Tab.1 Dimensional range and Cost categories - Hot rolled tubes for carbon boilers made in Workshop no.2 CPE

ARTROM STEEL TUBES

WT	mm	2.3	2.6	2.77	2.87	2.9	3.2	3.6	3.91	4	4.5	5	5.5	6.02	6.3	7.1	7.62	8.0	8.56	8.8	9.5	10.0	11.0	11.13	12.5
	in	0.091	0.102	0.109	0.113	0.114	0.126	0.142	0.154	0.157	0.177	0.197	0.217	0.237	0.248	0.280	0.300	0.315	0.337	0.346	0.375	0.394	0.433	0.438	0.492
OD		Min -Max Length (m)																							
mm	in																								
21.3	0.839	6-12	6-12	6-12	6-12	6-12	**6-12**	**6-12**																	
26.7	1.051	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**																
26.9	1.059	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**																
28.0	1.102		6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**															
30.0	1.181		6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**															
31.8	1.252		6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**														
33.4	1.315		6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**														
33.7	1.327		6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**														
38.0	1.496		6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**													
42.2	1.661		6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**												
42.4	1.669		6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**												
48.3	1.902		6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**	**6-12**										
51.0	2.008		6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**									
54.0	2.126				6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**									
57.0	2.244				6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**6-12**									
60.3	2.374				6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	**8.2-12**	**6-12**	**6-12**	**6-12**					
63.5	2.500				6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	7.7-12	**6-12**	**6-12**	**6-12**	**6-12**				
70.0	2.756				6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	7.9-12	6-12	6-12	**6-12**	**6-12**				
73.0	2.874				7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7.6-12	7-13	7-13	7-13	**7-13**				
76.1	2.996				7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7.8-12	7-13	7-13	7-13	**6-12**				
82.5	3.248						7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7.8-12	7-13	7-13	7-13	6-12				
88.9	3.500						6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	6-12	7.2-12	6-12	6-12	6-12	6-12	6-12	**6-12**	**6-12**	
95.0	3.740						7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7.6-12	7-13	7-13	7-13	7-13	7-13	7-13	7-13	
101.6	4.000						7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7.7-12	7-13	7-13	7-13	7-13	7-13	6-12	6-12	
108.0	4.252						7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7.3-12	7-13	7-13	7-13	7-13	7-13	6-12	6-12	
114.3	4.500						7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7-13	7.1-12	7-13	7-13	7-13	7-13	6-12	5.5-11	5.5-11	
121.0	4.760														6-12	6-12	7.0-12	6-12	6-12	6-12	6-12	5.5-11	5.5-11	5.5-11	
127.0	5.000																			6-12	6-12	5.5-11	5.5-11	5.5-11	
134.0	5.276																				5.8-11.8	5.5-11.4	7-10	7-10	7-9

HP1 Category

HP2 Category

HP3 Category

HP4 Category

Polygonal aspect at ID beeing withim the tolerances (OD/WT<=8). Do not roll from steels with Rm> = 355 N / mm2 (E355, 20MnV6, 42CrMo4, etc)

This dimensional range can olso be aplied quenching and tempering