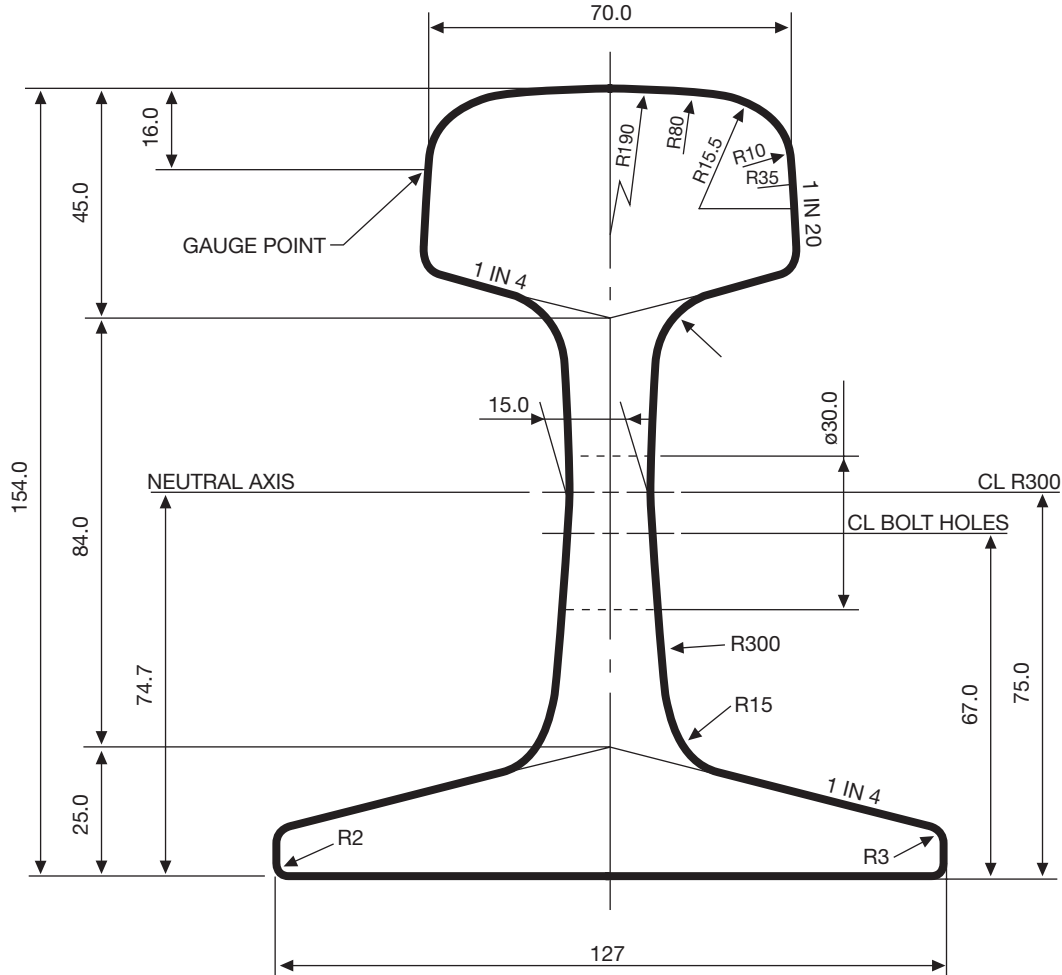


# 50 KG RAIL

**RT 23**


## MECHANICAL PROPERTIES

Area of Head	2710 mm <sup>2</sup>	<b>Horizontal Axis</b>	
Area of Web	1578 mm <sup>2</sup>	Second Moment of Area	20.1 x 10 <sup>6</sup> mm <sup>4</sup>
Area of Foot	2163 mm <sup>2</sup>	Section Modulus Head	253.5 x 10 <sup>3</sup> mm <sup>3</sup>
Total Area	6451 mm <sup>2</sup>	Section Modulus Foot	269.1 x 10 <sup>3</sup> mm <sup>3</sup>
<b>Standard Lengths</b>	<b>12.19 m &amp; 13.72 m</b>	<b>Vertical Axis</b>	
<b>Calculated Mass</b>	<b>50.6 kg/m</b>	Second Moment of Area	3.26 x 10 <sup>6</sup> mm <sup>4</sup>

## TYPICAL MECHANICAL PROPERTIES (Minimum)

0.2% Proof Stress MPa	Tensile Strength MPa	% Elongation Gauge length = 5.65 √S <sub>0</sub>	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