 10	0,65	-	-	-
30 x 20	1,13	1,47	-	-
40 x 20	1,37	1,79	-	-
40 x 30	1,62	2,10	2,60	-
50 x 30	1,85	2,43	3,00	-
60 x 30	-	-	3,40	4,03
60 x 40	-	-	3,80	4,51
80 x 40	-	-	-	5,47
100 x 50	-	-	-	6,91

Item: **L**

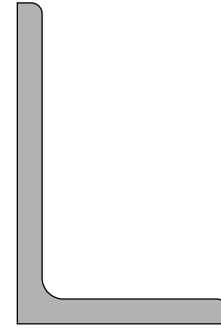
Rolled L - Profiles

Quality AISI: 304 - 304L - 316 - 316L

According to EN 10056

Pickled

Standard dimensions are in bold.



Posebni profili

Prema DIN 1025

* Profili su zavareni laserom.

r_1 = zavareno laserom r_2 = oštar kut.

Special Profiles

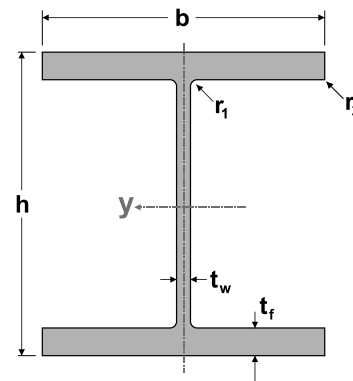
According to DIN 1025

* Profiles are laser welded.

r_1 = laser welded r_2 = acute angle.

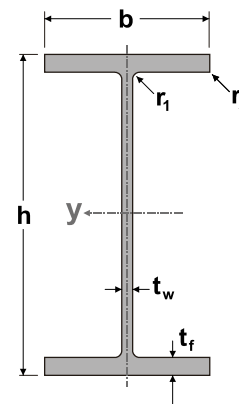
Artikl; Item: **HEB**

Oznaka Label	Dimenzije; Dimensions mm						Težina Weight Kg/m G
	h	b	t_w	t_f	r_1	r_2	
HEB 100*	100	100	6,0	10,0	2,0	1,0	20,4
HEB 120*	120	120	6,5	11,0	2,0	1,0	26,7
HEB 140*	140	140	7,0	12,0	2,0	1,0	33,7
HEB 160*	160	160	8,0	13,0	2,0	1,0	42,6
HEB 180*	180	180	8,5	14,0	2,0	1,0	51,2
HEB 200*	200	200	9,0	15,0	2,0	1,0	61,3



Artikl; Item: **IPE**

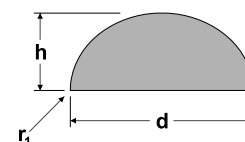
Oznaka Label	Dimenzije; Dimensions mm						Težina Weight Kg/m G
	h	b	t_w	t_f	r_1	r_2	
IPE 80*	80	46	3,8	5,2	2,0	1,0	6,00
IPE 100*	100	55	4,1	5,7	2,0	1,0	8,10
IPE 120*	120	64	4,4	6,3	2,0	1,0	10,4
IPE 140*	140	73	4,7	6,9	2,0	1,0	12,9
IPE 160*	160	82	5,0	7,4	2,0	1,0	15,8
IPE 180*	180	91	5,3	8,0	2,0	1,0	18,8
IPE 200*	200	100	5,6	8,5	2,0	1,0	22,4



Artikl; Item: **MT**

Prema; According to DIN 1018

Oznaka Label	Dimenzije; Dimensions mm			Težina Weight Kg/m G
	d	h	r_1	
18x5,3	18	5,3	< 1,0	0,58





Marinox

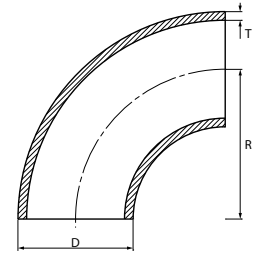


fitinzi fittings

Veliki izbor koljena, holendera, prirubnica, kapa, redukcija, T fittinga, fittinga za prehrambenu industriju, plinskih navojnih fittinga, lijevanih fittinga, ss fittinga, brzih spojki, spojki za visoki tlak, clamp spojnica, garolla fittinga i ventila.

A wide selection of elbow, union flat joints, flanges, caps, reducers, T fittings, fittings for the food industry, gas threading fittings, cast fittings, ss fittings, quick couplings, couplings for high pressure, clamp joints, garolla fittings and valves.

- 50** fitinzi koji se zavaruju
fittings for welding
- 64** plinski navojni fitinzi i ventili
gas threading fittings and valves
- 71** fitinzi za prehrambenu industriju
fittings for food industry
- 78** fitinzi za prehrambenu/kemijsku/farmaceutsku industriju
fittings for the food/chemical/pharmaceutical industries
- 79** fitinzi za industriju vina
fittings for the wine industry



Metričke dimenzije; Metric dimension

Artikl; Item: **CUR**

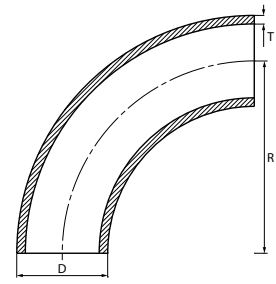
D	R	T		
		1,5	2	3
20	26	•	•	
25,4	37	•	•	
28	37	•	•	
30	38	•	•	
35	50	•	•	
38	52	•	•	
40	60	•	•	
44,5	51	•	•	
50	75	•	•	
50,8	75	•		
52	70	•	•	
53	75	•	•	
54	75	•	•	
63,5	90	•	•	
70	95	•	•	•
80	120	•	•	•
84	120	•	•	
104	150		•	
129	188		•	•
154	225		•	
156	225			•
204	300		•	
206	300			•
254	375		•	
256	375			•
304	450		•	
306	450			•
354	525		x	
356	525			x
456	675			x
506	750			x
606	900			x
813	1219			x
914	1372			x
1016	1524			x

ISO dimenzije; ISO dimensions

Artikl; Item: **CUR**

DN	Ø GAS	D	R	T		
				1,5	2	3
8	1/4"	13,5	20	•		
10	3/8"	17,2	25	•	•	
15	1/2"	21,3	28	•	•	
20	3/4"	26,9	29	•	•	
25	1"	33,7	38	•	•	•
32	1" 1/4	42,4	48	•	•	•
40	1" 1/2	48,3	57	•	•	•
50	2"	60,3	76	•	•	•
65	2" 1/2	76,1	95	•	•	•
80	3"	88,9	114		•	•
	3" 1/2	101,6	133		•	•
100	4"	114,3	152		•	•
125	5"	139,7	190		•	•
150	6"	168,3	229		•	•
200	8"	219,1	305		•	•
250	10"	273,0	381		•	•
300	12"	323,9	457		•	•
350	14"	355,6	533			•
400	16"	406,4	610			•
450	18"	457,2	686			x
500	20"	508,0	762			x
600	24"	609,6	914			x
700	28"	711,2	1067			x

• Standardne dimenzije; x Na zahtjev
 • Standard dimensions; x Upon request



Metričke dimenzije; Metric dimension

Artikl; Item: **CURAR**

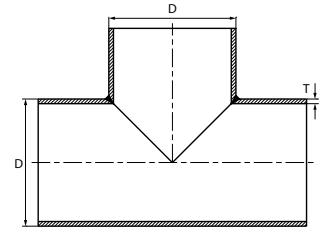
D	R	T	
		1,5	2
25	65	x	
28	80	x	
38	105	x	
54	150		x
70	130		x
84	160		x
104	200		x
129	250		•
154	250		x

ISO dimenzije; ISO dimensions

Artikl; Item: **CURAR**

DN	Ø GAS	D	R	T		
				2	3	4
15	1/2"	21,3	45	•		
20	3/4"	26,9	57	•		
25	1"	33,7	72	•		
32	1"1/4	42,4	93	•		
40	1"1/2	48,3	108	•		
50	2"	60,3	135	•		
65	2"1/2	76,1	175	•		
80	3"	88,9	205	•	x	
100	4"	114,3	270	•	x	
125	5"	139,7	330	x	x	
150	6"	168,3	390		x	x
200	8"	219,1	510	x	x	x

• Standardne dimenzije; x Na zahtjev
 • Standard dimensions; x Upon request



ISO dimenzije; ISO dimensions

Artikl; Item: **TSALD**

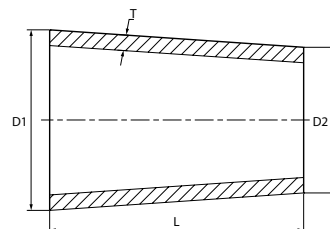
DN	Ø GAS	D	T		
			2	3	4
10	3/8"	17,2	•		
15	1/2"	21,3	•		
20	3/4"	26,9	•		
25	1"	33,7	•	x	
32	1"1/4	42,4	•	x	
40	1"1/2	48,3	•	x	
50	2"	60,3	•	•	
65	2"1/2	76,1	•	•	
80	3"	88,9	•	•	
	3"1/2	101,6	•	x	
100	4"	114,3	•	•	
125	5"	139,7	•	x	
150	6"	168,3	•	•	
200	8"	219,1	•	x	
250	10"	273,0	•	x	x
300	12"	323,9	•	x	x
350	14"	355,6	x	x	x
400	16"	406,4		x	x
450	18"	457,2		x	x
500	20"	508,0		x	x
600	24"	609,6		x	x
700	28"	711,2		x	x

Metričke dimenzije; Metric dimension

Artikl; Item: **TSALD**

D	T		
	2	3	4
54	x		
63,5	x		
73	x		
84	x	x	
104	x	x	
129	•	x	
154	•		
156		x	
204	•		
206		•	
254	•		
256		•	
304	x		
306		x	
354	x		
356		x	
406		x	
408			x
456		x	
458			x
506		x	
508			x
606		x	
608			x
706		x	
708			x

- Standardne dimenzije; x Na zahtjev
- Standard dimensions; x Upon request



Artikl; Item: **RIDCON**

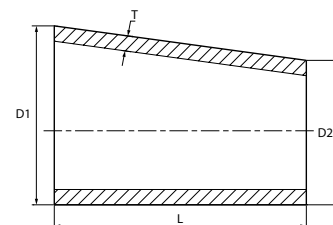
DN	Ø GAS	D1	D2	T	
				2	3
15 x 10	1/2" x 3/8"	21,3	17,2	•	
20 x 10	3/4" x 3/8"	26,9	17,2	•	
20 x 15	3/4" x 1/2"	26,9	21,3	•	
25 x 15	1" x 1/2"	33,7	21,3	•	x
25 x 20	1" x 3/4"	33,7	26,9	•	x
32 x 15	1"1/4 x 1/2"	42,4	21,3	•	x
32 x 20	1"1/4 x 3/4"	42,4	26,9	•	x
32 x 25	1"1/4 x 1"	42,4	33,7	•	x
40 x 20	1"1/2 x 3/4"	48,3	26,9	•	x
40 x 25	1"1/2 x 1"	48,3	33,7	•	x
40 x 32	1"1/2 x 1"1/4"	48,3	42,4	•	x
50 x 25	2" x 1"	60,3	33,7	•	x
50 x 32	2" x 1"1/4"	60,3	42,4	•	x
50 x 40	2" x 1"1/2"	60,3	48,3	•	x
65 x 32	2"1/2 x 1"1/4"	76,1	42,4	•	x
65 x 40	2"1/2 x 1"1/2"	76,1	48,3	•	x
65 x 50	2"1/2 x 2"	76,1	60,3	•	x
80 x 25	3" x 1"	88,9	33,7	•	x
80 x 40	3" x 1"1/2"	88,9	48,3	•	x
80 x 50	3" x 2"	88,9	60,3	•	x
80 x 65	3" x 2"1/2"	88,9	76,1	•	x
90 x 50	3"1/2 x 2"	101,6	60,3	x	x
90 x 65	3"1/2 x 2"1/2"	101,6	76,1	•	x
90 x 80	3"1/2 x 3"	101,6	88,9	•	x
100 x 25	4" x 1"	114,3	33,7	•	x
100 x 32	4" x 1"1/4"	114,3	42,4	x	x
100 x 40	4" x 1"1/2"	114,3	48,3	•	x
100 x 50	4" x 2"	114,3	60,3	•	x
100 x 65	4" x 2"1/2"	114,3	76,1	•	x
100 x 80	4" x 3"	114,3	88,9	•	x
100 x 90	4" x 3"1/2"	114,3	101,6	•	x
125 x 50	5" x 2"	139,7	60,3	•	x
125 x 65	5" x 2"1/2"	139,7	76,1	•	x
125 x 80	5" x 3"	139,7	88,9	•	x

DN	Ø GAS	D1	D2	T	
				2	3
125 x 90	5" x 3"1/2"	139,7	101,6	•	x
125 x 100	5" x 4"	139,7	114,3	•	x
150 x 80	6" x 3"	168,3	88,9	•	x
150 x 90	6" x 3"1/2"	168,3	101,6	x	x
150 x 100	6" x 4"	168,3	114,3	•	x
150 x 125	6" x 5"	168,3	139,7	•	x
200 x 100	8" x 4"	219,1	114,3	•	x
200 x 125	8" x 5"	219,1	139,7	•	x
200 x 150	8" x 6"	219,1	168,3	•	x
250 x 125	10" x 5"	273,0	139,7	•	x
250 x 150	10" x 6"	273,0	168,3	x	x
250 x 200	10" x 8"	273,0	219,1	•	x
300 x 150	12" x 6"	323,9	168,3	•	x
300 x 200	12" x 8"	323,9	219,1	•	x
300 x 250	12" x 10"	323,9	273,0	•	x
350 x 200	14" x 8"	355,6	219,1	x	x
350 x 250	14" x 10"	355,6	273,0	x	x
350 x 300	14" x 12"	355,6	323,9	x	x
400 x 250	16" x 10"	406,4	273,0	x	x
400 x 300	16" x 12"	406,4	323,9	x	x
400 x 350	16" x 14"	406,4	355,6	x	x
450 x 300	18" x 12"	457,0	323,9		x
450 x 350	18" x 14"	457,0	355,6		x
450 x 400	18" x 16"	457,0	406,4		x
500 x 350	20" x 14"	508,0	355,6		x
500 x 400	20" x 16"	508,0	406,4		x
500 x 450	20" x 18"	508,0	457,0		x

• Standardne dimenzije; x Na zahtjev

• Standard dimensions; x Upon request

Na zahtjev radimo i koncentrične redukcije s različitim dimenzijama
Upon request we can produce different kind of conc. reducers.



Artikl; Item: **RIDECC**

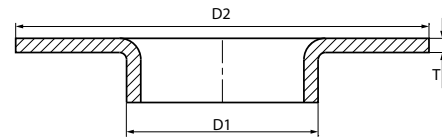
DN	Ø GAS	D1	D2	T	
				2	3
15 x 10	1/2" x 3/8"	21,3	17,2	x	
20 x 10	3/4" x 3/8"	26,9	17,2	x	
20 x 15	3/4" x 1/2"	26,9	21,3	x	
25 x 15	1" x 1/2"	33,7	21,3	x	x
25 x 20	1" x 3/4"	33,7	26,9	x	x
32 x 15	1"1/4 x 1/2"	42,4	21,3	x	x
32 x 20	1"1/4 x 3/4"	42,4	26,9	x	x
32 x 25	1"1/4 x 1"	42,4	33,7	x	x
40 x 20	1"1/2 x 3/4"	48,3	26,9	x	x
40 x 25	1"1/2 x 1"	48,3	33,7	x	x
40 x 32	1"1/2 x 1"1/4"	48,3	42,4	x	x
50 x 25	2" x 1"	60,3	33,7	x	x
50 x 32	2" x 1"1/4"	60,3	42,4	x	x
50 x 40	2" x 1"1/2"	60,3	48,3	x	x
65 x 32	2"1/2 x 1"1/4"	76,1	42,4	x	x
65 x 40	2"1/2 x 1"1/2"	76,1	48,3	x	x
65 x 50	2"1/2 x 2"	76,1	60,3	x	x
80 x 25	3" x 1"	88,9	33,7	x	x
80 x 40	3" x 1"1/2"	88,9	48,3	x	x
80 x 50	3" x 2"	88,9	60,3	x	x
80 x 65	3" x 2"1/2"	88,9	76,1	x	x
90 x 50	3"1/2 x 2"	101,6	60,3	x	x
90 x 65	3"1/2 x 2"1/2"	101,6	76,1	x	x
90 x 80	3"1/2 x 3"	101,6	88,9	x	x
100 x 25	4" x 1"	114,3	33,7	x	x
100 x 32	4" x 1"1/4"	114,3	42,4	x	x
100 x 40	4" x 1"1/2"	114,3	48,3	x	x
100 x 50	4" x 2"	114,3	60,3	x	x
100 x 65	4" x 2"1/2"	114,3	76,1	x	x
100 x 80	4" x 3"	114,3	88,9	x	x
100 x 90	4" x 3"1/2"	114,3	101,6	x	x
125 x 50	5" x 2"	139,7	60,3	x	x
125 x 65	5" x 2"1/2"	139,7	76,1	x	x
125 x 80	5" x 3"	139,7	88,9	x	x
125 x 90	5" x 3"1/2"	139,7	101,6	x	x
125 x 100	5" x 4"	139,7	114,3	x	x

DN	Ø GAS	D1	D2	T	
				2	3
150 x 80	6" x 3"	168,3	88,9	x	x
150 x 90	6" x 3"1/2"	168,3	101,6	x	x
150 x 100	6" x 4"	168,3	114,3	x	x
150 x 125	6" x 5"	168,3	139,7	x	x
200 x 100	8" x 4"	219,1	114,3	x	x
200 x 125	8" x 5"	219,1	139,7	x	x
200 x 150	8" x 6"	219,1	168,3	x	x
250 x 125	10" x 5"	273,0	139,7	x	x
250 x 150	10" x 6"	273,0	168,3	x	x
250 x 200	10" x 8"	273,0	219,1	x	x
300 x 150	12" x 6"	323,9	168,3	x	x
300 x 200	12" x 8"	323,9	219,1	x	x
300 x 250	12" x 10"	323,9	273,0	x	x
350 x 200	14" x 8"	355,6	219,1	x	x
350 x 250	14" x 10"	355,6	273,0	x	x
350 x 300	14" x 12"	355,6	323,9	x	x
400 x 250	16" x 10"	406,4	273,0	x	x
400 x 300	16" x 12"	406,4	323,9	x	x
400 x 350	16" x 14"	406,4	355,6	x	x
450 x 300	18" x 12"	457,0	323,9		x
450 x 350	18" x 14"	457,0	355,6		x
450 x 400	18" x 16"	457,0	406,4		x
500 x 350	20" x 14"	508,0	355,6		x
500 x 400	20" x 16"	508,0	406,4		x
500 x 450	20" x 18"	508,0	457,0		x

• Standardne dimenzije; x Na zahtjev

• Standard dimensions; x Upon request

Na zahtjev radimo i koncentrične redukcije s različitim dimenzijama
Upon request we can produce different kind of conc. reducers.



ISO dimenzije; ISO dimensions

Artikl; Item: **CAR**

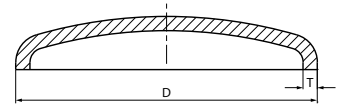
DN	Ø GAS	D1	D2	T		
				2	3	4
10	3/8"	17,2	42	•		
15	1/2"	21,3	46	•	x	
20	3/4"	26,9	58	•	x	x
25	1"	33,7	68	•	•	x
32	1 1/4"	42,4	78	•	•	x
40	1 1/2"	48,3	88	•	•	x
50	2"	60,3	102	•	•	x
65	2 1/2"	76,1	122	•	•	x
80	3"	88,9	133	•	•	x
	3 1/2"	101,6	150	•	•	
100	4"	114,3	158	•	•	x
125	5"	139,7	184	•	•	x
150	6"	168,3	212	•	•	x
200	8"	219,1	268	•	•	x
250	10"	273,0	320	•	•	x
300	12"	323,9	370	•	•	x
350	14"	355,6	430	•	•	x
400	16"	406,4	482	x	•	x
450	18"	457,2	532	x	x	x
500	20"	508,0	585	x	x	x
600	24"	609,6	685	x	x	x
700	28"	711,2	800	x	x	x

Metričke dimenzije; Metric dimension

Artikl; Item: **CAR**

D1	D2	T	
		2	3
54	102	•	
63,5	102	•	
70	122	•	
80	122	•	
84	138	•	x
104	158	•	x
129	188	•	x
154	212	•	
156	212		•
204	268	•	
206	268		•
254	320	•	
256	320		•
304	370	•	
306	370		•
354	430	x	
356	430		x
406	482		•
456	532		x
506	585		x
606	685		x

• Standardne dimenzije; x Na zahtjev
 • Standard dimensions; x Upon request
 Na zahtjev radimo i koncentrične redukcije s različitim dimenzijama
 Upon request we can produce different kind of conc. reducers.



ISO dimenzije; ISO dimensions

Artikl; Item: **FON**

DN	Ø GAS	D	T		
			2	3	4
15	1/2"	21,3	•	x	
20	3/4"	26,9	•	x	
25	1"	33,7	•	x	
32	1"1/4	42,4	•	x	
40	1"1/2	48,3	•	x	x
50	2"	60,3	•	x	x
65	2"1/2	76,1	•	•	x
80	3"	88,9	•	•	x
	3"1/2	101,6	•	x	x
100	4"	114,3	•	x	x
125	5"	139,7	•	x	x
150	6"	168,3	•	•	x
200	8"	219,1	•	x	x
250	10"	273,0	•	x	x
300	12"	323,9	•	x	x
350	14"	355,6		x	x
400	16"	406,4		x	x
450	18"	457,2		x	x
500	20"	508,0		x	x
600	24"	609,6		x	x
700	28"	711,2		x	x

Metričke dimenzije; Metric dimension

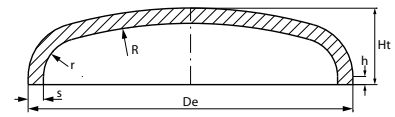
Artikl; Item: **FON**

D	T	
	2	3
40	•	
50	•	
52	•	
54	x	
70	•	
84	•	
104	x	
129	•	
129	x	•
154	•	
156		x
204	•	
206		x
254	•	
256		x
304	•	
306		•
354	•	
356		•
406		•
456		•
506		•
606		•
706		x

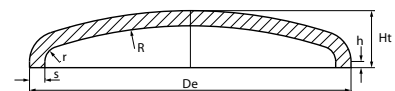
- Standardne dimenzije; x Na zahtjev
- Standard dimensions; x Upon request

Plitke i duboke podnice; Torispherical headsArtikl; Item: **FON**

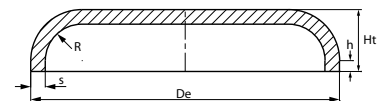
\varnothing_e	0 - 4500 mm
S	2 - 20 mm
R	= \varnothing_i
r	= $\varnothing_i / 10$
h	prema zahtjevu; upon request
Ht	prema zahtjevu; upon request

**Normalne plitke podnice; Normal and shallow dished heads**Artikl; Item: **FONL**

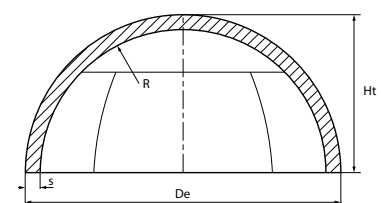
\varnothing_e	300 - 4000 mm
S	1,5 - 20 mm
R	1,5 - 3 · \varnothing_e
r	10 - 150 mm
h	prema zahtjevu; upon request
Ht	prema zahtjevu; upon request

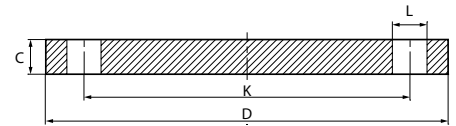
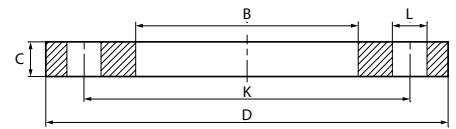
**Ravne podnice; Flat flanged heads**Artikl; Item: **FONP**

\varnothing_e	200 - 4000 mm
S	1,5 - 20 mm
r	10 - 200 mm
h	prema zahtjevu; upon request
Ht	= r + h + S

**Polukugle; Hemispherical heads**Artikl; Item: **FONS**

\varnothing_e	prema zahtjevu; upon request
S	2 - 20 mm
R	= $\varnothing_i / 2$
Ht	= R + S



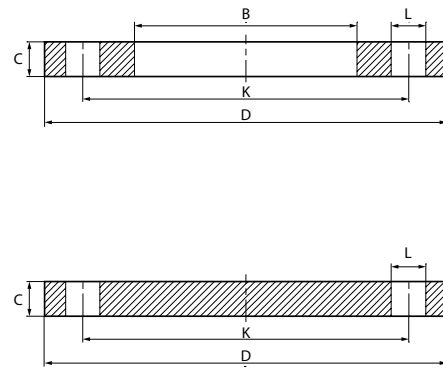


PN 6

Artikl; Item: **FLA (EN 1092-1/01)** - Artikl; Item: **FLAC (EN 1092-1/05)**

DN	D promjer u inčima Inch diameter	Ø ISO	D	K	C	L	Broj rupa Number of holes n°	Vijak Bolt	B ISO
10	3/8"	17,2	75	50	12	11	4	M10	18
15	1/2"	21,3	80	55	12	11	4	M10	22
20	3/4"	26,9	90	65	14	11	4	M10	27,5
25	1"	33,7	100	75	14	11	4	M10	34,5
32	1 1/4"	42,4	120	90	16	14	4	M12	43,5
40	1 1/2"	48,3	130	100	16	14	4	M12	49,5
50	2"	60,3	140	110	16	14	4	M12	61,5
65	2 1/2"	76,1	160	130	16	14	4	M12	77,5
80	3"	88,9	190	150	18	18	4	M16	90,5
100	4"	114,3	210	170	18	18	4	M16	116
125	5"	139,7	240	200	20	18	8	M16	141,5
150	6"	168,3	265	225	20	18	8	M16	170,5
200	8"	219,1	320	280	22	18	8	M16	221,5
250	10"	273,0	375	335	24	18	12	M16	276,5
300	12"	323,9	440	395	24	22	12	M20	327,5
350	14"	355,6	490	445	26	22	12	M20	359,5
400	16"	406,4	540	495	28	22	16	M20	411
450	18"	457,0	595	550	30	22	16	M20	462
500	20"	508,0	645	600	30	22	20	M20	513,5
600	24"	610,0	755	705	32	25	20	M24	616,5

Na zahtjev radimo i specijalne prirubnice s različitim dimenzijama.
Upon request we produce special flanges with different kind of dimensions.



PN 10

Artikl; Item: **FLA (EN 1092-1/01)** - Artikl; Item: **FLAC (EN 1092-1/05)**

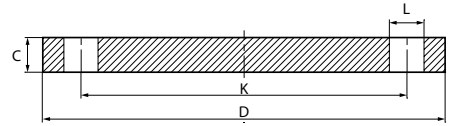
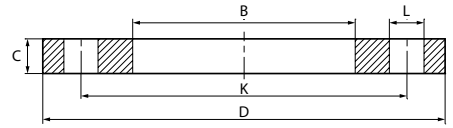
DN	D promjer u inčima Inch diameter	Ø ISO	D	K	C	L	Broj rupa Number of holes n°	Vijak Bolt	B ISO
10-40			Prema standardu EN 1092-1/01 tip PN 40; According to standard EN 1092-1/01 type PN 40						
50-150			Prema standardu EN 1092-1/01 tip PN 16; According to standard EN 1092-1/01 type PN 16						
200	8"	219,1	340	295	24	22	8	M20	221,5
250	10"	273,0	395	350	26	22	12	M20	276,5
300	12"	323,9	445	400	26	22	12	M20	327,5
350	14"	355,6	505	460	28	22	16	M20	359,5
400	16"	406,4	565	515	32	26	16	M24	411
450	18"	457,0	615	565	36	26	20	M24	462
500	20"	508,0	670	620	38	26	20	M24	513,5
600	24"	610,0	780	725	42	30	20	M27	616,5

PN 16

Artikl; Item: **FLA (EN 1092-1/01)** - Artikl; Item: **FLAC (EN 1092-1/05)**

DN	D promjer u inčima Inch diameter	Ø ISO	D	K	C	L	Broj rupa Number of holes n°	Vijak Bolt	B ISO
10-40			Prema standardu EN 1092-1/01 tip PN 40; According to standard EN 1092-1/01 type PN 40						
50	2"	60,3	165	125	19	18	4	M16	61,5
65	2 1/2"	76,1	185	145	20	18	8	M16	77,5
80	3"	88,9	200	160	20	18	8	M16	90,5
100	4"	114,3	220	180	22	18	8	M16	116
125	5"	139,7	250	210	22	18	8	M16	141,5
150	6"	168,3	285	240	24	22	8	M20	170,5
200	8"	219,1	340	295	26	22	12	M20	221,5
250	10"	273,0	405	355	29	26	12	M24	276,5
300	12"	323,9	460	410	32	26	12	M24	327,5
350	14"	355,6	520	470	35	26	16	M24	359,5
400	16"	406,4	580	525	38	30	16	M27	411
450	18"	457,0	640	585	42	30	20	M27	462
500	20"	508,0	715	650	46	33	20	M30	513,5
600	24"	610,0	840	770	52	36	20	M33	616,5

Na zahtjev radimo i specijalne prirubnice s različitim dimenzijama. Upon request we produce special flanges with different kind of dimensions.

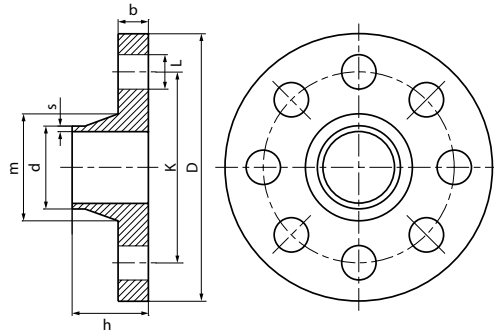


PN 40

Artikl; Item: **FLA (EN 1092-1/01)** - Artikl; Item: **FLAC (EN 1092-1/05)**

DN	D promjer u inčima Inch diameter	Ø ISO	D	K	C	L	Broj rupa Number of holes n°	Vijak Bolt	B ISO
10	3/8"	17,2	90	60	14	14	4	M12	18
15	1/2"	21,3	95	65	14	14	4	M12	22
20	3/4"	26,9	105	75	16	14	4	M12	27,5
25	1"	33,7	115	85	16	14	4	M12	34,5
32	1 1/4"	42,4	140	100	18	18	4	M16	43,5
40	1 1/2"	48,3	150	110	18	18	4	M16	49,5
50	2"	60,3	165	125	20	18	4	M16	61,5
65	2 1/2"	76,1	185	145	22	18	8	M16	77,5
80	3"	88,9	200	160	24	18	8	M16	90,5
100	4"	114,3	235	190	26	22	8	M20	116
125	5"	139,7	270	220	28	26	8	M24	141,5
150	6"	168,3	300	250	30	26	8	M24	170,5
200	8"	219,1	375	320	36	30	12	M27	221,5
250	10"	273,0	450	385	42	33	12	M30	276,5
300	12"	323,9	515	450	48	33	16	M30	327,5
350	14"	355,6	580	510	54	36	16	M33	359,5
400	16"	406,4	660	585	60	39	16	M36	411
450	18"	457,0	685	610	66	39	20	M36	462
500	20"	508,0	755	670	72	42	20	M39	513,5
600	24"	610,0	890	795	84	48	20	M45	616,5

Na zahtjev radimo i specijalne prirubnice s različitim dimenzijama.
Upon request we produce special flanges with different kind of dimensions.

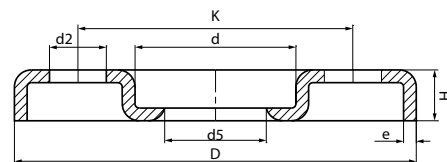


PN 16

Artikl; Item: **FLACO (EN 1092-1/11)**

DN	D promjer u inčima Inch diameter	D	h	b	Otvor ; Opening			Grlo; Nec			Težina Weight circa Kg
					K	L	Broj rupa Number of holes n°	m	d	s	
15	1/2"	95	35	14	65	14	4	32	22,5	2,5	0,800
20	3/4"	105	38	16	75	14	4	40	28	2,5	1,100
25	1"	115	38	16	85	14	4	45	34,5	2,8	1,300
32	1¼"	140	40	16	100	18	4	56	43,5	3	1,900
40	1½"	150	42	16	110	18	4	64	42,5	3	2,200
50	2"	165	45	18	125	18	4	75	61,5	3,5	2,900
65	2½"	185	45	18	145	18	4	90	77	3,5	3,400
80	3"	200	50	20	160	18	8	105	90	3,7	4,400
100	4"	220	52	20	180	18	8	131	115,5	3,7	5,100
125	5"	250	55	22	210	18	8	156	141	4	6,800
150	6"	285	55	22	240	22	8	184	170,5	5	8,400
175	7"	315	60	24	270	22	8	210	195,5	5	10,600
200	8"	340	62	24	295	22	12	235	221	5	11,600
250	10"	405	70	26	355	25	12	292	275	5,5	17, -
300	12"	460	78	28	410	25	12	344	326	6	22, -
350	14"	520	82	30	470	25	16	390	357,5	6,4	29, -
400	16"	580	85	32	525	30	16	445	438,5	7	37, -
450	18"	640	85	32	585	30	20	485	459	7,3	45, -
500	20"	715	90	34	650	33	20	548	510	7,3	60, -
600	24"	840	95	36	770	36	20	652	611,5	7,3	80, -
700	28"	910	100	36	840	36	24	755	715	9	88, -
800	32"	1025	105	38	950	39	24	855	817	9	110, -
900	36"	1125	110	40	1050	39	28	955	918	10	130, -
1000	40"	1255	120	42	1170	42	28	1058	1020	12	165, -

Na zahtjev radimo i specijalne prirubnice s različitim dimenzijama.
Upon request we produce special flanges with different kind of dimensions.

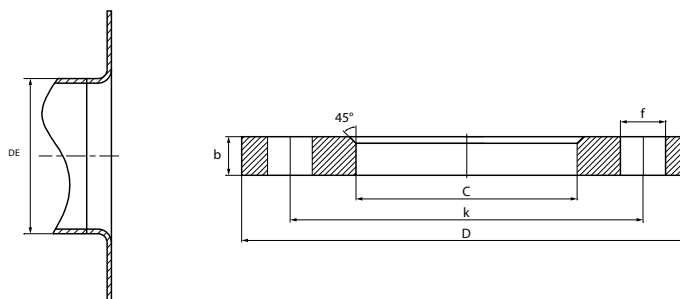


PN 10

Artikl; Item: **FLAST (DIN 2642)**

DN	d1 ISO	d1 Metričke Metric	D	d	d5	K	e	H	Otvor ; Opening			Težina Weight	1.4307 304L
									n° Broj rupa Number of holes	Tipo	d2		
15	21,3		95	38	24	65	3	12,0	4	M12	13,5	0,180	•
20	26,9		105	48	30	75	3	14,0	4	M12	13,5	0,240	•
25	33,7	28	115	53	37	85	3	16,0	4	M12	13,5	0,282	•
32	42,4	35	140	68	46	100	3	16,0	4	M16	17,5	0,420	•
40	48,3	43	150	77	54	110	4	17,5	4	M16	18,0	0,600	•
50	60,3	54	165	91	65	125	4	19,5	4	M16	18,0	0,740	•
65	76,1	70	185	108	81	145	4	21,5	4	M16	18,0	0,900	•
80	88,9	84	200	123	94	160	4	21,5	8	M16	18,0	1,000	•
100	114,3	104	220	141	119	180	4	22,0	8	M16	18,0	1,085	•
125	139,7	129	250	168	145	210	5	22,0	8	M16	18,0	1,700	•
150	168,3	154	285	192	173	240	5	25,0	8	M20	22,0	2,100	•
200	219,1	204	340	245	225	295	6	28,0	8	M20	22,0	3,360	•
250	273,0	254	395	295	279	350	6	31,0	12	M20	22,0	4,200	•
300	323,9	306	445	345	329	400	6	34,0	12	M20	22,0	5,150	•
350	355,6	356	505	393	362	460	8	36,0	16	M20	22,0	7,500	•
400	406,4	406	565	443	413	515	8	38,0	16	M24	26,0	9,200	•

- Standardne dimenzije
- Standard dimension



PN 10

Artikl; Item: **FLAI (ISO)** - Artikl; Item: **FLA (METRIČKE; METRIC)** - Artikl; Item: **FLACIE (SLIJEPE; BLIND)**

DN	D	ISO		Metričke; Metric		Debljina Thickness b	Broj rupa; Number of holes		
		C	Promjer cijevi Tube diameter	C	Promjer cijevi Tube diameter		Ø k	Ø f	n°
10	90	19	3/8"-17,2	19	13-14	12	60	14	4
15	95	24	1/2"-21,3	24	18-20	12	65	14	4
20	105	30	3/4"-26,9	30	23-25	12	75	14	4
25	115	36	1"-33,7	34	28-30	12	85	14	4
32	140	46	1 1/4"-42,2	40	35-38	16	100	18	4
40	150	54	1 1/2"-48,3	48	43-44,5	16	110	18	4
50	165	65	2"-60,3	58	53-56	16	125	18	4
65	185	81	2 1/2"-76,1	73	69	16	145	18	4
80	200	94	3"- 88,9	90	84-86	18	160	18	8
100	220	119	4"-114,3	110	104-106	18	180	18	8
125	250	144	5"-139,7	135	129-131	18	210	18	8
150	285	173	6"-168,3	160	154-156	18	240	22	8
200	340	225	8"-219,1	212	204- 206	20	295	22	8
250	395	279	10"-273,0	262	254-256	22	350	22	12
300	445	329	12"- 323,9	312	304-306	22	400	22	12
350	505	362	14"-355,6	362	356	22	460	22	16
400	565	413	16"-406,4	413	406	25	515	25	16
450	615	466	18"-456,0	466	456	25	565	25	20
500	670	517	20"-508,0	517	506	28	620	25	20
600	780	620	24"- 610,0	620	606	30	725	30	20
700	895	721	28"-711,0	721	706	32	840	30	24
800	1015	824	32"-813,0	824	806	36	950	33	24
900	1115	920	36"-914,4	920	906	36	1050	33	28
1000	1230	1020	40"-1016	1020	1006	36	1160	33	28

Artikl; Item: **MAN**
Cijevna spojnica s unutarnjim navojem
Female coupling



Ø BSP

1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **TRO**
Cijevna spojnica s vanjskim navojem
Male threaded nipple



Ø BSP

1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **BOCF**
Holender s konusnim brtvljenjem U/U-navoj
Pipe union conical seat F/F ends



Ø BSP

1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **BOCM**
Holender s konusnim brtvljenjem U/V-navoj
Pipe union conical seat F/M ends



Ø BSP

1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **TAPF**
Čep U-navoj
Female plug



Ø BSP

1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **TAP**
Čep V-navoj
Male plug



Ø BSP

1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **TFIL**
T komad U-navoj
Tee F/F/F ends



Ø BSP

1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **GOM**
Kojeno 90, U-navoj
Elbow 90, F/F ends



Ø BSP

1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **NIP**
Cijevna spojnica dupla V-navoj
 Hexagonal double nipple



Ø BSP
1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **NIR**
Redukcija V/V navoj
 Hexagonal reduced nipple M/M



Ø BSP
1/4"-1/8"
3/8"-1/4"
1/2"-3/8"
3/4"-1/2"
1"-3/4"
1 1/4"-1"
1 1/2"-1 1/4"
2"-1 1/2"
2 1/2"-2"
3"-2 1/2"
4"-3"

Artikl; Item: **RID**
Redukcija U/V navoj
 Hexagonal bushing F/M



Ø BSP
1/4"-1/8"
3/8"-1/4"
1/2"-3/8"
3/4"-1/2"
1"-3/4"
1 1/4"-1"
1 1/2"-1 1/4"
2"-1 1/2"
2 1/2"-2"
3"-2 1/2"
4"-3"

Artikl; Item: **CONTR**
Matica
 Nut



Ø BSP
1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **VALVRITM**
Nepovratni ventil U-navoj
 No return valve F/F ends



Ø BSP
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"

Artikl; Item: **PORM**
Nastavak za crijevo V-navoj
 Hose nipple



Ø BSP
1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **VALVREG**
Ventil za regulaciju nivoa
 Level regulating valve



Ø BSP
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"

Artikl; Item: **SFEGAL**
Nivo kugla
 Level ball



DE
70
90
110
120
160
220
240
250
260

Artikl; Item: **PORTARS**
Nivokazni ventil s ispustom
 Lower level indicator valve



Ø BSP

3/8"

1/2"

3/4"

1"

Artikl; Item: **PORTR**
Nivokazni ventil
 Upper level indicator



Ø BSP

3/8"

1/2"

3/4"

1"

Artikl; Item: **RUBM**
Slavina za uzorke
 Sampling valve



Ø BSP

1/4"

3/8"

1/2"

Artikl; Item: **PORTS**
Ventil za regulaciju protoka
 Flow regulating valve



Ø BSP

3/8"

1/2"

3/4"

1"

Artikl; Item: **RUBSPI**
Igličasti ventil
 Needle valve



Ø BSP

1/4"

3/8"

1/2"

3/4"

Artikl; Item: **VALVFL**
Ventil za regulaciju protoka
 Flow regulating valve



Ø BSP

3/8"

1/2"

3/4"

1"

1 1/4"

1 1/2"

2"

2 1/2"

3"

Artikl; Item: **VALVSFM**
Kuglasta slavina U-navoj
 Ball valve F/F ends



Ø BSP

1/2"

3/4"

1"

1 1/4"

1 1/2"

2"

2 1/2"

3"

4"

Artikl; Item: **VALVSIC**
Sigurnosni ventil
 Safety valve



Ø BSP

3/8"

1/2"

3/4"

1"

1 1/4"

1 1/2"

2"

2 1/2"

3"

Artikl; Item: **TFUSI**
Lijevani T komad U-navoj
 Casting Tee F/F/F ends



Ø BSP
1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **GOMF**
Lijevano koljeno 90° U-nav
 Casting elbow 90° F/F ends



Ø BSP
1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **GOMMF**
Lijevano koljeno 90° U/V navoj
 Casting elbow 90° M/F ends



Ø BSP
1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"

Artikl; Item: **GOMF45**
Lijevano koljeno 45° U-navoj
 Casting elbow 45° F/F ends



Ø BSP
1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"

Artikl; Item: **NIRF**
Lijevani reducirani dupli nipl V-navoj
 Casting hexagonal reduced double nipple



Ø BSP	Ø BSP
3/8"-1/4"	2"-1 1/4"
1/2"-1/4"	2"-2 1/2"
1/2"-3/8"	
3/4"-3/8"	
3/4"-1/2"	
1"-1/2"	
1"-3/4"	
1 1/4"-3/4"	
1 1/4"-1"	
1 1/2"-1 1/4"	

Artikl; Item: **NIF**
Lijevana cijevna spojnica dupla V-navoj
 Casting hexagonal double nipple



Ø BSP
1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"

Artikl; Item: **CRO**
Lijevani križni komad U-navoj
 Casting cross F/F/F/F ends



Ø BSP
1/8"
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **FILTROY**
Lijevani Y hvatač nečistoća U-navoj
 Casting Y filter F/F ends



Ø BSP
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"

Artikl; Item: **TMF**
Ljevani čep U-navoj
 Casting female plug



Ø BSP

3/8"
 1/2"
 3/4"
 1"
 1 1/4"
 1 1/2"
 2"
 2 1/2"
 3"

Artikl; Item: **TFF**
Ljevani čep U-navoj
 Casting female tap



Ø BSP

3/8"
 1/2"
 3/4"
 1"
 1 1/4"
 1 1/2"
 2"
 2 1/2"
 3"

Artikl; Item: **BFFF**
**Ljevani holender s konusnim
 brtvljenjem U-navoj**
 Casting pipe union conical seat F/F ends



Ø BSP

1/8"
 1/4"
 3/8"
 1/2"
 3/4"
 1"
 1 1/4"
 1 1/2"
 2"
 2 1/2"
 3"

Artikl; Item: **BFMF**
**Ljevani holender s konusnim
 brtvljenjem U/V-navoj**
 Casting pipe union conical seat F/M ends



Ø BSP

1/8"
 1/4"
 3/8"
 1/2"
 3/4"
 1"
 1 1/4"
 1 1/2"
 2"
 2 1/2"
 3"

Artikl; Item: **VALVSFFF**
**Ljevana kuglasta slavina
 (puni protok) U-nav**
 Casting ball valve
 (full passage) F/F ends



Ø BSP

1/4"
 3/8"
 1/2"
 3/4"
 1"
 1 1/4"
 1 1/2"
 2"
 2 1/2"
 3"

Artikl; Item: **VALVS3F**
Troputa kuglasta slavina U-navoj
 Three way ball valve F/F ends



Ø BSP

3/4"
 1"
 1 1/4"
 1 1/2"
 2"
 2 1/2"
 3"
 4"

Artikl; Item: **VALVSFFL**
Kuglasta slavina s pribubicama
 Ball valve flange ends



DN Ø BSP

20 3/4"
 25 1"
 32 1 1/4"
 40 1 1/2"
 50 2"
 65 2 1/2"
 80 3"
 100 4"

Artikl; Item: **VALVW**
Kuglasta slavina međupribubnička
 Ball valve wafer type



DN Ø BSP

20 3/4"
 25 1"
 32 1 1/4"
 40 1 1/2"
 50 2"
 65 2 1/2"
 80 3"
 100 4"

Artikl; Item: **RACDEF**
Ravna ermeto spojnica U-navoj
 Straight female ermeto connection



Ø Navoj Thread	Ø Cijev Tube
1/8"	6
1/4"	8-10
3/8"	12
1/2"	15-18
3/4"	22
1"	28
1 1/4"	35
1 1/2"	42

Artikl; Item: **RACDEM**
Ravna ermeto spojnica V-navoj
 Straight male ermeto connection



Ø Navoj Thread	Ø Cijev Tube
1/8"	6
1/4"	8-10
3/8"	12
1/2"	15-18
3/4"	22
1"	28
1 1/4"	35
1 1/2"	42

Artikl; Item: **RACGE**
Kutna ermeto spojnica V-navoj
 Male elbow ermeto connection



Ø Navoj Thread	Ø Cijev Tube
1/8"	6
1/4"	8-10
3/8"	12
1/2"	15-18
3/4"	22
1"	28
1 1/4"	35
1 1/2"	42

Artikl; Item: **RACTEC**
T ermeto spojnica V-navoj
 Male Tee ermeto connection



Ø Navoj Thread	Ø Cijev Tube
1/8"	6
1/4"	8-10
3/8"	12
1/2"	15-18
3/4"	22
1"	28
1 1/4"	35
1 1/2"	42

Artikl; Item: **RACDI**
Ravna ermeto spojnica
 Straight ermeto connection



Ø Cijev; Tube
6
8
10
12
15
18
22
28
35
42

Artikl; Item: **RACGI**
Kutna ermeto spojnica
 Elbow ermeto connection



Ø Cijev; Tube
6
8
10
12
15
18
22
28
35
42

Artikl; Item: **RACFI**
T ermeto spojnica
 Tee ermeto connection



Ø Cijev; Tube
6
8
10
12
15
18
22
28
35
42

Artikl; Item: **RACCI**
Križna ermeto spojnica
 Cross ermeto connection



Ø Cijev; Tube
6
8
10
12
15
18
22
28
35
42

Ostali fitinzi na upit; Other fittings on request.

Brze spojke se univerzalno primjenjuju u industriji kako zbog iznimne lakoće spajanja tako zbog svestranosti uporabe u najrazličitijim područjima. Jednostavnost uporabe, ekstremna sigurnost i brzina spajanja uz veliki izbor raspoloživih materijala čine brze spojke savršenim rješenjem za kretanje i prijenos tekućine u kemijskoj, farmaceutskoj i prehrambenoj industriji.

Quick couplings are universally applied in industry both for their exceptionally easy coupling and for their universality of use in the most wide-ranging areas. The simplicity of use, extreme safety and the speed of coupling, along with a wide selection of available materials, make quick couplings a perfect solution for moving and transferring liquid in the chemical, pharmaceutical and food industries.

Artikl; Item: **RACFP**
Čep, muški
Tap, male



DN	Ø BSP
15	1/2"
20	3/4"
25	1"
32	1 1/4"
40	1 1/2"
50	2"
65	2 1/2"
80	3"
100	4"

Artikl; Item: **RACFF**
Čep, ženski
Tap, female



DN	Ø BSP
15	1/2"
20	3/4"
25	1"
32	1 1/4"
40	1 1/2"
50	2"
65	2 1/2"
80	3"
100	4"

Artikl; Item: **RACFCC**
Ženski s nastavkom
Female with extension



DN	Ø BSP
15	1/2"
20	3/4"
25	1"
32	1 1/4"
40	1 1/2"
50	2"
65	2 1/2"
80	3"
100	4"

Artikl; Item: **RACFFF**
Ženski, ženski navoj
Female, female thread



DN	Ø BSP
15	1/2"
20	3/4"
25	1"
32	1 1/4"
40	1 1/2"
50	2"
65	2 1/2"
80	3"
100	4"

Artikl; Item: **RACFFM**
Ženski, muški navoj
Female, male thread



DN	Ø BSP
15	1/2"
20	3/4"
25	1"
32	1 1/4"
40	1 1/2"
50	2"
65	2 1/2"
80	3"
100	4"

Artikl; Item: **RACMCC**
Muški s nastavkom
Male with extension



DN	Ø BSP
15	1/2"
20	3/4"
25	1"
32	1 1/4"
40	1 1/2"
50	2"
65	2 1/2"
80	3"
100	4"

Artikl; Item: **RACMFF**
Muški, ženski navoj
Male, female thread



DN	Ø BSP
15	1/2"
20	3/4"
25	1"
32	1 1/4"
40	1 1/2"
50	2"
65	2 1/2"
80	3"
100	4"

Artikl; Item: **RACMFM**
Muški, muški navoj
Male, male thread



DN	Ø BSP
15	1/2"
20	3/4"
25	1"
32	1 1/4"
40	1 1/2"
50	2"
65	2 1/2"
80	3"
100	4"

Ostali fitinzi na upit; Other fittings on request.

Holender komplet za uvaljavanje DIN 11850
Pipe union for expanding DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **GUA**
Brtva holendera DIN 11850
Pipe union gasket DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **FFM**
Holender navoj za uvaljavanje DIN 11850
Union male part for expanding DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **FFS**
Holender navoj za zavarivanje DIN 11850
Union male part for welding DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **MCM**
Holender konus za uvaljavanje DIN 11850
Union liner for expanding DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **MCS**
Holender konus za zavarivanje DIN 11850
Union liner for welding DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **GIR**
Matica DIN 11850
Nut DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **GIRPIA**
Slijepa matica DIN 11850
Blind nut DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Na zahtjev isporučujemo različite spojeve.
Upon request we deliver different kind of connections.

Artikl; Item: **GIRCAT**
Slijepa matica s lančićem DIN 11850
 Blind nut with chain DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **GUAPIA**
Brтва slijepa matice
 Gasket for blind nut



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **RIDF**
Reducirani holender navoj za zavarivanje DIN 11850
 Welding reducing male part DIN 11850



DN	DN
32/25	100/65
40/25	100/80
40/32	
50/25	
50/32	
50/40	
65/25	
65/32	
65/40	
65/50	
80/50	
80/65	

Artikl; Item: **RIDM**
Reducirani holender konus za zavarivanje DIN 11850
 Welding reducing liner DIN 11850



DN	DN
32/25	100/65
40/25	100/80
40/32	
50/25	
50/32	
50/40	
65/25	
65/32	
65/40	
65/50	
80/50	
80/65	

Artikl; Item: **CHI**
Holender ključ
 Wrench for union



DN
25
32
40
50
60
65
80
90
100

Artikl; Item: **TAP**
Slijepi holender konus DIN 11850
 Blind liner DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **SPEP**
Holender inspeksijsko staklo DIN 11850
 Union sight glass DIN 11850



DN
25
32
40
50
60
65
80
90
100
125
150

Artikl; Item: **VESPE**
Staklo inspeksijskog holendera
 Glass for sight glass



DN
25
32
40
50
60
65
80
90
100
125
150

Na zahtjev isporučujemo različite spojeve.
 Upon request we deliver different kind of connections.

Artikl; Item: **CURMAND**
Produženo koljeno 90°
 Expanding bend 90°



DN	De
25	28
32	34
40	40
50	52
65	70
80	85
90	88,9
100	101,6

Artikl; Item: **CURM45**
Produženo koljeno 45°
 Expanding bend 45°



DN	De
25	28
32	34
40	40
50	52
65	70
80	85
90	88,9
100	101,6

Artikl; Item: **CURM180**
Produženo koljeno 180°
 Expanding bend 180°



DN	De
25	28
32	34
40	40
50	52
65	70
80	85
90	88,9
100	101,6

Artikl; Item: **Y**
Y komad
 Y piece



DN	De
25	28
32	34
40	40
50	52
65	70
80	85
90	88,9
100	101,6

Artikl; Item: **RIDMAND**
Produžena koncentrična redukcija
 Expanding concentric reducer



De	De
34/28	101,6/52
40/34	
40/28	
52/40	
52/34	
52/28	
70/52	
70/40	
85/70	
85/52	
101,6/85	
101,6/70	

Artikl; Item: **RIDME**
Produžena excentrična redukcija
 Expanding eccentric reducer



De	De
34/28	101,6/52
40/34	
40/28	
52/40	
52/34	
52/28	
70/52	
70/40	
85/70	
85/52	
101,6/85	
101,6/70	

Artikl; Item: **MAND**
Alat za uvaljavanje
 Tube expander



DN
25
32
40
50
60
65
80
90
100

Artikl; Item: **DIFF**
Glava za pranje; Cleaning ball

Clip-on priključak; Clip-on connection
 Navojni priključak; Threaded connection



Ø Glave Ball
28
38
40
50
65
90
120

Na zahtjev isporučujemo različite spojeve.
 Upon request we deliver different kind of connections.

Artikl; Item: **TMAND**
Produženi T komad
Expanding Tee



DN	De
25	28
32	34
40	40
50	52
65	70
80	85
90	88,9
100	101,6

Artikl; Item: **TRID**
Reducirani T komad
Reduced Tee



DN	De
25	28
32	34
40	40
50	52
65	70
80	85
90	88,9
100	101,6

Artikl; Item: **CROM**
Križni komad za zavarivanje
Welding cross



DN	De
25	28
32	34
40	40
50	52
65	70
80	85
90	88,9
100	101,6

Artikl; Item: **POR**
Nastavak za crijevo
Hose nozzle



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **PORF**
Holender navoj s nastavkom za crijevo DIN 11850
Male part hose nozzle DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **PORM**
Holender konus s nastavkom za crijevo DIN 11850
Liner hose nozzle DIN 11850



DN	DN
10	125
15	150
20	
25	
32	
40	
50	
60	
65	
80	
90	
100	

Artikl; Item: **VALVRITS**
Nepovratni ventil
No return valve



Ø BSP
1/4"
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **FLTRI**
Filter za nepovratni ventil
Filter for no return valve



Ø BSP
3/8"
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Na zahtjev isporučujemo različite spojeve.
 Upon request we deliver different kind of connections.

Artikl; Item: **SPEVF**
Inspekcijsko staklo s holender navojem
ili za zavarivanje DIN 11850
Inspection glass for welding
or with male part
DIN 11850



DN
25
32
40
50
65
80
100
125
150

Artikl; Item: **FIL**
Kutni filter pod 90°
Angle filter 90°



DN
25
32
40
50
60
65
80
100
125
150

Artikl; Item: **VALVF**
Leptir ventil DIN 11850
Butterfly valve DIN 11850



DN
25
32
40
50
65
80
90
100
125
150

Artikl; Item: **VAL**
Kuglasta slavina
Ball valve



Ø BSP
1/2"
3/4"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Artikl; Item: **VALR**
Ventil za regulaciju
protoka DIN 11850
Flow regulating
valve DIN 11850



DN
25
32
40
50
65
80
100

Artikl; Item: **REG**
Cijevna obujmica
Pipe support



DN
20
25
32
40
50
60
65
80
90
100
125
150

Artikl; Item: **REGEPER**
Vijak za obujmicu
Bolt for pipe support



Dimenzioni
M8x90
M10x120

Artikl; Item: **REGEC**
Cijevna obujmica s maticom
Pipe support with nut



Ø BSP	Ø BSP
3/8"	3"
1/2"	3 1/2"
3/4"	4"
1"	5"
1 1/4"	6"
1 1/2"	
2"	
2 1/2"	

Na zahtjev isporučujemo različite spojeve.
 Upon request we deliver different kind of connections.

SMS holender za uvaljavanje ili zavarivanje
Pipe union for welding or expanding SMS



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **GUAS**
Brtna holendera SMS
Union gasket SMS



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **FFMS**
Holender navoj za uvaljavanje SMS
Union male part for expanding SMS



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **FFSS**
Holender navoj za zavarivanje SMS
Union male part for welding SMS



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **MCMS**
Holender konus za uvaljavanje SMS
Union liner for expanding SMS



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **MCSS**
Holender konus za zavarivanje SMS
Union liner for expanding SMS



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **GIRS**
Matica SMS
Nut SMS



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **GIRPS**
Slijepa Matica SMS
Blin nut SMS



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Na zahtjev isporučujemo različite spojeve.
 Upon request we deliver different kind of connections.

Artikl; Item: **CURMS**
Produženo koljeno 90°
Expanding bend 90°



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **CURM45S**
Produženo koljeno 45°
Expanding bend 45°



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **CURM180S**
Produženo koljeno 180°
Expanding bend 180°



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **RIDMANDS**
Produžena koncentrična redukcija
Expanding concentric reducer



D ₁	D ₂
38,1	25,4
50,8	25,4
50,8	38,1
63,5	38,1
63,5	50,8
76,1	50,8
76,1	63,5
101,6	76,1

Artikl; Item: **TMS**
Produženi T komad
Expanding Tee



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **UGE**
Sapnica 65°
Nozzle 65°



Ø BSP
1/4"

Artikl; Item: **FS**
Pužna objemica za crijevo
Gear hose clamp



DN
15
20
25
30
35
40
50
60
70
80
100
120

Na zahtjev isporučujemo različite spojeve.
 Upon request we deliver different kind of connections.

Spojnice za farmaceutsku industriju iz 316 materijala Fittings for pharmaceutical industry from 316 material



Na zahtjev isporučujemo različite spojeve.
Upon request we deliver different kind of connections.

Artikl; Item: **TAPCL**
TC blinda
TC blind cap



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **MORCL**
TC objmjica
TC heavy clamp



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **TROL**
TC ferula
TC ferrule



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"

Artikl; Item: **GUACL**
TC brtva
TC gasket



DN	INCH
25,4	1"
38,1	1 ½"
50,8	2"
63,5	2 ½"
76,1	3"
101,6	4"



Na zahtjev isporučujemo različite spojeve.
Upon request we deliver different kind of connections.

Artikl; Item: **SEMG**
Garola priključak za zavarivanje
Garrola welding connection



DN
40
50
60
70
80
100
120

Artikl; Item: **TAPG**
Garola slijepi priključak
Garrola blind tap



DN
40
50
60
70
80
100
120

Artikl; Item: **MORSG**
Garola obujmica
Garolla clamp



DN
40
50
60
70
80
100
120

Artikl; Item: **GUAG**
Garola brtva
Garrola gasket



DN
40
50
60
70
80
100
120



Marinox



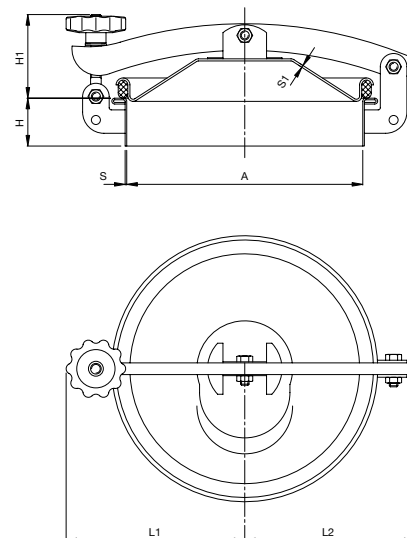
dodaci accessories

Marinox nudi potpuni asortiman dodataka, od manloha do zatvarača, od lanaca do spirala, od kotača do matica i vijaka itd.

Marinox offers a full range of accessories, from manholes to caps, from chains to spirals, from wheels to nuts and bolts, etc.

- 82** manlosi za spremnike
manholes for containers
- 83** poklopci šahtova za odvod
lids for drainage manholes
- 84** zatvarači i šarke
caps and hinges
- 88** lanci, užad i dodaci za sidrenje
chains, ropes and anchoring accessories
- 92** spirale
spirals
- 94** kotači
wheels
- 95** komponente za vrata
door components
- 96** komponente za stepeništa
staircase components
- 97** matice i vijci
nuts and bolts
- 98** materijali za zavarivanje
welding materials

Manlosi za inox spremnike nisu u izravnom kontaktu sa sadržajem, a proizvedeni su u AISI 304/316 L. Brtve manloha za standardne spremnike izrađene su od gume koja je prikladna za čuvanje namirnica koje nisu agresivne. Na upit možemo isporučiti brtve u Vitonu, silikonu, NBR-u, EPDM-u i u drugim polimerima na tržištu. Upotrebljavaju se u sljedećim sektorima: prehrambenom, kemijskom, ekološkom, prijevoznom, industrijskom i kod građevinskih instalacija. Manholes for inox containers are not in direct contact with the contents and are manufactured in AISI 304/316 L. Manhole seals for standard containers are made of rubber that is convenient for storing non-aggressive foodstuffs. On request, we can deliver seals in Viton, silicon, NBR, EPDM or other polymers on the market. They are used in the following sectors: food, chemical, ecological, transportation, industry and construction installations.



Artikl; Item: **MANLOH; MANHOLE**

A	H	H1	L1	L2	S	S1
Dimenzije u mm; Dimensions in mm						
220	45	50	168	160	1,5	1,2
300	45	85	208	193	1,5	1,2
370	45	85	242	233	1,5	1,2
400	45	102	258	250	2	1,2
500	45	105	310	302	2	1,5
600	45	90	360	355	2	1,5

A= koristan prolaz; useful passage

Najveći radni tlak; Highest working pressure: 0,02 BAR

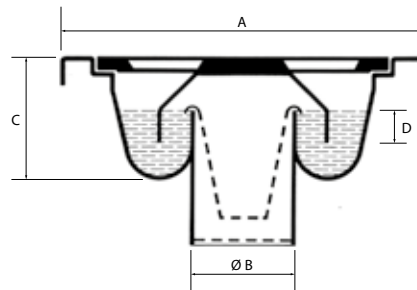
Tablica za izbor brtve manloha prema tipu medija; Table for manhole gasket according to field of application

Materijal; Material	°C najmanja i najveća dopuštena °C highest and lowest permitted	Boja; Colour	Preporučene primjene Recommended applications
Srodan prehrambenom; Related to food	-45 °C +80 °C	Crvena; Red	Vino; Wine
NBR	-30 °C +100 °C	Bijela; White	Etilni alkohol; Ethyl alcohol Biljna ulja; Vegetable oils Mlijeko; Milk
Silikon	-60 °C +200 °C	Cigla; Brick Transparentna; Translucent	Mlijeko; Milk Vodikov peroksid 90 %; Hydrogen peroxide 90 %
EPDM	-45 °C +130 °C	Crna; Black	Ocat; Vinegar Limunska kiselina; Citric acid Taninska kiselina; Tannic acid
Viton	-20 °C +200 °C	Crna; Black	Sojino ulje; Soya oil Dušična kiselina; Nitric acid

Bezmirisni poklopci šahtova za odvod od inox čelika Stainless steel Odourless Lids for Drainage Manholes

Poklopci šahtova za odvod izrađeni su u potpunosti od INOX ČELIKA AISI 316, te su savršeno prilagodljivi korištenim prevlakama: ciglenim, od betona otpornog na trošenje, smolenim, PVC. Ne oksidiraju i ne hrđaju i olakšavaju čišćenje prostorija u svim sektorima prehrambene industrije.

Lids for drainage manholes are made entirely of INOX STEEL AISI 316, thus perfectly adaptable to the coatings used: brick, wear resistant concrete, resin, PVC. They do not oxidise or corrode and they facilitate the cleaning of premises in all food industry sectors.



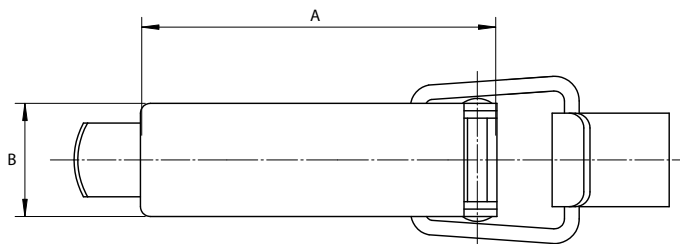
Artikl; Item: **CHIUSICE** - Artikl; Item: **CHIUSI**

Košarica uklonjiva na zahtjev Basket removable on request	A	Ø B	C	D	Protok; Flow	Protok; Flow	Dostupnost Availability
Ø	Dimenzije u mm; Dimensions in mm				lt/min.	Kg.	
	100	40	34	14	14	70	•
50	150	50	75,5	47	30	330	x
63	200	63	95	53	44,5	1900	•
100	250	100	157	105	122	1300	x
80	300	80	105	62	77	700	•
100	300	100	160	62	122	700	•
Rozeta teških tereta; Heavy load rosette	debljina 20 mm za poklopce šahtova od 300 isporuka na upit; 20 mm width for manhole lids from 300 deliveries on request					3450	



Zatvarači s podesivim vijkom i zatvarači s polugom Lids with Adjustable Bolt and Fasteners with Lever

Artikl; Item	AxB
700	60x25
701	80x30
702	100x40
703	43x17
704	70x25
705	44x17



Artikl; Item: **700**
Standardni; Standard



Artikl; Item: **701**
Srednji; Medium



Artikl; Item: **702**
Veliki; Large



Artikl; Item: **703**
Zatvarač s presavijenim stremenom
Fastener with folded stirrup



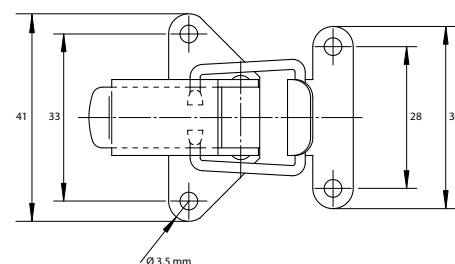
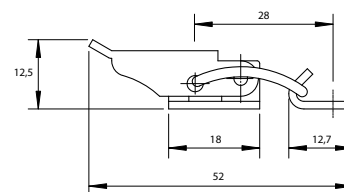
Artikl; Item: **704**
Zatvarač s oprugom
Fastener with spring



Artikl; Item: **705**
Zatvarač s ravnim stremenom
Fastener with flat stirrup

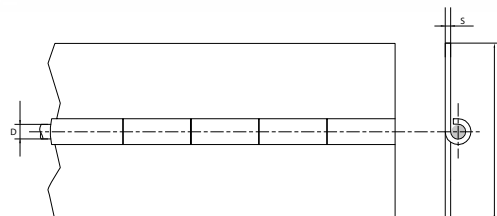


Artikl; Item: **Universale**
Univerzalni zatvarač bez nepodesive zaštite
Universal fastener without fixed protection



Artikl; Item: **CER**

Širina, dok je otvoren Width, while open A (mm)	Debljina trake Tape thickness S (mm)			Ø Osovina Shaft D (mm)		
20	0,7			1,5		
32	0,7				2	
40	0,7			1,5		
40		1,5			4	
40		1,5				6
50			2			6
60			2			6
80			2			6
100				3		9



Na upit možemo isporučiti šarke s različitim otvorima, dužinama i svojstvima. We can deliver hinges with various openings, lengths and properties on request.

Šarka, s otvorom u obliku knjige i jastučićima

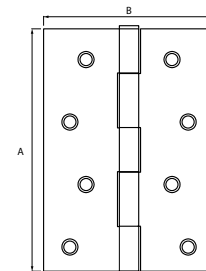
Ball Bearing Hinges

Artikl; Item: **709c**

Šarka, s otvorom u obliku knjige i jastučićima

Ball bearing hinge

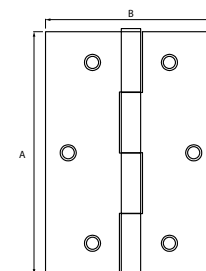
Artikl; Item	A mm	B mm	Sp. mm
709c	102	89	2,5

Artikl; Item: **709e**

Šarka, s otvorom u obliku knjige i jastučićima

Ball bearing hinge

Artikl; Item	A mm	B mm	Sp. mm
709e	89	76	2,5

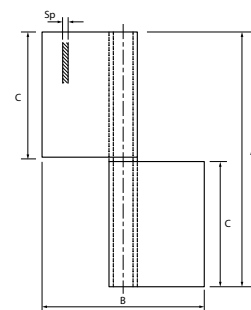


Šarka, odvojivo, s otvorom u obliku knjige, okrugli rub, lijevo i desno, za zavarivanje Hinges, separable, ball bearing, round edge, left and right, for welding

Artikl; Item: **CERSFILABILE**

Šarka, odvojivo
Hinge, separable

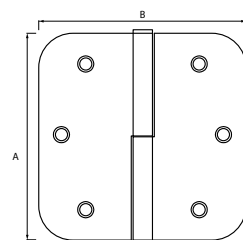
A mm	B mm	C mm	Sp mm
70	42	35	2



Artikl; Item: **709i**

Šarka, otvor u obliku knjige, okrugli rub, lijevo i desno
Hinge, ball bearing, round edge, left and right

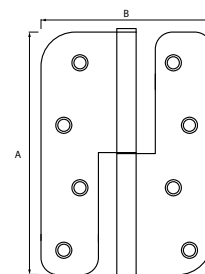
Artikl Item	A mm	B mm	Sp. mm
709i	80	80	2,5



Artikl; Item: **709m**

Šarka, otvor u obliku knjige, okrugli rub, lijevo i desno
Hinge, ball bearing, round edge, left and right

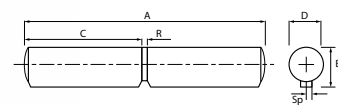
Artikl Item	A mm	B mm	Sp. mm
709m	100	86	3



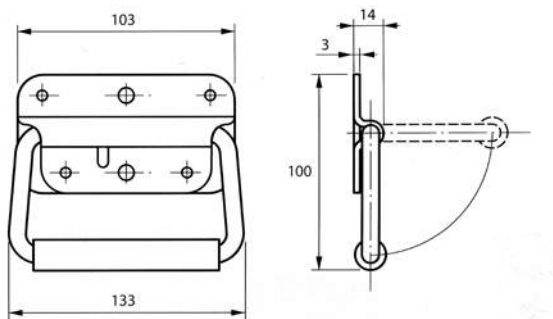
Artikl; Item: **CERSALD**

Šarka, na spajanje, 2 krila
Hinges, for welding, two wings

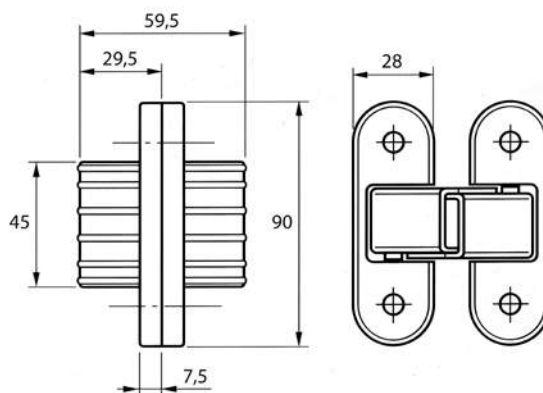
Dimenzija Dimension	A mm	B mm	C mm	R mm	D mm	Sp mm	Osovina Shaft mm
6	60	15	27	2,0	12,0	2,0	8
8	80	15	37	2,0	12,0	2,0	8
10	100	18	46	2,2	14,5	2,0	10
12	120	21	55	2,2	16,5	2,0	10
14	140	21	65	2,5	16,5	2,5	11



Artikl; Item: **Maniglia**



Artikl; Item: **Cerscomparsa**
Skrivena šarka
 Concealed hinge



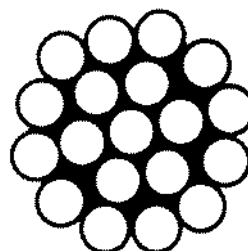


Artikli; Item: **Catena****Lanac vrste "genovese" Inox 304**
"Genovese" chain, Inox 304

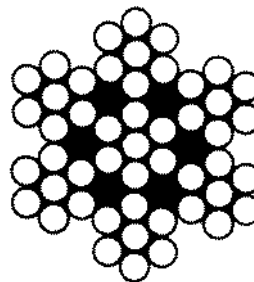
Ø mm	Dimenzije; Dimensions mm	Težina; Weight m/gr
2	14x5	72
3	19x7	166
4	20,5x8	295
5	22x9,5	465
6	28x11	670
8	35x14,5	1250

Lanac za komercijalnu uporabu, neprikladan za podizanje.
Chain for commercial use, unsuitable for lifting.Artikli; Item: **Fune****Sajla; Rope AISI 316 1x19**

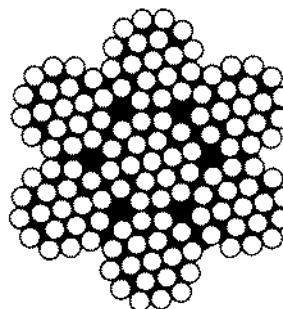
Promjer Diameter mm	Aprox. težina Approx. weight (Kg/100m)	Min. vlačna čvrstoća Min. tensile strength (KN)	Min. vlačna čvrstoća Min. tensile strength (Kg)
1	0,495	0,83	85
1,5	1,11	1,86	190
2	2	3,30	337
2,5	3,1	5,15	525
3	4,5	7,42	757
4	7,9	13,20	1346
5	12,4	20,60	2101
6	17,8	29,70	3029
7	24,3	40,40	4120
8	31,7	52,80	5384
10	49,4	82,50	8413
12	71,2	118,66	12100
14	97,1	158,87	16200
16	127	206,92	21100

Artikli; Item: **Fune****Sajla; Rope AISI 316 7x7**

Promjer Diameter mm	Aprox. težina Approx. weight (Kg/100m)	Min. vlačna čvrstoća Min. tensile strength (KN)	Min. vlačna čvrstoća Min. tensile strength (Kg)
1	0,42	0,63	64
1,5	0,89	1,42	145
2	1,57	2,25	229
2,5	2,55	3,95	403
3	3,54	5,07	517
4	6,29	9,01	919
5	9,83	14,10	1438
6	14,2	20,30	2070
7	19,3	30,40	3100
8	25,2	36,10	3681
10	39,3	55,21	5630
12	56,7	81,10	8270

Artikli; Item: **Fune****Sajla; Rope AISI 316 7x19**

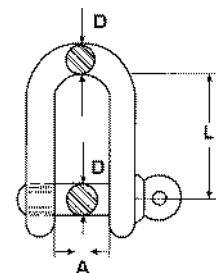
Promjer Diameter mm	Aprox. težina Approx. weight (Kg/100m)	Min. vlačna čvrstoća Min. tensile strength (KN)	Min. vlačna čvrstoća Min. tensile strength (Kg)
2	1,6	2,33	238
2,5	2,4	3,66	373
3	3,4	4,69	478
4	6,1	8,34	850
5	9,5	13,00	1326
6	13,89	18,80	1917
7	18,7	25,50	2600
8	24,3	33,30	3396
10	38,1	52,10	5313
12	54,8	75,00	7648
14	74,6	100,03	10200
16	97,4	130,43	13300



Artikl; Item: **Grilli**

Škopac od inox čelika AISI 316; Inox Steel Shackle AISI 316

D mm	A mm	L mm
4	8	16
5	10	20
6	12	24
7	14	28
8	16	32
10	20	40
12	24	48
13	26	52
16	32	64
19	38	76
22	44	88
25	50	100

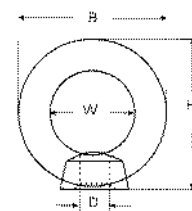


Artikl; Item: **GolfareF**

Očni vijak, ženski, DIN 582 od inox čelika AISI 316

Eye bolt, female, DIN 582, Inox steel AISI 316

D mm	B mm	W mm	H mm
M 6	28	16	31
M 8	36	20	36
M 10	45	25	45
M 12	54	30	53
M 16	63	35	62
M 20	72	40	71
M 24	90	50	90

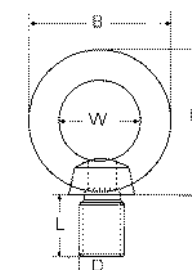


Artikl; Item: **GolfareM**

Očni vijak, muški, DIN 580 od inox čelika AISI 316

Eye bolt, male, DIN 580, Inox steel AISI 316

D mm	B mm	L mm	W mm	H mm
M 6	28	12	15	31
M 8	36	13	20	36
M 10	45	17	25	45
M 12	54	20,5	30	53
M 16	63	27	35	62
M 20	72	30	40	71
M 24	90	36	50	90

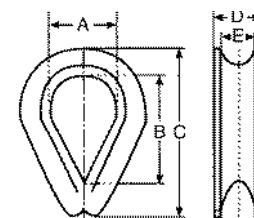


Artikl; Item: **Redance (Redanča; Thimble)**

Redance od inox čelika AISI 304

Inox Steel Redance AISI 304

Ø uže; rope mm	A mm	B mm	C mm	D mm	E mm
2	7	12	21	5	3
2,5	9	14	23	6	4
3	11	16	27	7	5
4	14	21	31	8	6
5	16	26	39	9,5	7
6	18,5	29	42	10	8
8	21	35	50	12	9
10	26	42	59	14	11
12	31	48	70	17,5	14
14	34	55	76	20	16
16	39	63	85	21	17
18	41	68	93	23	19
20	45	73	103	26	22
22	50	82	112	32	24
24	54	92	125	34	26

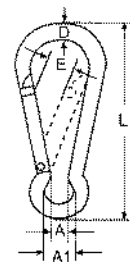


Artikl; Item: **Mosch**

Sigurnosna spojka (karabiner) od inox čelika AISI 316

Inox steel carabiner (biner) AISI 316

D mm	L mm	A mm	A1 mm	E mm
5	50	6	10	8
6	60	8	13	9
7	70	8	13	9
8	80	8	13	9
10	100	10	16	12
11	120	11	18	16

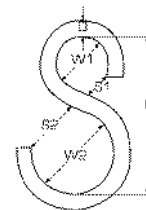


Artikl; Item: **GS**

Kuka na S od inox čelika AISI 316

Inox steel S Hook AISI 316

D mm	L mm	W1 mm	W2 mm	S1 mm	S2 mm
3	30	9	16	5	10
4	36	12	19	6	12
5	43	14	21	6	12
6	50	15	25	7	15
8	67	20	33	9	20

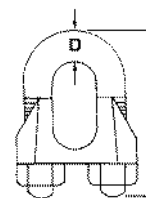


Artikl; Item: **Morsetto**

Stezaljka za užje od inox čelika AISI 316

Inox steel clamps AISI 316

Ø užje; rope mm	D mm	H mm
2	M3	17,5
3	M3	21
4	M4	23
5	M5	25
6	M6	32
8	M6	35
10	M8	44
13	M10	55

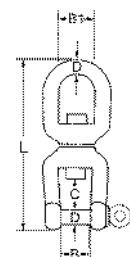


Artikl; Item: **Girof**

Vrtilica/spojnica za cijevi AISI 316

Swivel/joint for pipes AISI 316

D mm	L mm	B mm	C mm	B1 mm
6	66	12	11	15
8	94	16	16	20
10	118	20	22	24
13	152	26	28	32
16	188	32	37	39
19	229	38	45	41

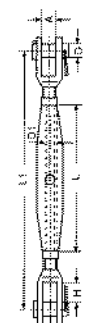


Artikl; Item: **Tendi**

Zatezač od inox čelika AISI 316

Inox steel tensioner AISI 316

D1 mm	L mm	L1 mm	A mm	D mm	H mm
M4	65	110	4	3	10
M5	80	140	6,5	5	10
M6	95	150	7,5	6	10
M8	105	165	11	8	11
M10	125	190	12	9	14
M12	150	245	14	12	21
M14	165	270	15	12	22
M16	190	310	17	16	26
M20	210	385	20	19	30



Gibljiva spirala predstavlja najbolje i najekonomičnije rješenje za prenošenje velikih količina materijala u kratkom roku. Gibljive spirale izrađuju se od nehrđajućeg čelika i hladno valjane. Raznolikost proizvodnje omogućuje proizvodnju spirala počevši od vanjskog promjera od 45 mm do preko 1000 mm dok debljina varira od 3 do 12 mm. Kontinuirana spirala, zahvaljujući mogućnosti svestrane primjene i efikasnosti, upotrebljava se u raznim poljoprivrednim i industrijskim djelatnostima kao što su primjerice: skladištenje žitarica u silosima, proizvodnja ralica za snijeg, svrdla, mješalica, bušnih alata za prijevoz betona, napajanja postrojenja za grijanje na pelete i biomasu, mikro dozatora, obrade blata i oprema za zbijanje, za šipke za skupljanje strojeva za žetvu, kod uljnih postrojenja i enoloških strojeva, ekstrudera.

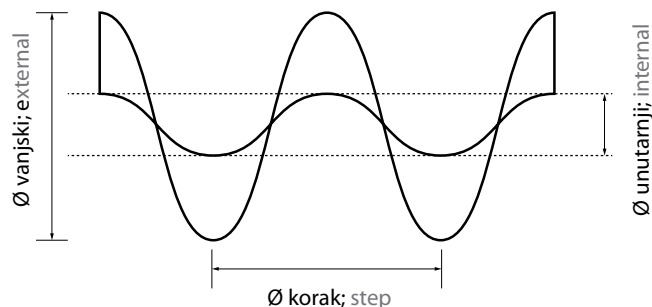
A flexible spiral represents the best and the most economical solution for transferring large quantities of materials in a short time. Flexible spirals are made of stainless steel and are cold rolled. The diversity of production enables the production of spirals ranging from 5 mm external diameter to over 1000 mm, while their thickness varies from 3 to 12 mm. A continuous spiral, thanks to the possibility of comprehensive application, and efficiency, is used in diverse agricultural and industrial activities, such as: storing grain in silos, snow plough production, drills, mixers, drilling tools for transporting concrete, heating plant feeder for pellets and biomass, micro dispensers, mud processing and equipment for compression, for rods for collecting machines during harvesting, oil plants and oenology machines, and extruders.

Artikl; Item: **SD**



- STANDARDNA DUŽINA: šipke od 3 mt. (± 2 %)
- VANJSKI PROMJER: u funkciji širine remena i unutarnjeg promjera.
- UNUTARNJI PROMJER: u funkciji vratila, čak i niže od 1/5 vanjskog promjera.
- KORAK: jednak vanjskom Ø; za posebne prijevoze, različit korak, čak i niži od 2/3 ca. vanjskog Ø ili 1,5 puta veći od promjera.
- DEBLJINA: na unutarnjem Ø otprilike duple veličine vanjskog.
- SMJER NAMOTA: lijevi i desni, precizirati u slučaju narudžbe.

- STANDARD LENGTH: 3 mt. rods (± 2 %)
- EXTERNAL DIAMETER: in the function of the belt's width and internal diameter.
- INTERNAL DIAMETER: in the function of the spindle, even less than 1/5 of the external diameter.
- STEP: equal to the external Ø; for special transportation, different step, even less than 2/3 of the external Ø or 1.5 times larger than the diameter.
- THICKNESS: at the internal Ø, approximately double the size of the external one.
- THREAD DIRECTION: left and right, state precisely if ordered.

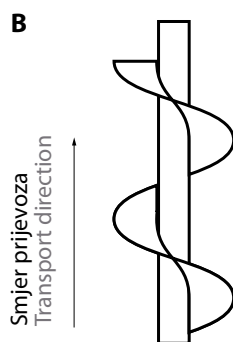


Rotacija u smjeru kazaljke na satu; Clockwise rotation:

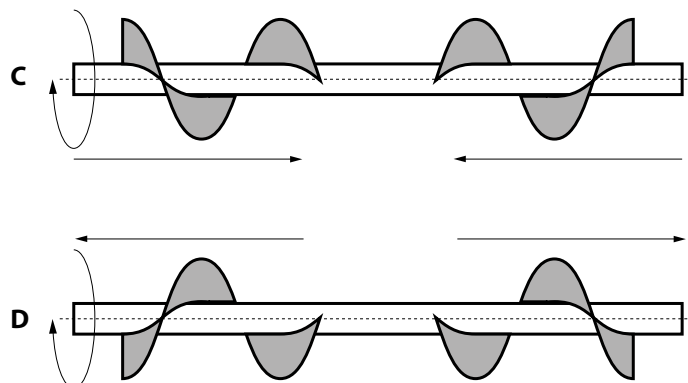
(Obratite pažnju da se okretanjem spirale ne mijenja smjer rotacije; Ensure you do not change the rotation direction with the spiral rotation)



Desna spirala; Right spiral



Lijeva spirala; Left spiral

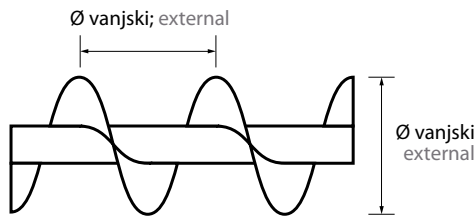


Smjer prijevoza; Transport direction

Tolerancija; Tolerance			
Ø Vanjski nazivni; External nominal	Ø Unutarnji; Internal	Korak; Step	Ø Vanjski; External
fino a 150 mm	-0 + 20/10	± 5%	- 8/10 + 20/10
150 - 250 mm	-0 + 25/10	± 5%	- 8/10 + 25/10
250 - 500 mm	-0 + 32/10	± 5%	- 20/10 + 42/10

STANDARDNI KORAK (KVADRAT)
STANDARD STEP (QUADRATE)

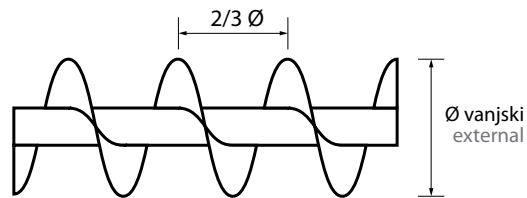
Korak je jednak vanjskom promjeru kod skoro svih prijevoza materijala.
The step is equal to the external diameter with almost all material transport.



SMANJENI KORAK; DECREASED STEP

Upotrebljava se u mješalicama i kod prijevoza s nagibom većim od 20° (u pravilu se vanjski Ø smanjuje do 2/3, smanjenje je veće preko vanjskog Ø od 300 mm)

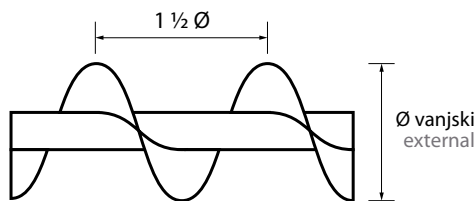
Used in mixers and for transport with a 20° slant (by default, the external Ø is decreased to 2/3, decreasing is greater with an external Ø of 300 mm)



PRODUŽENI KORAK; PROLONGED STEP

Kod brzih prijevoza klizajućih materijala ili kod uporabe u mješalicama za tekućinu (čak i veći od 1,5-strukog vanjskog Ø)

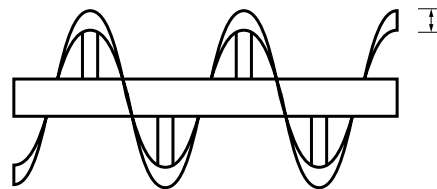
For the rapid transportation of slippery materials or for use in mixers for liquids (even larger than 1.5 fold external Ø)



SPIRALNA TRAKA; SPIRAL TAPE

Za prijevoz viskoznih ili vlažnih materijala, za ralice za snijeg itd. (izbjegavaju se prijanjanja između petlje i stabla)

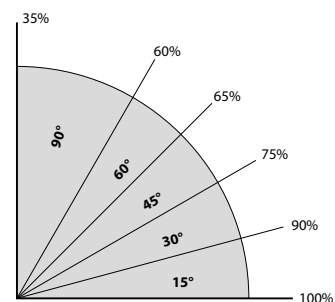
For the transportation of viscose or moist materials, for snow ploughs, etc. (adherence between the loops and trees)



UTJECAJ INKLINACIJE NA ISTJEK; IMPACT OF THE INCLINATION ON OUTFLOW

ISTJEK u smjeru kazaljke na satu varira u odnosu na proizvod kojeg se prenosi: kalibraciju vlage, Ø pužnice, inklinaciju, brzinu rotacije, stupanj popunjenosti itd. Proučiti donju tablicu kako bi se vidjele okvirne vrijednosti pri prijevozu pšenice sa spiralom Ø 80 (cijev Ø 100) 659/750 okretaja/min.

Clockwise OUTFLOW varies in relation to the product being transported: moisture calibration, helix Ø, inclination, rotation speed, occupancy level, etc. See the Table below for the approximate values when transporting wheat with Ø 80 spiral (Ø 100 pipe) 659/750 rotations/min.



Inklinacija; Inclination	0°	15°	30°	45°	60°	90°
Istjek; Outflow ton/hr.	10	9	7,5	6,5	6	3,5

Standardne mjere; Standard measures Artikl; Item: **SD**

Vanjski promjer; External diameter mm	Korak; Step mm	Po stablu od mm Per tree from mm	Debljina vanjskog ruba mm Outer edge thicknes mm
50	50	16.0	2.2
80	80	26.9	2.4
100	100	33.7	2.5
120	120	33.7	2.2
150	150	48.3	2.4
160	160	48.3	2.4
180	180	48.3	2.4
200	200	48.3	2.0
200	200	60.3	2.3
400	400	114.3	3.5

Tvrtka može, na specifičan upit klijenta, isporučiti sve vrste nestandardnih spirala.
The company can deliver all types of non-standard spirals at the specific request of a client.

Prikazani kotači i njihovi nosači s kotačem osmišljeni su za ručno rukovanje te za brzinu rada koja ne prelazi 4 km/h. U određenim slučajevima i kod posebnih primjena te zbog sigurnosnih propisa, upotrebljava se dodatni mehanizam, koji upotpunjuje već postojeći, poznatiji pod nazivom kočnice. The wheels shown and their carriers are designed for manual handling and for an operating speed not exceeding 4 km/h. In specific cases, special applications and due to safety regulations, an additional mechanism is used that complements the existing one, known as brakes

KOTAČI OD POLIAMIDA S MONOLITNOM KONSTRUKCIJOM; POLYAMIDE WHEELS WITH A MONOLIT STRUCTURE

Artikl; Item: **RUBFSF**
Kotač s fiksnom pločom
Wheel with fixed plate



Artikl; Item: **RUBGSF**
Kotač s okretajućom pločom
Wheel with rotating plate



Artikl; Item: **RUBGCF**
Kotač s okretajućom pločom i prednjom kočnicom na pedalu
Wheel with rotating plate and front brake pedal

Promjer Diameter mm	Širina Width mm	Nosivost Carrying capacity Kg	Artikl; Item: RUBFSF fiksna ploča fixed plate	Artikl; Item: RUBGSF okretajuća ploča rotating plate	Artikl; Item: RUBGCF okretajuća ploča, prednja kočnica na pedalu Rotating wheel, front brake pedal
80	30	120	•	•	•
100	35	120	•	•	•
100	40	180	x	x	x
100	45	300	x	x	x
125	30	180	•	•	x
125	40	180	x	x	•
125	45	300	x	x	x
150	40	180	•	•	•
150	40	300	x	x	x
175	50	300	•	•	x
200	50	300	•	•	•

**KOTAČI S JEZGROM OD POLIAMIDA, PREVLAČENJE S BRIZGANIM POLIURETANOM
POLYAMID CORE WHEEL, COATING WITH SPRAYED POLYURETHANE**

Artikl; Item: **RURFSF**
Kotač s fiksnom pločom
Wheel with fixed plate



Artikl; Item: **RURGSF**
Kotač s okretajućom pločom
Wheel with rotating plate



Artikl; Item: **RURGCF**
Kotač s okretajućom pločom i prednjom kočnicom na pedalu
Wheel with rotating plate and front brake pedal

Promjer Diameter mm	Širina Width mm	Nosivost Carrying capacity Kg	Artikl; Item: RUBFSF fiksna ploča fixed plate	Artikl; Item: RUBGSF okretajuća ploča rotating plate	Artikl; Item: RUBGCF okretajuća ploča, prednja kočnica na pedalu Rotating wheel, front brake pedal
80	30	120	•	•	•
100	30	120	•	•	•
125	30	180	•	•	•
125	40	250	x	x	x
150	35	180	•	•	•
175	45	300	•	•	x
200	50	300	•	•	•

• standardne mjere; x na zahtjev

• standard measures; x at request



KOMPONENTE ZA VRATA; DOOR COMPONENTS

DODACI





Navojna šipka Threaded rod	DIN 975 UNI 6547	Vijci sa samoureznim navojem s upuštenom plosnatom glavom i križastim prorezom Bolts with self-cutting thread with countersunk flat top and Phillips head	DIN 7982 UNI 6955
Vijci sa šesterokutnom glavom i djelomičnim finim navojem Bolts with hexagonal head and partly fine thread	DIN 931 UNI 5737	Vijci sa samoureznim navojem s upuštenom polusfernom glavom i križastim prorezom Bolts with self-cutting thread with countersunk hemispherical top and Phillips head	DIN 7983 UNI 6956
Vijci sa šesterokutnom glavom i punim finim navojem Bolts with hexagonal head and full fine thread	DIN 933 UNI 5739	Krilne matice Wing nuts	DIN 315 UNI 5448
Vijak bez glave s unutarnjim šesterokutom i plosnatim vrhom Headless bolt with internal hexagon and flat top	DIN 913 UNI 5923	Šesterostrane matice (visoke) Hexagonal nuts (high)	DIN 936 UNI 5587
Vijak bez glave s unutarnjim šesterokutom i konusnim vrhom Headless bolt with internal hexagon and conical top	DIN 914 UNI 5927	Šesterostrane matice (srednje) Hexagonal nuts (medium)	DIN 934 UNI 5588
Vijak bez glave s unutarnjim šesterokutom i polusfernim vrhom Headless bolt with internal hexagon and hemispherical top	DIN 916 UNI 5929	Šesterostrana zatvorena matica Hexagonal closed nut	DIN 1587 UNI 5721
Vijci s cilindričnom glavom i unutarnjim šesterokutom Bolts with cylindrical top and internal hexagon	DIN 912 UNI 5931	Podloška / Ravna podložna pločica Washer / flat washer plate	DIN 125-A UNI 6592
Vijci s upuštenom glavom i unutarnjim šesterokutom Bolts with countersunk top and internal hexagon	DIN 7991 UNI 5933	Podloška / Ravna široka podloška Washer / flat wide washer	DIN 9021 UNI 6593
Vijci s cilindričnom glavom i prorezom Bolts with cylindrical top and slot	DIN 84 UNI 6107	Elastične podloške Flexible washers	DIN 127 B DIN 127 B
Vijci s upuštenom plosnatom glavom i prorezom Bolts with countersunk flat top and slot	DIN 96 UNI 6109	Vanjski uskočnici External circlips	DIN 471 UNI 7435
Vijci s upuštenom polusfernom glavom i prorezom Bolts with countersunk hemispherical top and slot	DIN 965 UNI 6110	Unutarnji uskočnici Internal circlips	DIN 472 UNI 7437
Vijci sa samoureznim navojem sa šesterokutnom glavom Bolts with self-cutting thread with hexagonal head	DIN 7976 UNI 6949	Rascjepka Split pin	DIN 94 UNI 1336
Vijci sa samoureznim navojem sa cilindričnom glavom i križastim prorezom Bolts with self-cutting thread with cylindrical hemispherical top and Phillips head	DIN 7981 UNI 6954	Zatici Spring pins	DIN 1481 UNI 6873



Artiki; Item	Opis; Description
PASTA01	Pasta za dekapiranje Avesta; Avesta paste for pickling
PASTA02	Pasta za dekapiranje; Paste for pickling
PENNELIAG	Četka za pastu; Brush for paste
RILEVATOREM	Detektor za molibden; Molybdenum detector
ELET	Elektrode za zavarivanje; Welding electrodes
FILOS	Žica za zavarivanje; Welding wire (thread)

Artiki; Item	Opis; Description
BARS	Elektrode za zavarivanje; Rods (wire for welding rod)
SPAZCIRCG	Kružna četka s drškom; Round brush with handle
SPAZCIRSG	Kružna četka s rupom; Round brush with opening
SPAZPEN	Četka-kist promjera 30; Brush, diameter 30
SPAZCURL	Četka od čvrstog drva s inox valovitim žicom; Wood brush with wavy inox wire
DISB	Beartex disk, promjera 100, sa ili bez otvora; Beartex discs, diameter 100, with/without opening

usluge services

Dopunu iznimnoj dostupnosti čini ponuda usluga s Marinox potpisom, počevši od skladišta i skladištenja, jedinstvenih u svojoj vrsti unutar kruga lokalnih distributera, pa sve do visoko specijaliziranih obrada i isporuka fokusiranih na iznimnoj točnosti i brzini.

Supplementing the exceptional availability is the services offer signed by Marinox, ranging from warehouses and storage, unique in their kind within the local distributors' pool, to highly specialized processing and deliveries focused on exceptional accuracy and speed.

- 100** skladište
warehouse
- 101** skladištenje
storage
- 102** obrada i isporuka
processing and delivery
- 103** područja primjene
areas of application

Marinox je prisutan na tržištu sa širokom paletom proizvoda od inox čelika AISI serije 300 i 400: **Limovi 2B, F1, polirani, satinirani i scotch brite, zaštićeni PVC-om, limove s posebnim završnim obradama; cijevi TIG, HF, polirane i satinirane, mehaničke cijevi, bešavne cijevi, posebni profili; razne šipke uključujući okrugle valjane, vučene i brušene, rezane plosnate i valjane, kvadratne, šesterokutne, kutne, T i L profile, razne profile; mreže, rešetke, sajle, lance i fitinge.** Svi artikli iz kataloga dostupni su u realnom vremenu kako bi zadovoljili sve vrste zahtjeva.

Marinox is present on the market with a wide range of products made of inox steel AISI series 300 and 400: **Sheet metal 2B, F1, polished, satinized and scotch brite, protected with PVC, sheet metal with special finishing processes; TIG and HF tubes, polished and satinized, mechanical tubes, seamless tubes, special profiles; various rods including round rolled, drawn and brushed, cut flat and rolled, square, hexagonal, corner, T and L profiles, various profiles; meshes, grids, cables, chains and fittings.** All the items in the catalogue are available in real time to meet all types of demands.



Kako bi Vam osigurala brzu i pravovremenu uslugu, grupacija je odlučila investirati u tehnološke inovacije automatizirajući u potpunosti proces skladištenja i pripremanja robe. **14 000 m² natkrivene površine, automatizirana skladišta koja mogu pohraniti 1500 kutija s pojedinačnim kapacitetom od 3000 kg i koja se protežu i unutar i izvan pogona: ove brojke sadrže dodanu vrijednost koju nudi ECOR grupa, mogućnost da isporuči narudžbe u roku od 24 sata rušeći standardno vrijeme čekanja kod drugih dobavljača.**

To provide a fast and timely service, the group has decided to invest in technological innovations and completely automate the process of storing and preparing goods. **14,000 m² indoor service, automated warehouses that can store 1500 boxes with an individual capacity of 3000 kg and that spread both within and outside of the plant: these figures contain added value offered by ECOR group, a possibility to deliver an order within 24 hours, breaking the standard waiting period with other suppliers.**



Usluga krojena po mjeri

Tailor-made service

Zahvaljujući višegodišnjem iskustvu, Marinox je imao priliku stupiti u kontakt s najrazličitijim nestandardnim zahtjevima, i budući da je mogao računati na visoku stručnost svojih kvalificiranih zaposlenika, razvio je najsuvremeniju personaliziranu vrstu usluge. **Dostupne obrade uključuju satiniranje, poliranje, dekapiranje, rezanje specijalnim škarama ili pilom, zavarivanje, rezanje laserom, vodenim mlazom ili plazmom, izrada konstrukcija i stolarija i montaža cjevovoda i postrojenja.**

Thanks to its years of experience, Marinox has encountered the most different non-standard demands, and since it could rely on the expertise of its skilled employees, it developed the most up-to-date customised service. **Available processing include satinizing, polishing, pickling, cutting with special scissors or saw, laser, water jet or plasma cutting, manufacturing structures and joinery.**



Pravovremenost s Marinox potpisom

Timeliness Signed by Marinox

Čitava flota kamiona u vlasništvu grupacije osigurava isporuku u čitavoj regiji u roku od 24 sata od unosa narudžbi, pravovremenost po kojoj se Marinox razlikuje od ostalih konkurenata na tržištu.

Istovremeno ECOR svojim proizvodima opskrbljuje klijente iz cijelog svijeta upotrebljavajući ambalažu sukladnu najsuvremenijim međunarodnim standardima.

An entire fleet of trucks owned by the Ecor group ensures delivery in the entire region within 24 hours from placing an order, timeliness that distinguishes Marinox from its competitors on the market.

At the same time, ECOR provides products for clients all over the world using packages compatible with the latest international standards.

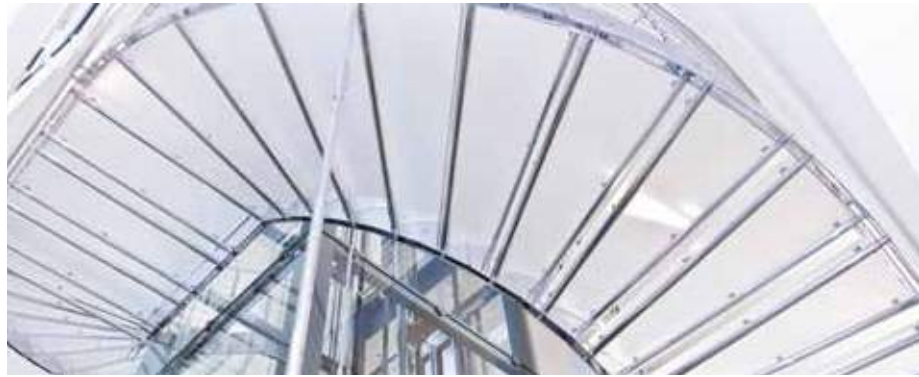


Nehrđajući čelik je materijal s visokim mehaničkim svojstvima, otporan na koroziju i u mogućnosti da osigura higijenu.

Pruža raznovrsne mogućnosti uporabe u bezbroj sektora poput **prehrambene industrije, u raznim postrojenjima, u građevinskom sektoru, kod opremanja, u naftnoj, kemijskoj i farmaceutskoj industriji, brodogradnji i u mnogih drugih.**

Stainless steel is a material with high mechanical properties, resistant to corrosion and capable of ensuring hygiene.

It offers diverse possibilities for use in countless sectors such as **the food industry, various facilities, in the construction sector, furnishing, oil, chemical and pharmaceutical industries, shipbuilding and many others.**



Marinox

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