

● Duplex stainless steels are the ideal material for storage tanks
 - no coating
 - no maintenance
 - no rust
 - 100% availability
 Industeel has developed a software to evaluate the benefit of using stainless steel plates in a variety of storage tanks (CALRES).

● Maintenance costs can be reduced by using more corrosion resistant materials. Corrosion problems are often the cause of unexpected failures, downtime or downgraded process conditions. Industeel corrosion specialists will help you to save money and to prevent corrosion from eating into your profits.

● Mill closure tends to increase the concentration of chlorides in process waters. Industeel offers corrosion resistant materials to avoid localized corrosion or stress corrosion cracking : UR 2202, UR 2304, UR 2205.

● Duplex stainless steels are excellent materials for pulp recycling equipment :
 - mixers
 - hydropulpers, ...

● CREUSABRO® 4800 and 8000 outperform standard low alloy steels in dry abrasion resistance.
 ● UR 2202 and 2304 excel in wet abrasive conditions. Lean duplex stainless steels combine a good resistance to corrosion and excellent mechanical properties.

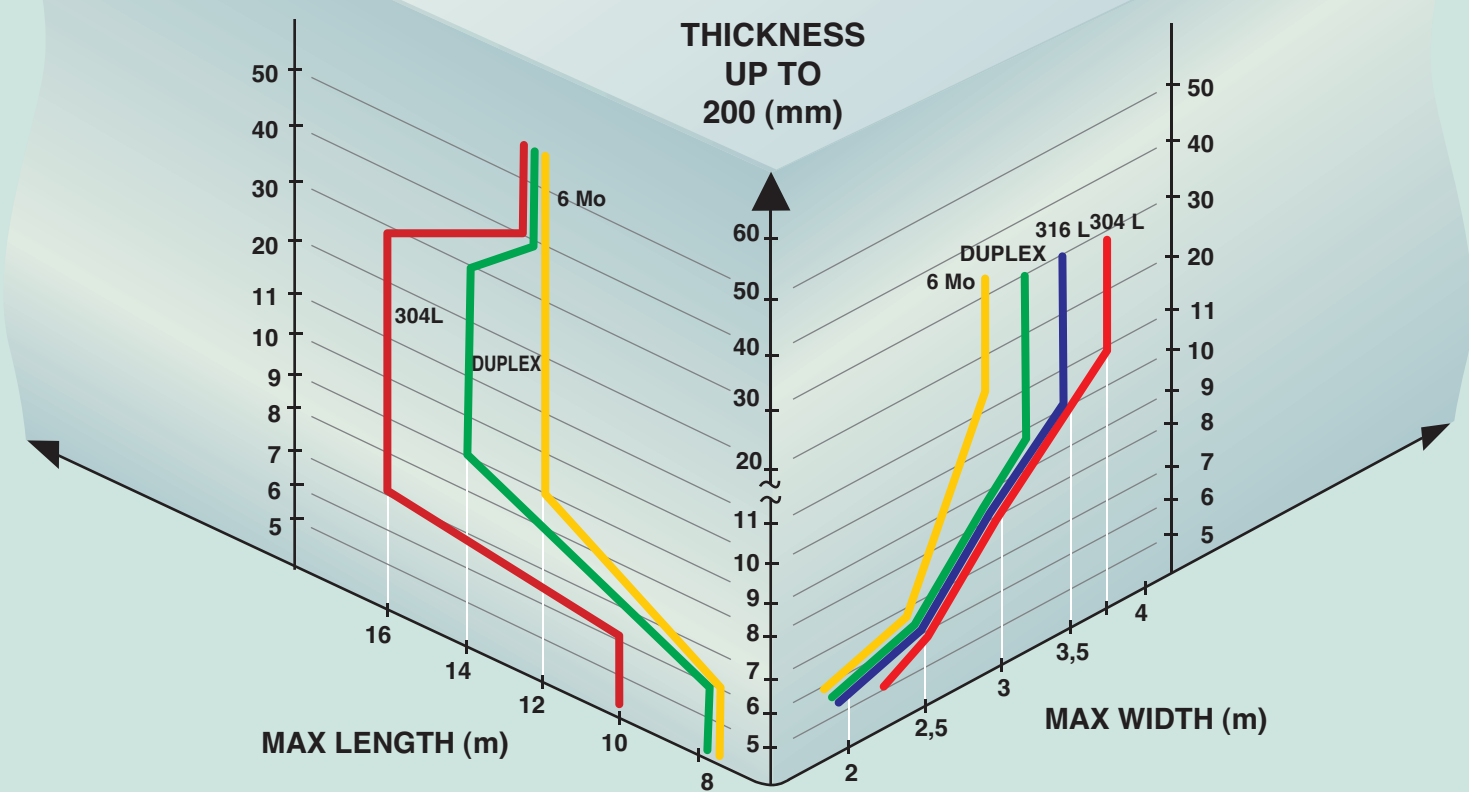
● Years of experience have shown the superiority of duplex stainless steels (UR 2205 or 2304) in kraft digesters :
 - excellent stress corrosion cracking resistance
 - hot wall corrosion resistance
 - abrasion resistance
 They allow huge thickness and weight savings compared to carbon steel (no corrosion allowance) or standard stainless steels (better mechanical properties).
 ● Clad plates and carbon steel plates are easily welded together to protect the critical parts of continuous digesters.

● Wear effects created by pulp impact against blow tank walls or strainer plates are suppressed by using duplex stainless plates (UR 2202 or 2205).

● Industeel offers corrosion resistant materials adapted to the different washing and bleaching stages, from the lean duplex UR 2202 to the high molybdenum UR 254.

● UR 2202 resists to the wet hot atmospheres of paper machines and will maintain the cleanliness of the paper without the need of painting, coating or lining carbon steel structures.

- Industeel offers tailor-made plates in economical sizes :
 - t : 5 – 200 mm
 - width up to 3800 mm
 - length up to 16 m.
- Industeel has been producing duplex and high molybdenum stainless plates for over 70 years.
- Benefit from our know-how in :
 - material selection
 - production
 - forming and welding assistance to fabricators.

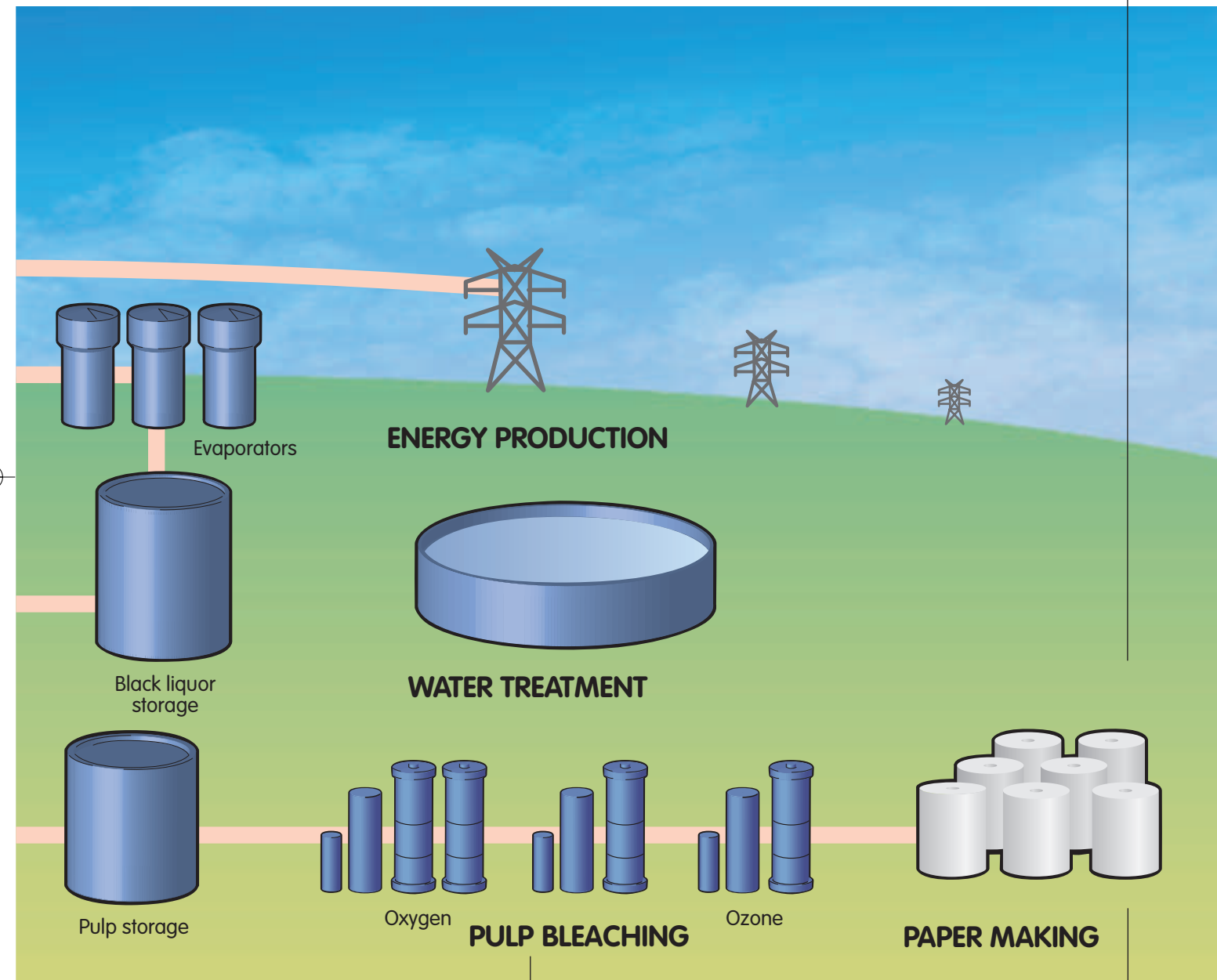


Max dimensions may not be obtained simultaneously. For additional information, please consult Industeel.

Type	ASTM	EUROPE	Industeel	Cr	Ni	Mo	N	PRE	0.2YS (MPa)	UTS (MPa)	A (%)
316L	316L	1.4404/4432	CLC 17-12-2L	17	11,5	2	-	24	225	520	45
2202	S32202	1.4062	UR 2202	22	2		0,2	24	450	650	30
2304	S32304	1.4362	UR 2304	23	4	0,3	0,1	24	400	600	25
2205	S31803/32205	1.4462	UR 2205	22	5,3	2,8	0,16	34	480	680	25
2507	S32750...	1.4410/4507	UR 2507...	25	7	3,5	0,25	> 40	550	760	25
904	N08904	1.4539	UR 904	20	25	4	0,13	35	245	550	40
6Mo	S31254	1.4547	UR 254	20	18	6	0,20	> 40	300	650	35
	316L	1.4432	FASTINOX 316L	17	11	2	-	24	225	520	45
17-4	630	1.4542	VIRGO 17.4 PH	17	4	Cu	Nb	17	615	840	14

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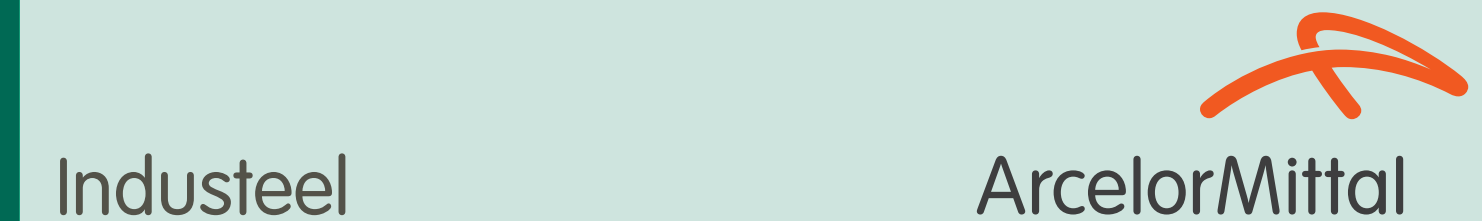
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