

TREAD PLATE



PROPERTIES	304	316	3Cr12
Density kg/m ³ (approximate)	7900	8000	7700
Modulus of Elasticity (E) Tensile Gpa	195	195	207
Thermal Conductivity @ 100°C w/m°C	15.7	14.5	32.0
Coefficient Thermal Expansion @ 100°C	17.0	16.5	10.0
Recommended Max Service temp. °C	925	925	600
Tensile Strength Mpa	485	485	460
0.2% Proof Strength Mpa	170	170	300
Elongation % in 50mm	40	40	20
Hardness, Brinell	200	200	220

COMPARATIVE TEST RESULTS								
Pattern	Material	Finish	Co-efficient of Friction (u)					
			Wellington Boot			Shoe (leather Sole)		
			Dry	Wet	Oiled	Dry	Wet	Oiled
	3Cr12	Nº 1	0.55	0.49	0.43	0.67	0.62	0.53
Checker Plate	Mild Steel	Galvanised	0.51	0.36	0.30	0.48	0.44	0.20
Checker Plate	Mild Steel	Normal	0.49	0.34	0.26	0.44	0.44	0.17
Std. 5 Rib	Aluminium	Normal	0.43	0.40	0.34	0.38	0.38	0.17

SIZES					SHEET	
Nominal Thickness mm	Overall Height mm	Approx. Mass kg/m ²	Std. Size m	Approx. Mass kg/std. size	Max. Width mm	Max. Length mm
1.6	3.2	12.8	2.5 x 1.25	40.0	1250	3000
2.0	3.6	16.0	2.5 x 1.25	50.0	1250	3000
2.5	4.1	20.0	2.5 x 1.25	62.5	1250	3000
3.0	4.6	24.0	2.5 x 1.25	75.0	1250	6000
4.0	5.6	32.0	2.5 x 1.25	100.0	1250	6000
4.5	6.1	36.0	2.5 x 1.25	112.5	1250	6000

Note: All figures to be taken as nominal and should not be used as guaranteed values.