алюминий

aluminijs

aluminium

tubes
caurules
трубы

DIN 1712
1725
1746
1795
9107

		A99.5/99.8 AA1050A	AlMg3 AA5754	AlMgSi0.50.7 AA6060/63	AlMg4.5Mn AA5083	AlMgSi1 AA6082	AlCuMgPb AA2007			A99.5/99.8 AA1050A	AlMg3 AA5754	AlMgSi0.50.7 AA6060/63	AlMg4.5Mn AA5083	AlMgSi1 AA6082	AlCuMgPb AA2007
		F10	F18	F22	F28	F28/F32	F38			F10	F18	F22	F28	F28/F32	F38
mm	kg/m	H14	F	T6	F	T6	T6	mm	kg/m	H14	F	T6	F	T6	T6
5 x 1.0	0,04			•				25 x 1.0	0,22			•			
6 x 1.0	0,05			•				x 1.5	0,32			•			
8 x 1.0	0,06	•		•		•		x 2.0	0,41	•	•	•			•
x 1.5	0,09		•	•			•	x 2.5	0,5			•	•	•	
9 x 1.0	0,07			•				x 3.0	0,59	•		•	•	•	•
10 x 1.0	0,08			•				x 4.0	0,75			•		•	•
x 1.5	0,12			•			•	x 5.0	0,88		•	•		•	•
x 2.0	0,14			•				x 6.5	1,09					•	•
x 3.0	0,20			•				26 x 2.0	0,42			•		•	
12 x 1.0	0,10			•				x 3.0	0,61			•		•	
x 1.2	0,12			•				x 4.0	0,79						•
x 1.5	0,14			•				27 x 4.0	0,82						•
x 2.0	0,18			•			•	x 5.0	0,98					•	
x 3.0	0,24						•	28 x 1.0	0,23			•			•
13 x 1.1	0,11	•		•				x 1.5	0,36			•			
x 1.5	0,16			•				x 2.0	0,47			•			
x 2.0	0,10			•				x 2.5	0,57			•		•	
14 x 1.0	0,11			•				x 3.0	0,67			•			
x 2.0	0,21			•				x 4.0	0,86			•		•	•
x 2.5	0,26			•				x 5.0	1,03			•	•		•
x 3.0	0,30			•				x 6.0	1,29			•	•	•	
15 x 1.0	0,13		•					29 x 1.5	0,39			•			
x 1.5	0,18			•				30 x 1.0	0,25			•			
x 2.0	0,24			•				x 1.5	0,38			•			
x 2.5	0,28				•			x 2.0	0,50			•		•	•
x 3.0	0,33			•				x 2.5	0,61			•			
16 x 1.0	0,14			•				x 3.0	0,73	•	•	•	•	•	•
x 1.5	0,19			•				x 4.0	0,92	•		•		•	•
x 2.0	0,25			•				x 5.0	1,11		•	•	•	•	•
x 2.5	0,30			•	•			x 6.0	1,33					•	•
x 3.0	0,36			•		•		x 7.0	1,53						•
x 4.0	0,41						•	x 7.5	1,51			•			
x 5.0	0,55				•			x 8.0	1,57			•			
17 x 1.2	0,19		•					x10.0	1,81			•			•
18 x 1.0	0,16			•				31 x 3.0	0,72	•	•	•			
x 1.5	0,22		•	•			•	x 8.0	1,61						•
x 2.0	0,28			•			•	32 x 1.0	0,28			•			
x 3.0	0,34			•				x 1.5	0,41			•			
x 4.0	0,56		•				•	x 2.0	0,54			•			
19 x 1.0	0,16			•				x 2.5	0,69						•
x 1.5	0,23			•				x 3.0	0,78			•			•
20 x 1.0	0,17			•	•		•	x 4.0	1,00					•	
x 1.5	0,25			•		•		x 5.0	1,18			•			
x 2.0	0,33			•		•	•	x 6.0	1,41			•			•
x 2.5	0,39			•				x 7.5	1,64		•	•			•
x 3.0	0,45			•			•	33 x 1.5	0,42						
x 4.0	0,57			•			•	x 2.5	0,67					•	•
x 5.0	0,67			•		•	•	x 4.0	1,01			•			
x 6.0	0,79						•	34 x 3.0	0,83						•
21 x 1.5	0,26	•						x 4.0	1,13						•
x 3.0	0,48		•					35 x 1.0	0,30	•					•
22 x 1.0	0,20						•	x 1.5	0,44			•			
x 1.5	0,27			•				x 2.0	0,59			•	•		•
x 2.0	0,36			•				x 2.5	0,74			•			•
x 2.5	0,44			•			•	x 3.0	0,86			•	•		•
x 3.0	0,51	•					•	x 4.0	1,11			•	•		•
x 4.0	0,61						•	x 5.0	1,37			•			•
x 5.0	0,76			•		•	•	x 7.0	1,78						•
24 x 3.0	0,54						•	x 8.0	1,96				•		•
								x 10.0	2,13						•

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DIN	
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	1725
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	1795
	9107

mm	kg/m	Al99.5/99.8 AA1050A F10 H14	AlMg3 AA5754 F18 F	AlMgSiO.5/0.7 AA6060/63 F22 T6	AlMg4.5Mn AA5083 F28 F	AlMgSi1 AA6082 F28/F32 T6	AlCuMgPb AA2007 F38 T6	mm	kg/m	Al99.5/99.8 AA1050A F10 H14	AlMg3 AA5754 F18 F	AlMgSiO.5/0.7 AA6060/63 F22 T6	AlMg4.5Mn AA5083 F28 F	AlMgSi1 AA6082 F28/F32 T6	AlCuMgPb AA2007 F38 T6
36 x 1.0	0.31			●				50 x 1.0	0.43	●		●			
x 2.0	0.61			●				x 1.5	0.65			●		●	
x 3.0	0.88			●				x 2.0	0.85			●			●
x 4.0	1.15			●			●	x 2.5	1.06			●			●
x 5.0	1.38						●	x 3.0	1.28			●		●	●
x 7.0	1.82						●	x 3.5	1.45			●			
37 x 2.5	0.79			●				x 40	1.67		●	●	●	●	●
38 x 1.5	0.49			●				x 5.0	2.01	●	●	●	●	●	●
x 2.0	0.64			●				x 60	2 39			●		●	●
x 3.0	0.96	●	●	●				x 7.5	2.84					●	
x 4.0	1.21			●			●	x 8.0	3.05		●	●		●	●
x 5.0	1.55				●		●	x 10.0	3.62		●	●		●	●
x 8.0	2.15						●	x 12.0	4.07						●
x 10.0	2.54						●	x 15.0	4.67					●	●
39 x 3.0	0 96			●				52 x 1.5	0.64			●			
x 5.0	1.57			●				x 4.0	1.71						●
40 x 1.5	0.52			●		●	●	x 8.0	3.19						●
x 2.0	0.69			●				53x10.0	3.89						●
x 2.5	0.85			●		●	●	54 x 2.0	0.91			●			
x 3.0	099			●	●	●	●	55 x 2.5	1.17			●			●
x 4.0	1.28		●	●	●		●	x 50	2.27			●			●
x 5.0	1.57			●	●	●	●	x 6.0	2.72			●			●
x 6.0	1.85			●			●	x 8.0	3.41			●		●	●
x 8.0	2.32			●		●	●	x 10.0	4.08					●	●
x 10.0	2.72		●	●		●	●	x 12.0	4.61					●	
x 15.0	3.19						●	x 15.0	5.36					●	●
42 x 1.0	0.37			●				x 17.5	6.43						
x 2.0	0.71			●			●	56 x 3.0	1.42	●	●	●			
x 2.5	0.85						●	x 16.0	6.01						●
x 3.0	0.99			●		●		57 x 2.5	1.22			●			
x 5.0	1 65					●	●	x 3.5	1.66					●	
x 6.0	1.95			●			●	58 x 8.5	3.95						●
x 7.0	2.18						●	x 10.0	4.27						●
x 8.0	2.43						●	x 16.0	5.99						●
x 10.0	295						●	60 x 1.0	053	●		●			
43 x 1.5	0.58						●	x 1.5	0.78			●			●
45 x 1.0	039			●				x 2.0	1.03			●			
x 1.5	0.58			●				x 2.5	1.28			●			
x 2.0	0.78		●	●			●	x 3.0	1.55			●		●	
x 2.5	0.95			●			●	x 4.0	2.03			●			
x 3.0	1 12		●	●			●	x 5.0	2.45	●	●	●	●	●	●
x 4.0	1.49			●		●	●	x 6.0	2.94			●	●		●
x 5.0	1.79			●		●	●	x 7.5	3.45			●			
x 6.0	2.13			●			●	x 8.0	3.77			●		●	●
x 7.5	2.66					●		x 10 0	4.53		●	●		●	●
x 8.0	2.69						●	x 12.0	5.14					●	●
x 10.0	3.12			●			●	x 15.0	6.12			●			●
x 12.5	3.62					●	●	x 20.0	7.11					●	
x 15.0	398						●	61 x 2.0	1.05			●			
46 x 3.0	1.15	●	●					62 x 6.0	2.99			●			
x 6.0	2.14						●	x 7.0	3.62						●
47 x 2.0	0.81			●				x 13.0	5.69						●
x 5.5	2.35			●			●	63 x 2.5	1.35			●			
48 x 1.5	0.60			●				x 3.0	1.58	●		●			
x 2.5	107						●	x 4.0	2.10					●	
x 3.0	1.20			●				x 5.0	2.59		●				●
x 4.0	1.51			●			●	x 10.0	4.58			●			
x 8.0	3 01						●	x 12.0	5,44					●	
							●	x 15.0	6,42			●		●	
								x 16.0	6,71		●				●

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		Al99.5/99.8 AA1050A	AlMg3 AA5754	AlMgSiO.5 /0.7 AA6060/63	AlMg4.5Mn AA5083	AlMgSi1 AA6082	AlCuMgPb AA2007			Al99.5/99.8 AA1050A	AlMg3 AA5754	AlMgSiO.5/0.7 AA6060/63	AlMg4.5Mn AA5083	AlMgSi1 AA6082	AlCuMgPb AA2007
		F10	F18	F22	F28	F28/F32	F38			F10	F18	F22	F28	F28/F32	F38
mm	kg/m	H14	F	T6	F	T6	T6	mm	kg/m	H14	F	T6	F	T6	T6
64 x 12.0	5.86						●	x 6.0	4.34						●
65 x 1.0	0.57			●				x 10.0	6.80			●			●
x 2.0	1.12			●				x 15.0	9.88			●		●	●
x 2.5	1.39			●				x 20.0	12.54					●	●
x 3.5	1.92			●			●	86 x 3.0	2.22	●	●	●			
x 5.0	2.68			●			●	x 9.0				●			
x 6.0	3.32						●	88 x 2.5	1.72			●			
x 8.0	4.09						●	89 x 3.0	2.26		●				
x 10.0	4.99							x 4.0	3.02			●	●		
x 11.0	5.30						●	90 x 2.0	1.57		●	●			
x 12.0	5.41						●	x 2.5	1.97			●			
x 15.0	6.39			●				x 3.0	2.31			●			
70 x 1.5	0.92			●				x 5.0	3.85						
x 2.0	1.21			●				x 6.0	4.62			●			
x 2.5	1 62			●				x 8.0	567			●			●
x 3.0	1.80			●			●	x 10.0	7.25			●		●	●
x 4.0	2.39			●		●		x 12.0	7.96						●
x 5.0	290		●	●	●			x 15.0	10.20			●			●
x 6.0	3.75			●		●	●	x 20.0	12.93				●	●	●
x 7.0	4.00						●	x 25.0	15.16					●	
x 8.0	4.50			●	●	●	●	95 x 2.5	1.98			●			
x 10.0	5.44					●	●	x 3.5	2.85			●			
x 12.0	7 83					●	●	x 5.0	3.83						●
x 15.0	7 48			●		●	●	x 7.5	5.83			●			●
x 16.0	8.10					●		x 10.0	7.24					●	●
x 20.0	9.12					●	●	x 11.0	8.22					●	
71 x 3.0	1.82		●	●			●	x 15.0	10.98						●
75 x 2.5	162			●				x 20.0	13.85				●	●	●
x 5.0	312							96 x 3.0	2.49			●			
x 6.0	3.70				●		●	x 13.0	9.45				●		
x 7.0	4.25			●				100 x 2.0	1.75			●	●		
x 7.5	4.62						●	x 2.5	2.16		●	●			
x 8.0	4.78						●	x 3.0	2.59			●		●	
x 10.0	5.89			●			●	x 4.0	3.42		●	●			
x 15.0	8.83			●			●	x 5.0	4.31	●	●	●	●		●
x 20.0	10.21						●	x 6.0	5.11			●		●	●
76 x 2.5	1.64			●				x 7.5	6.38			●			
x 3.0	1.95							x 8.0	6.57			●	●		
x 4.0	2.60			●	●			x 10.0	8.16			●	●	●	●
x 5.0	3.16			●				x 12.0	9.43			●			
x 9.0	5.66						●	x 12.5	9.82					●	
80 x 1.5	1.05		●	●				x 15.0	11.55					●	●
x 2.0	1.39		●	●				x 16.0	12.32			●			
x 2.5	1.76		●	●				x 20.0	14.78			●		●	●
x 3.0	206			●			●	x 25.0	16.73			●		●	●
x 4.0	2.39			●				x 30.0	19.40			●			●
x 5.0	3.40	●		●		●		102 x 8 0	6.82						●
x 6.0	4.03			●		●	●	105 x 2.5	2.36		●	●			
x 7.0	4.81						●	x 6.0	5.66		●	●			
x 8.0	5.22			●	●	●	●	x 8.0	7.16						●
x 10.0	6.35	●		●		●	●	x 10.0	8.45			●			
x 12.0	8.05						●	x 12.5	10.29			●			
x 12.5	8.68					●		x 15.0	12.02			●			
x 15.0	8.84			●	●	●	●	106 x 3.0	2.73	●	●	●	●		
x 20.0	10.71					●	●	x 8.0	6.98			●			
x 25.0	12.27						●	108 x 2.5	1.91			●		●	
84 x 2.0	1.46			●				x 30	2.81		●	●			
x 4.0	2.92				●			X 4.0	3.71	●	●	●			
85 x 2.5	1.81			●	●										
x 5.0	3.56			●			●								

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mm	kg/m	Al99.5/99.8 AA1050A F10 H14	AlMg3 AA5754 F18 F	AlMgSiO.5/0.7 AA6060/63 F22 T6	AlMg4.5Mn AA5083 F28 F	AlMgSi1 AA6082 F28/F32 T6	AlCuMgPb AA2007 F38 T6	mm	kg/m	Al99.5/99.8 AA1050A F10 H14	AlMg3 AA5754 F18 F	AlMgSiO.5/0.7 AA6060/63 F22 T6	AlMg4.5Mn AA5083 F28 F	AlMgSi1 AA6082 F28/F32 T6	AlCuMgPb AA2007 F38 T6
110 x 2.0	1,93			•				140 x 1.8	2,22			•			
x 2.5	2,52			•				x 3.0	3,65					•	
x 3.0	2,86					•		x 4.0	4,85			•			
x 5.0	4,76	•	•	•	•	•	•	x 5.0	6,01			•	•		
x 8.0	7,40			•				x 7.0	8,44			•			•
x 8.5	7,68			•				x 8.0	9,98			•			
x 10.0	8,93			•		•	•	x 9.0	11,22			•			
x 15.0	12,92			•		•	•	x 10.0	11,96			•	•	•	•
x 20.0	17,86		•	•			•	x 12.0	13,94			•		•	
x 25.0	18,19		•			•	•	x 15.0	17,94			•		•	•
x 30.0	22,15					•	•	x 20.0	22,17			•		•	•
112 x 15.0	1,29			•				x 25.0	25,66			•		•	•
144 x 3.0	2,97	•		•				x 30.0	29,45			•			•
x 5.0	4,85	•						143 x 3.0	3,74			•			
x 10.0	9,25			•				144 x 6.0	7,23					•	
115 x 5.0	4,90			•				150 x 2.5	3,67			•			
x 10.0	9,81			•				x 3.0	3,93			•			
x 15.0	14,70			•				x 5.0	6,57			•			•
120 x 2.0	2,11			•				x 6.5	8,24			•			
x 2.5	2,57		•					x 7.5	9,54			•			
x 3.0	3,13			•				x 8.0	9,61					•	
x 4.0	4,14			•				x 10.0	12,70			•		•	•
x 5.0	5,21			•			•	x 12.0	15,47						•
x 6.0	6,25			•				x 15.0	18,35			•		•	•
x 8.0	7,98			•				x 20.0	25,40			•		•	•
x 10.0	9,82			•		•	•	x 25.0	31,25					•	•
x 12.5	12,5					•		x 30.0	38,10			•		•	•
x 15.0	14,73			•		•	•	156 x 3.0	4,09	•	•	•		•	
x 20.0	17,12			•		•	•	157 x 3.5	11,22		•				
x 25.0	21,20			•			•	159 x 3.0	4,11		•				
x 30.0	34,81						•	x 4.5	6,08			•			
125 x 2.0	2,20			•				160 x 3.0	4,12		•	•			•
x 3.0	3,27			•				x 5.0	7,03			•			
x 3.5	3,68			•				x 6.0	8,25			•			
x 4.0	4,29			•				x 8.0	10,85			•	•		
x 5.0	5,36			•				x 10.0	13,60	•		•	•	•	•
x 6.0	6,43			•				x 12.0	27,61			•			•
x 8.0	8,35			•				x 15.0	19,36			•		•	•
x 10.0	10,43			•		•		x 20.0	24,99			•		•	•
x 12.5	12,09			•		•		x 30.0	34,81			•			•
x 15.0	15,64			•			•	x 35.0	39,03					•	
x 20.0	20,86			•			•	166 x 20.0	25,96					•	
130 x 3.0	3,92			•				168 x 4.0	5,75	•	•				
x 4.0	4,49			•				x 4.5	6,54	•					
x 5.0	5,67			•		•	•	170 x 5.0	7,78					•	
x 7.0	7,66			•				x 10.0	14,51			•		•	•
x 10.0	10,7					•	•	x 12.5	17,74			•			
x 15.0	15,39			•		•	•	x 15.0	20,75			•		•	•
x 20.0	18,9			•		•	•	x 20.0	26,77			•		•	•
x 25.0	22,10			•			•	x 30.0	37,47						•
x 30.0	26,77			•		•	•	x 40.0	46,39			•			
131 x 3.0	3,46	•	•	•				175 x 5.0	7,64			•			
133 x 3.0	3,47			•				x 35.0	42,95				•		
x 4.0	4,61	•		•				180 x 5.0	7,16			•			
135 x 5.0	5,79			•				x 6.0	9,32			•		•	•
x 10.0	11,13			•				x 10.0	15,11			•	•		•
x 20.0	20,47			•		•		x 15.0	22,09			•			•
136 x 3.0	3,54			•		•		x 20.0	28,56			•		•	•
138 x 3.0	3,60			•				x 30.0	39,92					•	
								x 40.0	52,21					•	

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aluminium

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трубы

DIN 1712
1725
1746
1795
9107

mm	kg/m	Al99.5/99.8 AA1050A F10 H14	AlMg3 AA5754 F18 F	AlMgSiO.5/0.7 AA6060/63 F22 T6	AlMg4.5Mn AA5083 F28 F	AlMgSi1 AA6082 F28/F32 T6	AlCuMgPb AA2007 F38 T6	mm	kg/m	Al99.5/99.8 AA1050A F10 H14	AlMg3 AA5754 F18 F	AlMgSiO.5/0.7 AA6060/63 F22 T6	AlMg4.5Mn AA5083 F28 F	AlMgSi1 AA6082 F28/F32 T6	AlCuMgPb AA2007 F38 T6
185 x 10.0	15.61			•				260 x 5.0	13.12		•	•		•	
190 x 3.5	7.03			•				x 10.0	22.26					•	
x 5.0	8.67					•		x 12.0	26.49			•		•	
x 6.0	9.85			•				x 15.0	35.40					•	
x 10.0	16.07			•		•	•	x 20.0	47.20					•	
x 15.0	24.65						•	x 30.0	61.35					•	
x 20.0	30.22					•	•	280 x 10.0	24.09					•	
194 x 5.0	8.25					•		x 15.0	35.40					•	
200 x 4.0	7.08					•		x 30.0	63.60					•	
x 5.0	8.85 ,			•		•		285 x 20.0	45.90					•	
x 6.0	9.87			•		•		300 x 10.0	25.87			•			
x 8.0	14.11			•		•		x 16.0	40.54			•			
x 10.0	17.22 :			•	•	•	•	308 x 4.0	10.85			•			
x 12.5	20.92					•	•	310 x 20.0	51.74			•			
x 15.0	23.53					•		320 x 10.0	27.65			•			
x 20.0	30.52					•		330 x 10.0	28.13					•	
x 25.0	39.05					•		350 x 10.0	30.33			•			
x 30.0	43.24					•	•	365 x 25.5	77.24			•			
x 40.0	54.26					•		380 x 10.0	33.01			•			
205 x 12.0	20.67					•		400 x 4.0	14.10				•		
206 x 3.0	5.31		•			•		x 16.0	54.81			•			
208 x 4.0	7.28	•	•	•											
210 x 5.0	9.15			•		•									
x 6.0	10 92					•									
x 10.0	16.96			•		•									
x 15.0	25.58					•									
x 20.0	33.92			•		•									
219 x 4.0	7.68		•	•											
x 5.0	9.38	•	•		•										
220 x 5.0	9.59			•											
x 8.0	15.14	•				•									
x 10.0	18.92	•		•		•									
x 15.0	26.07					•									
x 20.0	35.00					•									
x 25.0	42.50					•									
x 30.0	49.90					•									
230 x 5.0	9.53			•		•									
x 6.0	11.94	•													
x 10.0	18,66			•		•									
x 15.0	27.34					•									
x 16.0	30.55			•											
x 20.0	35.70					•									
x 30.0	53.02					•									
240 x 5.0	10.90			•		•									
x 10.0	19.63				•	•									
x 15.0	30.04					•									
x 20.0	39.27					•	•								
x 30.0	56.21					•									
245 x 10.0	20.97				•										
250 x 5.0	10.70			•											
x 6.0	13.06			•											
x 8.0	16.42					•									
x 10.0	20.36					•									
x 15.0	29.88				•	•									
x 20.0	39.00														
x 50.0	88.90					•									
258 x 4.0	8.87			•											