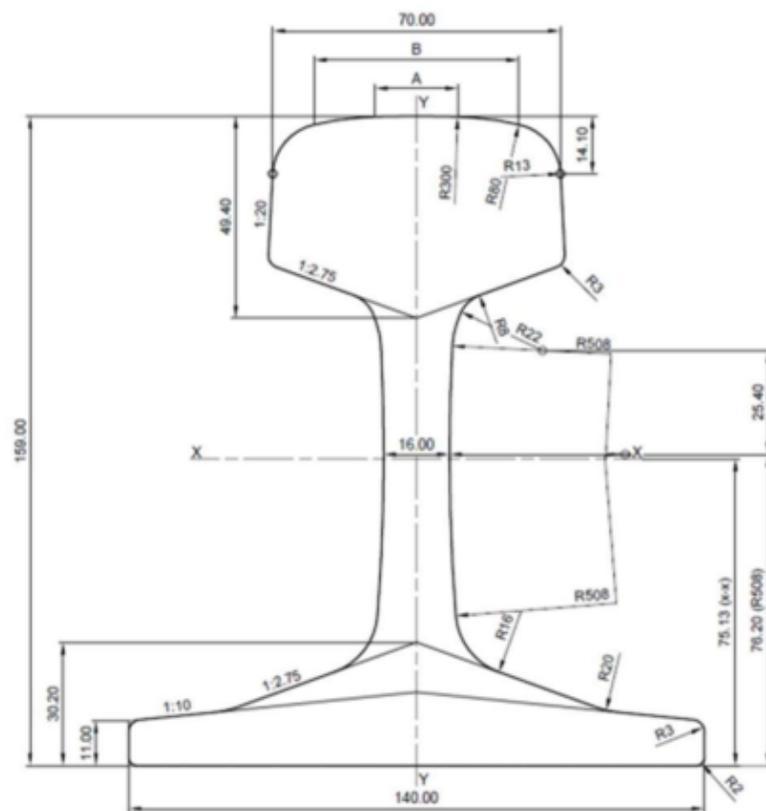


## Gambar Rancangan Pekerjaan

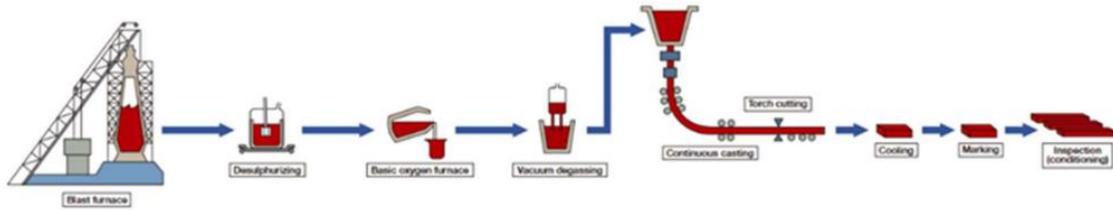
Gambar Rancangan Pekerjaan PBJ “Pekerjaan Muat Bongkar Angkut Rel Ke Gudang Persediaan PT Kereta Api Indonesia (Persero)”, sebagai berikut :

### Profil Penampang dan Dimensi



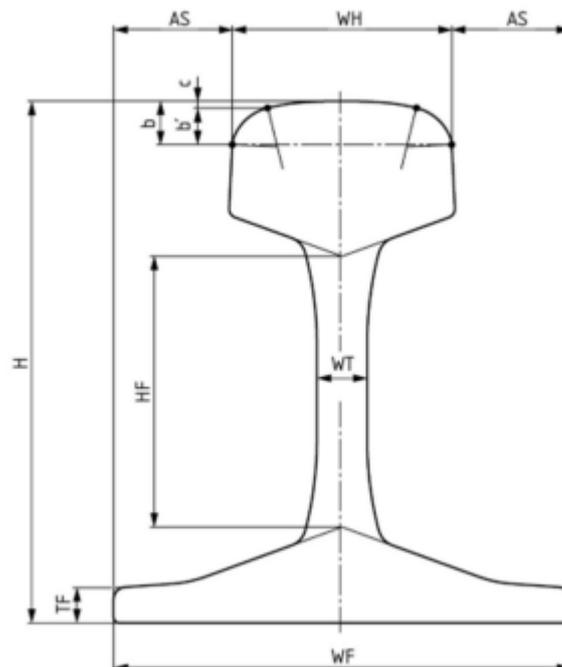
Gambar 1 – Penampang Rel 54E1





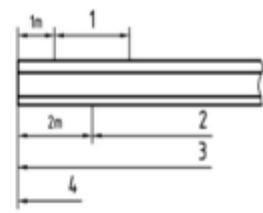
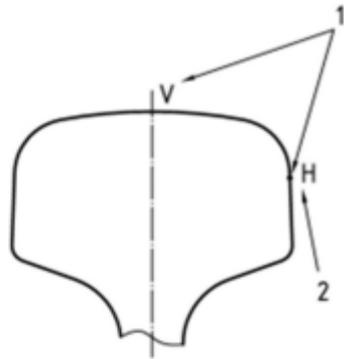
Gambar 3 - Proses manufaktur

*Titik referensi (Lihat Gambar 3)		Kelas profil (toleransi dalam mm)	
Parameter	Simbol	X	
Tinggi rel <sup>a</sup>	<165 mm	*H	± 0,5
	≥ 165 mm		± 0,6
Profil mahkota rel	Kelas Kelurusan A	*C	+ 0,6 - 0,3
Lebar kepala rel		*WH	± 0,5
Asimetri rel		*As	± 1,2
Tinggi pelat sambung	< 165 mm	*HF	± 0,5
	≥ 165 mm		± 0,6
Tebal web rel		*WT	+ 1,0 - 0,5
Lebar kaki rel		*WF	± 1,0
Tebal kaki rel		*TF	+ 0,75
			- 0,5
Kecekungan dasar kaki rel			0,3 max



Gambar 4 - Toleransi dimensi rel

Toleransi kelurusan, kerataan permukaan dan puntiran



**Key**

1. *V and H : Location of flatness measurements*
2. *the position of H is normally 5 mm to 10 mm below the gauge corner on the side of the head*

**Key**

1. *overlap*
2. *body*
3. *whole rail*
4. *end "E"*

Location / Dimensional properties		Class B		Class A		
		d	L	d	L	
BODY <sup>a</sup>	Vertical flatness V	≤ 0,4 mm	3 m <sup>c</sup>	≤ 0,3 mm	3 m	
	Horizontal flatness H	≤ 0,6 mm	1,5 m <sup>c</sup>	≤ 0,45 mm	1,5 m <sup>c</sup>	
ENDS <sup>a</sup>	End "E"	1,5 m		2 m		
	Vertical Straightness	≤ 0,5 mm	1,5 m	≤ 0,4 mm	2 m	
		and		and		
Horizontal straightness	≤ 0,7 mm	1,5 m	≤ 0,6 mm	2 m		
				and		
		e ≤ 0,2 mm		e ≤ 0,2 mm		<i>If e &gt; 0,2 mm</i>

Location / Dimensional properties		Class B		Class A		
		d	L	d	L	
OVERLAP <sup>a</sup>	Length of overlap	1,5 m		2 m		
	Vertical flatness V	≤ 0,4 mm	1,5 m <sup>c</sup>	≤ 0,3 mm	2 m <sup>c</sup>	
	Horizontal flatness H	≤ 0,6 mm	1,5 m <sup>c</sup>	≤ 0,6 mm	2 m <sup>c</sup>	