Linear Guideways
WE series

1.4.10 Dimensions of the WE rail

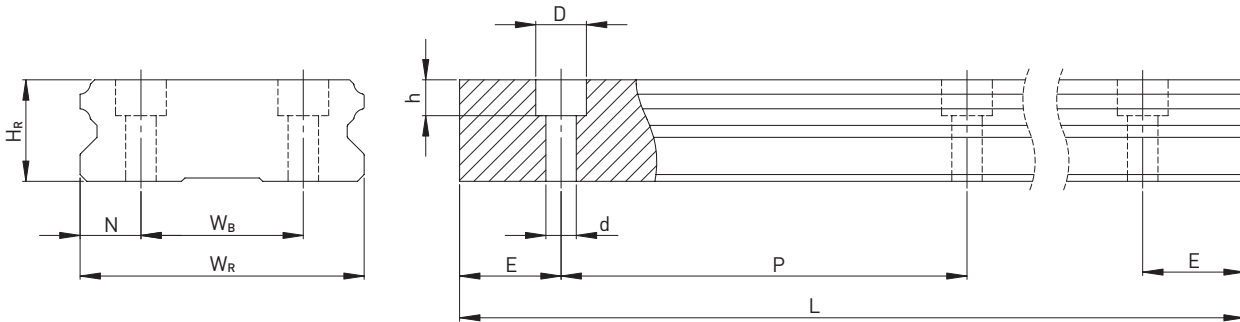#### 1.4.10.1 Dimensions WER_R

Table 1.49 **Dimensions of the rail WER_R**

Series Size	Screws for rail [mm]	Dimensions of the rail [mm]							Max. length [mm]	$E_{1/2}$ min [mm]	$E_{1/2}$ max [mm]	Mass [kg/m]
		W_R	W_B	H_R	D	h	d	P				
WER17R	M4 × 12	33	18	9,3	7,5	5,3	4,5	40,0	4000	6	34	2,20
WER21R	M4 × 12	37	22	11,0	7,5	5,3	4,5	50,0	4000	6	44	3,00
WER27R	M4 × 16	42	24	15,0	7,5	5,3	4,5	60,0	4000	6	54	4,70
WER35R	M6 × 20	69	40	19,0	11,0	9,0	7,0	80,0	4000	8	72	9,70

Note:
1. The tolerance for E is +0,5 to −1 mm for standard, for joint connections 0 to −0.3 mm
2. If no information is provided on the $E_{1/2}$ dimensions, the maximum number of fixing holes is determined taking into account $E_{1/2}$ min
3. The rails are shortened to the desired length. If no information on the $E_{1/2}$ dimensions is provided, then the rails are manufactured symmetrically.

1.4.10.2 Calculation of the length of rails
HIWIN offers customer-specific lengths. To ensure that the ends of the rails for non-standard lengths are stable, value E must not exceed half the distance between the fixing holes (P). In addition, value $E_{1/2}$ must not be less than $E_{1/2}$ min and must not exceed $E_{1/2}$ max to prevent breakage of the fixing hole.
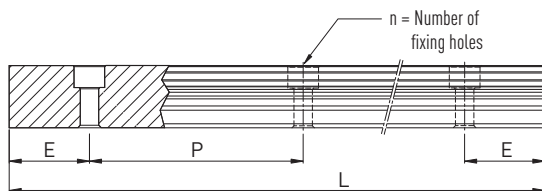
$$L = (n-1) \times P + 2 \times E$$

L: Total rail length [mm]
n: Number of fixing holes
P: Distance between two fixing holes [mm]
E: Distance from the center of the last fixing hole to the end of the rail [mm]