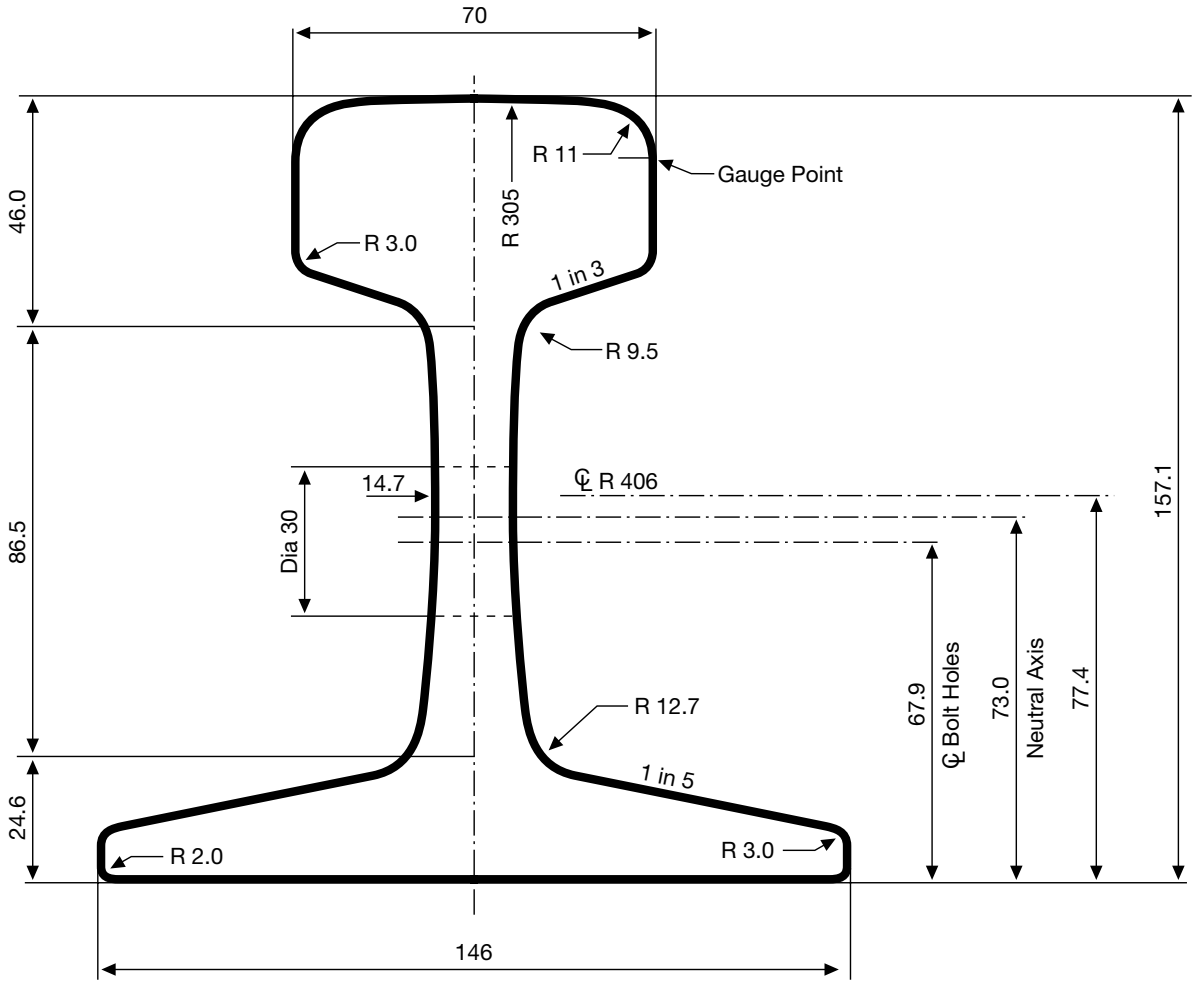
EMRAILS

THE AUSTRALIAN RAIL STOCKIST

53 KG RAIL

RT 25



MECHANICAL PROPERTIES			
Area of Head	2721 mm^2	**Horizontal Axis**	
Area of Web	1520 mm^2	Second Moment of Area	22.8×10^6 mm^4
Area of Foot	2522 mm^2	Section Modulus Head	271.6×10^3 mm^3
Total Area	6763 mm^2	Section Modulus Foot	312.8×10^3 mm^3
Standard Lengths	**12.19 m & 13.72 m**	**Vertical Axis**	
Calculated Mass	**53.0 kg/m**	Second Moment of Area	4.54×10^6 mm^4

TYPICAL MECHANICAL PROPERTIES (Minimum)			
0.2% Proof Stress MPa	**Tensile Strength MPa**	**% Elongation Gauge length = 5.65 $\sqrt{S_0}$**	**Surface Hardness H.B.**
420	880	8	260

CHEMICAL COMPOSITION (%) Ladle Analysis				
Carbon	**Silicon**	**Manganese**	**Phosphorus**	**Sulphur**
0.65 - 0.82	0.15 - 0.58	0.70 - 1.25	0.025 max	0.025 max