

RUNWAY GIRDERS AS SINGLE-RAIL CRANE RUNWAYS..

Calculation basis DIN 4132 and DIN 15018 B2 H2 (vH = 10 m/min.)

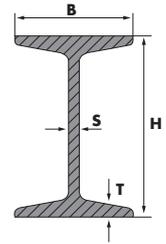
including underflange deflection (beam material St 37) Deflection $f < 1/500$ of the span.

INP-Profiles DIN 1025 BL 1

INP Nr.	Dimensions in mm				Weight kg/m
	H	B	S	T	
80	80	42	3.9	5.9	6
100	100	50	4.5	6.8	8.3
120	120	58	5.1	7.7	11.1
140	140	66	5.7	8.6	14.3
160	160	74	6.3	9.5	17.9
180	180	82	6.9	10.4	21.9
200	200	90	7.5	11.3	26.2
220	220	98	8.1	12.2	31.1
240	240	106	8.7	13.1	36.2
260	260	113	9.4	14.1	41.9
280	280	119	10.1	15.2	48
300	300	125	10.8	16.2	54.2
320	320	131	11.5	17.3	61
340	340	137	12.2	18.3	68
360	360	143	13	19.5	76.1
380	380	149	13.7	20.5	84
400	400	155	14.4	21.6	92.4
450	450	170	16.2	24.3	115
500	500	185	18	27	141
550	550	200	19	30	166

Pro-file	Capacity in kg									
	500	1,000	1,600	2,000	2,500	3,200	5,000	6,300	8,000	10,000
80										
100	2.2									
120	3.1	1.4								
140	4.1	2.4	1							
160	5.1	3.7	1.8	1						
180	6.3	4.6	2.8	1.8	1.1					
200	7.5	5.6	4	2.8	1.8	1				
220	8.7	6.6	5.2	4	2.8	1.7				
240	9.9	7.6	6.2	5.4	3.9	2.7				
260	11.1	8.7	7.2	6.5	5.2	3.6	1.2			
280	12.3	9.8	8	7.4	6.7	4.8	2			
300	13.4	10.9	9.1	8.3	7.5	5.9	2.9	1.7		
320	14.5	12	10.1	9.3	8.4	7.3	3.9	2.4	1.2	
340	15.6	13.1	11.1	10.2	9.3	8.2	5	3.3	1.8	
360	16.6	14.2	12.2	11.3	10.3	9.2	6.3	4.3	2.7	1.4
380		15.2	13.2	12.3	11.3	10.2	7.5	5.4	3.5	2
400		16.3	14.3	13.3	12.2	11.1	8.8	6.6	4.5	2.8
450			16.8	15.8	14.7	13.5	11.3	9.7	7.2	5
500					17.1	15.9	13.5	12.2	10.2	7.6
550							15.7	14.4	13.1	10.6

Span data in m

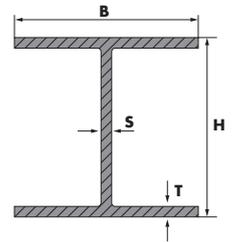


HEB-Profiles DIN 1025 BL 2

INP Nr.	Dimensions in mm				Weight kg/m
	H	B	S	T	
100	100	100	6	10	20.4
120	120	120	6.5	11	26.7
140	140	140	7	12	33.7
160	160	160	8	13	42.6
180	180	180	8.5	14	51.2
200	200	200	9	15	61.3
220	220	220	9.5	16	71.5
240	240	240	10	17	83.2
260	260	260	10	17.5	93
280	280	280	10.5	18	103
300	300	300	11	19	117
320	320	300	11.5	20.5	127
340	340	300	12	21.5	134
360	360	300	12.5	22.5	142
400	400	300	13.5	24	155
450	450	300	14	26	171
500	500	300	14.5	28	187
550	550	300	15	29	199
600	600	300	15.5	30	212
650	650	300	16	31	225

Pro-file	Capacity in kg									
	500	1,000	1,600	2,000	2,500	3,200	5,000	6,300	8,000	10,000
100	3.6	2.6	1.4							
120	4.9	3.5	2.7	1.8	1.1					
140	6.2	4.6	3.6	3.1	2.1	1.2				
160	7.7	5.9	4.7	4.3	3.4	2.2				
180	9.1	7.1	5.8	5.3	4.7	3.4	1.1			
200	10.5	8.4	7	6.3	5.7	4.8	2			
220	11.8	9.7	8.2	7.5	6.8	6	3.1	1.7		
240	13.1	11	9.4	8.6	7.9	7.1	4.5	2.7	1.2	
260	14.3	12.3	10.6	9.8	8.9	8.1	5.6	3.6	2.8	
280	15.4	13.4	11.7	10.9	10	9	6.9	4.6	2.5	
300	16.6	14.7	13	12.1	11.2	10.2	8.5	6.1	3.7	1.8
320		15.7	14	13.1	12.2	11.1	9.3	7.7	5.2	3.1
340		16.6	14.9	14	13.1	12	10.1	8.9	6.3	4
360			15.8	14.9	14	12.7	10.8	9.8	7.4	5
400				16.7	15.7	14.5	12.3	11.2	9.4	6.7
450						16.6	14.2	13	11.8	9
500							16.1	14.8	13.5	11.5
550								16.5	15	13.3
600									16.6	15.1
650										16.7

Span data in m



IPE-Profiles DIN 1025 BL 5

INP Nr.	Dimensions in mm				Weight kg/m
	H	B	S	T	
80	80	46	3.8	5.2	6
100	100	55	4.1	5.7	8.1
120	120	64	4.4	6.3	10.4
140	140	73	4.7	6.9	12.9
160	160	82	5	7.4	15.8
180	180	91	5.3	8	18.8
200	200	100	5.6	8.5	22.4
220	220	110	5.9	9.2	26.2
240	240	120	6.2	9.8	30.7
270	270	135	6.6	10.2	36.1
300	300	150	7.1	10.7	42.2
330	330	160	7.5	11.5	49.1
360	360	170	8	12.7	57.1
400	400	180	8.6	13.5	66.3
450	450	190	9.4	14.6	77.6
500	500	200	10.2	16	90.7
550	550	210	11.1	17.2	106
600	600	220	12	19	122

Pro-file	Capacity in kg									
	500	1,000	1,600	2,000	2,500	3,200	5,000	6,300	8,000	10,000
80										
100	1.8									
120	3.1	0.7								
140	4	1.5								
160	5	2.5								
180	6.1	3.8	1.3							
200	7.2	5.3	2.2	1						
220	8.4	6.3	3.5	2						
240	9.7	7.4	5	3.2	1.7					
270	11.4	8.8	6.7	4.5	2.7					
300	13.1	10.4	8.3	6.3	4	1.8				
330	14.7	12	9.9	8.5	6	3.5				
360	16.4	13.6	11.5	10.5	8.6	5.7	1.1			
400		15.5	13.4	12.3	11.2	8	2.6			
450			15.6	14.4	13.3	10.9	4.8			
500				16.6	15.4	13.8	7.7	4.5	1.4	
550						16	10.6	7	3.5	
600							14.2	10.4	6.6	3.3

Span data in m

