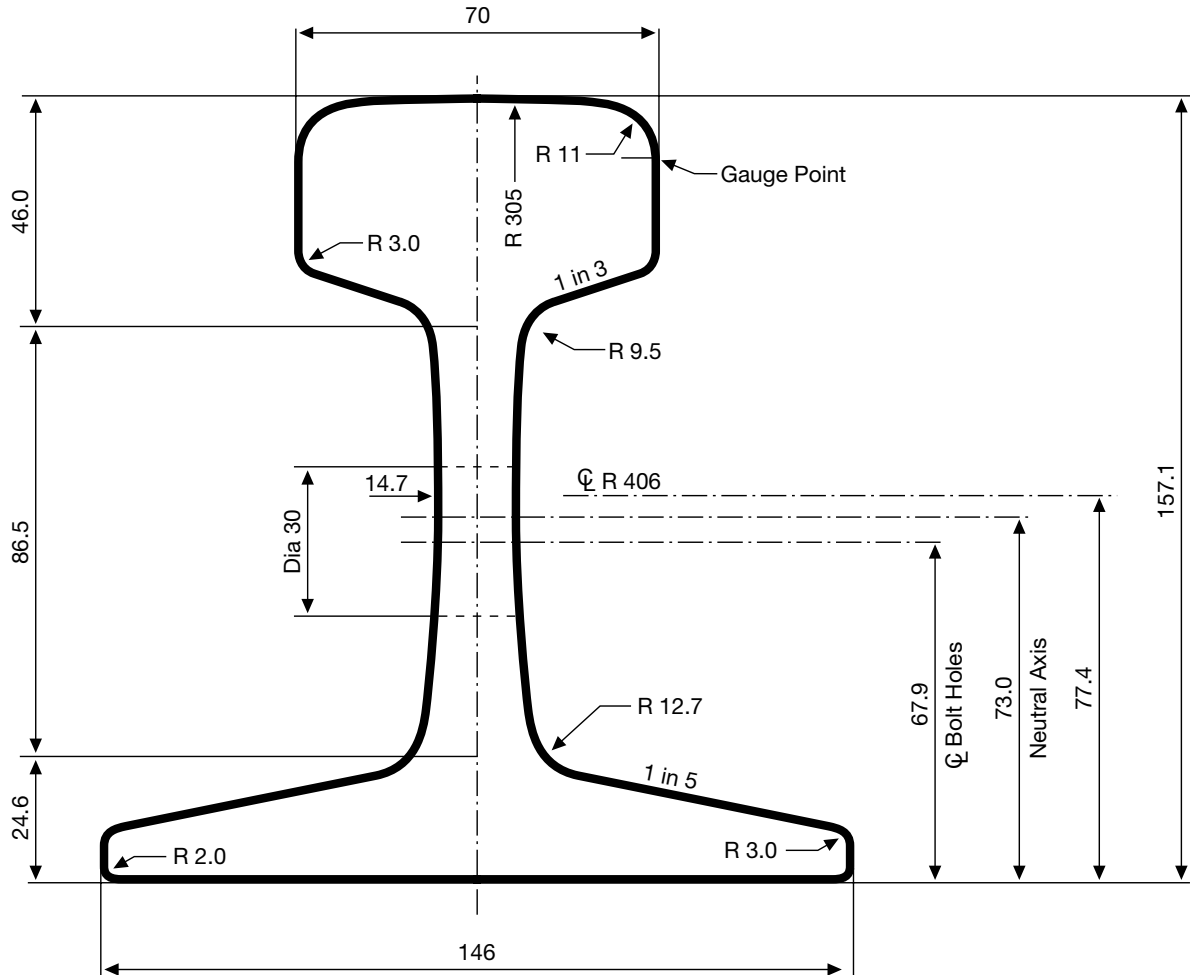




53 KG HEAD HARDENED RAIL

RT 25 HH



MECHANICAL PROPERTIES

Area of Head	2721 mm ²	Horizontal Axis	
Area of Web	1520 mm ²	Second Moment of Area	22.8 x 10 ⁶ mm ⁴
Area of Foot	2522 mm ²	Section Modulus Head	271.6 x 10 ³ mm ³
Total Area	6763 mm ²	Section Modulus Foot	312.8 x 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 x 10 ⁶ mm ⁴

TYPICAL MECHANICAL PROPERTIES (Minimum)

0.2 % Proof Stress MPa 420	Tensile Strength MPa 880	% Elongation Gauge length = 5.65 √S ₀ 8	Surface Hardness H.B. 260
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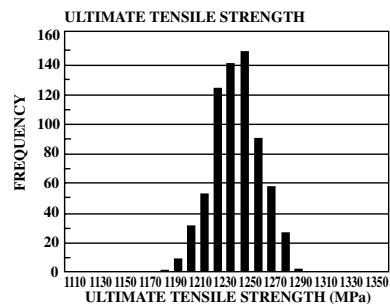
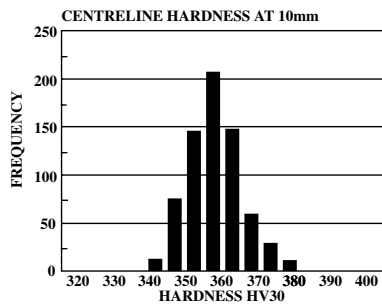
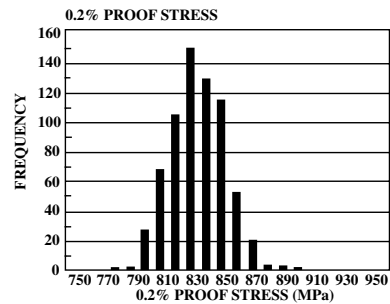
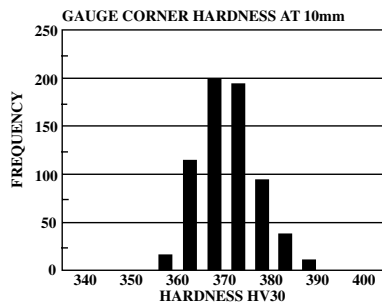
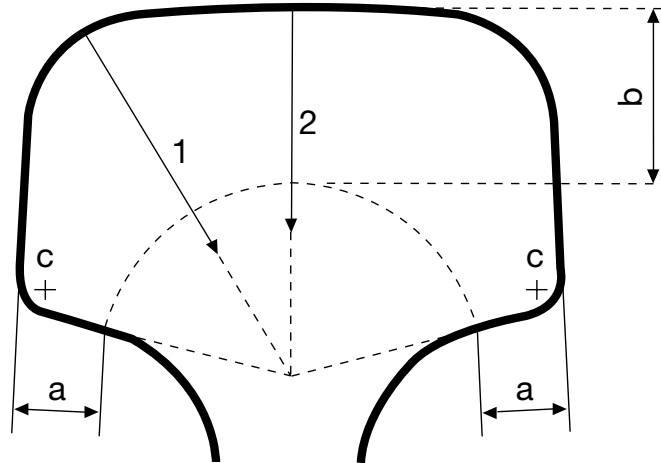
CHEMICAL COMPOSITION (%) Ladle Analysis

Carbon 0.65 - 0.82	Silicon 0.15 - 0.58	Manganese 0.70 - 1.25	Phosphorus 0.025 max	Sulphur 0.025 max
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53 KG HEAD HARDENED RAIL

RT 23 HH



DEPTH OF HEAT TREATMENT			HEAD HARDNESS MINIMUM	
Dimensions (mm)	a	b	Surface Hardness	340 HB
	15 min	20 min	Rails are manufactured from fully killed steel.	
	23 max	40 max		

HARDNESS IN HEAT AFFECTED ZONES			
HV30	Position C	Traverse 1	Traverse 2
At any point	-	430 max	430 max
10 mm from surface	-	360 min	340 min
2 mm below surface	430 max	-	-