

TERNE COATED COMPARATIVE MECHANICAL PROPERTIES

Independence Grey/TCS II Satin Properties	
Z-T Alloy™ Coating Thickness	Min. 12.7 Micron / side
Stainless Steel Austenitic Type 304 to BS EN 10088 - 1995	Base Material
Weight (0.40mm)	3.27 kg's/m ²
Proof Stress	250 N/mm ²
Tensile Strength	550 N/mm ²
Elongation	50%
Coefficient of linear thermal expansion	0.011mm / metre / °C
Thermal Conductivity	16W/mK
Melting Point	1430°C

Weight Kg / m2	
Independence Grey/TCS II Satin (0.40mm)	3.27 kgs
Copper (0.70mm) Standing Seam	6.417 kgs
Built -Up, 4 Ply - No Gravel (Approximation)	8.54 kgs
Wood Shingles (Approximation)	9.77 kgs
Galvanised Iron (0.95mm BMT) Corrugated	10.99 kgs
Slate (Approximation)	34.18 kgs
Spanish Tile (Approximation)	41.5 kgs
Concrete Tile (Approximation)	87.9 kgs

Coefficient of Linear Thermal Expansion (mm per metre per °C)	
Wood (Approximate)	0.005mm / metre / °C
Slate	0.007mm / metre / °C
Zincalume	0.009mm / metre / °C
Independence Grey/TCS II Satin	0.011mm / metre / °C
Copper	0.011mm / metre / °C
Zinc	0.022mm / metre / °C
Aluminium	0.016mm / metre / °C

Tensile Strength N/mm ²	
Independence Grey/TCS II Satin	550
Half Hard Temper Copper	260
Titanium Zinc across Grain	240
Titanium Zinc with Grain	180
Grade 5052 Aluminium - H34	260