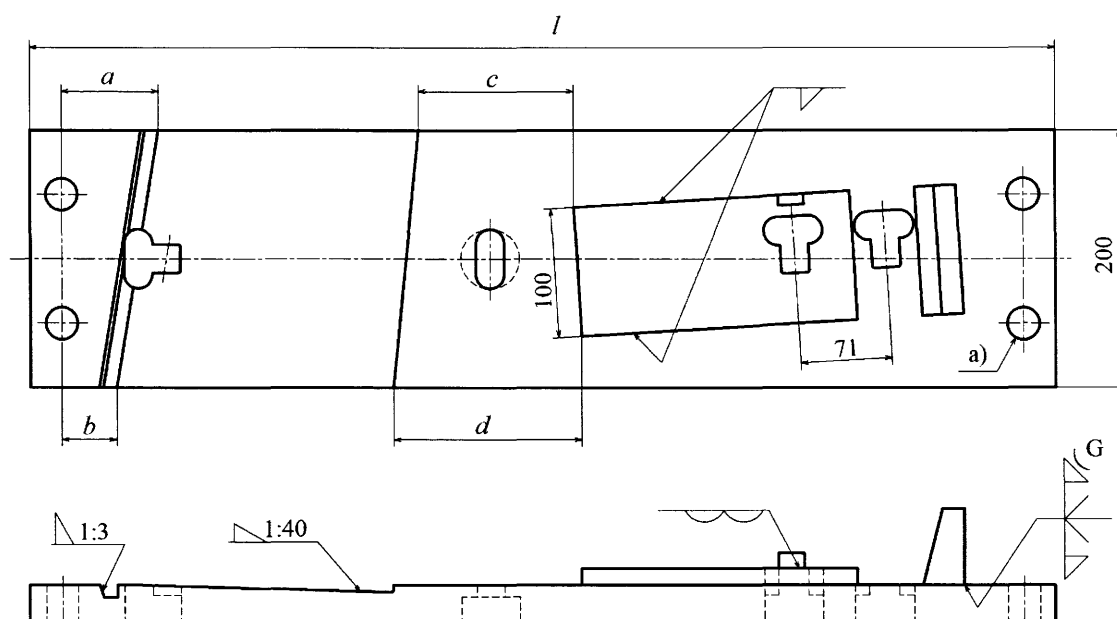


Unit: mm



Gauge	Type of turnout	No.	Design	Alignment	Right-hand/Left-hand	<i>l</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>		
1 067	Simple, left-hand	10	Flexible switch	Intersecting curved tongue rail	Right-hand	800	60	40	132.5	143.5		
		12				750	60	40	95	103		
		16		Tangential curved tongue rail		750	60	40	72.5	80.5		
						700	60	40	47	52.5		
						700	60	40	31.5	36.5		
	700					60	40	37.5	42			
	20			700		60	40	25	29.5			
				800		71	40	138.5	149.5			
				Simple, right-hand		12	Intersecting curved tongue rail	750	68	40	100.5	108.5
						750		67.5	40	78	85.5	
						16	Tangential curved tongue rail	700	80.5	55	47	52.5
	20	700				96		71	31.5	36.5		
		700				90		65.5	37.5	42		
		Symmetrical		10		Intersecting curved tongue rail	700	102	78	25.5	29.5	
	12			850			66	40	133.5	145		
	20			Tangential curved tongue rail			750	64	40	97.5	105.5	
						750	64	40	75	83		
700			62		40	37.5	42					
700			62		40	25	29.5					
1 435	Symmetrical		10		Right-hand	700	66.5	84	37.5	42		
		700				79	96.5	25	29.5			
					760	60	40	115	124			
					740	60	40	90.5	99			

NOTE The order of headings in the table corresponds to the order of installation, with the starting point being the heel of the switch.

Note ^{a)} Shall be square in the case of using dog spikes or square stem spikes.

Figure 2.38 Base plate (for 60 kg rails) (4)

(Drawings omitted due to being symmetrical to Figure 2.38)

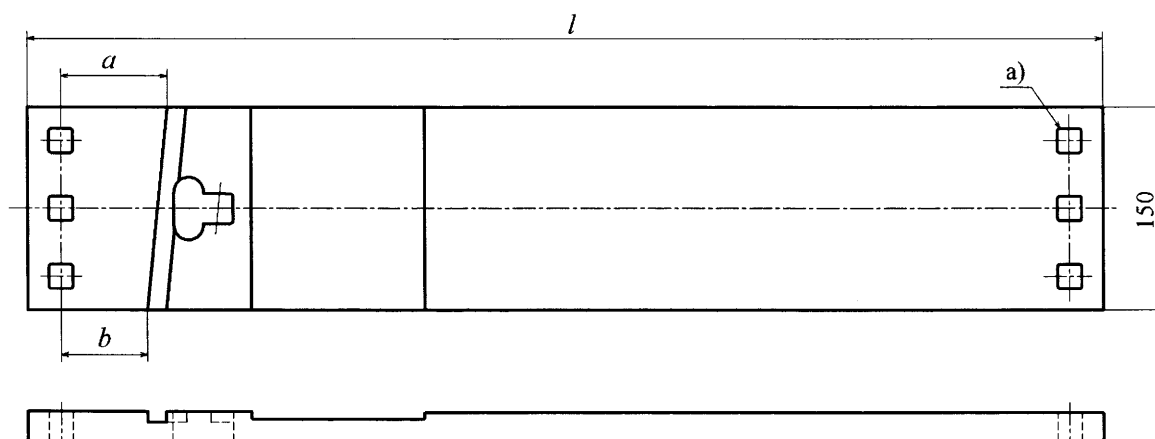
Unit: mm

Gauge	Type of turnout	No.	Design	Alignment	<i>l</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
1 067	Simple, left-hand	10	Flexible switch	Intersecting curved tongue rail	800	51	60	138.5	149.5
		12			750	40	52	100.5	108.5
					750	41	53.5	78	85.5
		16		Tangential curved tongue rail	700	60.5	75	47	52.5
					700	76	91	31.5	36.5
					700	70	85.5	37.5	42
	Simple, right-hand	10		Intersecting curved tongue rail	700	82	98	25.5	29.5
					800	40	60	132.5	143.5
					750	40	60	95	103
		12		Tangential curved tongue rail	750	40	60	72.5	80.5
					700	40	60	47	52.5
					700	40	60	31.5	36.5
		16		Tangential curved tongue rail	700	40	60	37.5	42
					700	40	60	25	29.5
	20	Intersecting curved tongue rail		850	39	58.5	133.5	145	
				750	40	56	97.5	105.5	
Symmetrical	10	Tangential curved tongue rail	750	40	56	75	83		
			760	51	62	116.5	125.5		
1 435	Symmetrical	10	Tangential curved tongue rail	740	56	67	91.5	100.5	

NOTE The order of the headings in the table corresponds to the order of installation, with the starting point being the heel of the switch.

Figure 2.39 Base plate (for 60 kg rails) (5)—Left-hand

Unit: mm

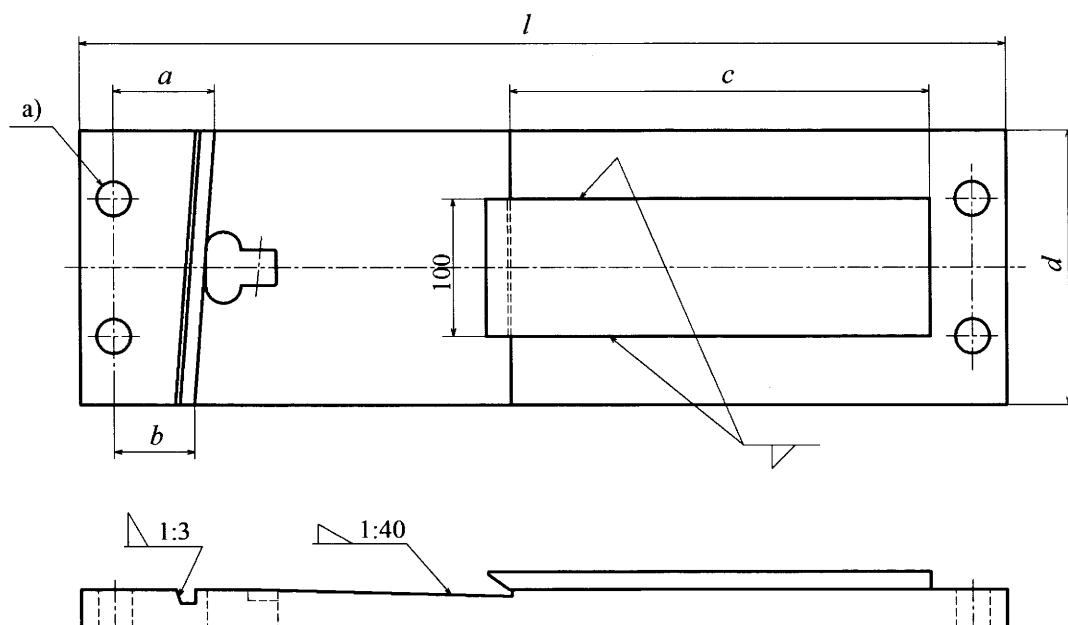


Gauge	No.	Design	Alignment	Fastening means	<i>l</i>	<i>a</i>	<i>b</i>		
1 067	8	Flexible switch	Tangential curved tongue rail	Rail brace	500 , 550 , 600 , 650	60	45		
				Washer	500 , 550 , 600	40	25		
	10			Flexible switch reduced slack type	Rail brace	500 , 550	60	45	
					Washer	500 , 550 , 600	40	25	
		Rail brace			500 , 550	60	45		
		Washer			500 , 550	40	25		
	12	Flexible switch		Rail brace	500 , 550	60	45		
				Washer	500 , 550	40	25		
				Flexible switch reduced slack type	Rail brace	500 , 550	60	45	
					Washer	500 , 550	40	25	
	16	Flexible switch			Rail brace	500 , 550 , 600	60	45	
					Washer	500 , 550	40	25	
1 435				8	Flexible switch	Rail brace	550 , 600	60	45
							600	50	35
	Washer					600	65	50	
						550 , 600	40	25	
10	Flexible switch			Rail brace		550 , 600	60	45	
						600	50	35	
				Washer		600	65	50	
						550 , 600	40	25	
12	Flexible switch			Rail brace		550 , 600	60	45	
						600	50	35	
		Washer	600	65		50			
			550 , 600	40		25			

Note ^{a)} Shall be round in the case of using round stem spikes or screw spikes.

Figure 2.40 Base plate (for 50 kg N rails) (6)

Unit: mm

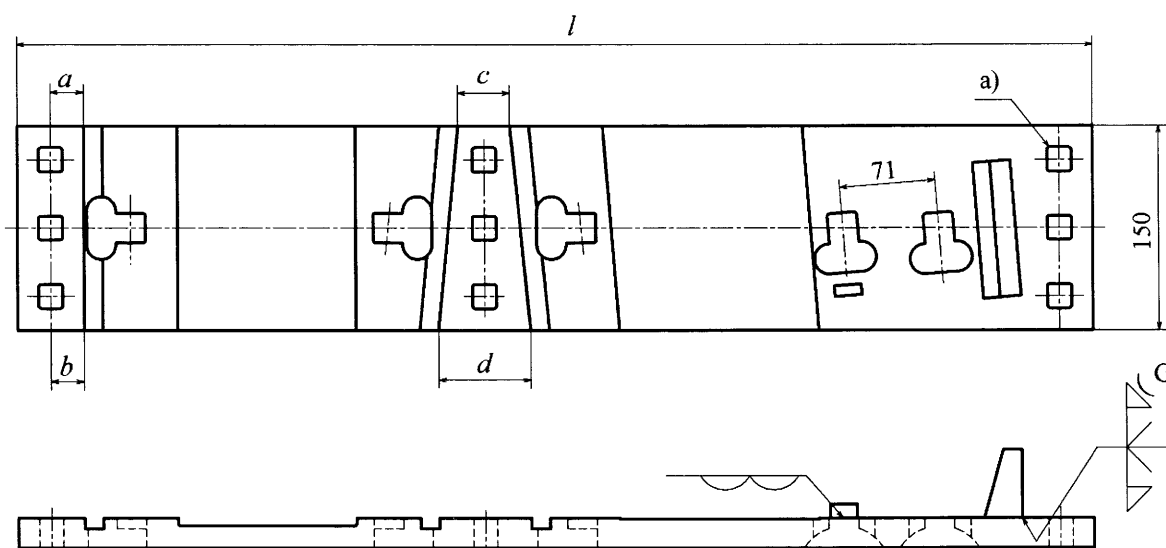


Gauge	No.	Design	Alignment	Fastening means	<i>l</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	
1 067	8	Flexible switch	Tangential curved tongue rail	Rail brace	700	74	59	290	150	
					650	74	59	240	150	
					600	74	59	190	150	
					650	60	40	300	200	
					600	60	40	250	200	
				Washer	650	54	39	310	150	
					600	54	39	260	150	
					550	54	39	210	150	
					650	90	60	300	200	
					600	90	60	250	200	
	Flexible switch reduced slack type	Rail brace	650	60	40	300	200			
		Washer	650	90	60	300	200			
		Rail brace	650	74	59	240	150			
			600	74	59	190	150			
		Washer	550	54	39	210	150			
			500	54	39	160	150			
		Intersecting curved tongue rail	Rail brace	600	60	40	250	200		
			Washer	600	90	60	250	200		
	Tangential curved tongue rail		Rail brace	650	74	59	240	150		
				600	74	59	190	150		
			Washer	550	54	39	210	150		
				500	54	39	160	150		
	Intersecting curved tongue rail		Rail brace	600	60	40	250	200		
			Washer	600	90	60	250	200		
		Flexible switch	Tangential curved tongue rail	Rail brace	650	74	59	240	150	
					600	74	59	190	150	
					600	60	40	250	200	
				Washer	550	54	39	210	150	
					500	54	39	160	150	
					600	90	60	250	200	
	Rail brace	600		60	40	250	200			
		550		60	40	200	200			
		Washer		600	90	60	250	200		
				550	90	60	200	200		
	20	Flexible switch		Tangential curved tongue rail	Rail brace	600	60	40	250	200
					Washer	600	90	70	250	200

Note ^{a)} Shall be square in the case of using dog spikes or square stem spikes.

Figure 2.41 Base plate (for 60 kg rails) (6)

Unit: mm



Gauge	Type of turnout	No.	Design	Alignment	Right-hand/Left-hand	<i>l</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>				
1 067	Simple, left-hand	8	Flexible switch	Tangential curved tongue rail	Right-hand	860	25	25	101	113				
	Symmetrical					820	25	25	59	70				
						860	31	25	101.5	113.5				
						820	30.5	25	59.5	70.5				
1 435	Simple, left-hand	8			Right-hand	780	50	35	51	59.5				
		10				750	50	35	24	32				
						750	50	35	30.5	37				
						730	50	35	9.5	16				
	Simple, right-hand	8			Left-hand	780	50	35	59.5	51				
		10				750	50	35	32	24				
						750	50	35	37	30.5				
						730	50	35	16	9.5				

NOTE The order of the headings in the table corresponds to the order of installation, with the starting point being the heel of the switch.

Note ^{a)} Shall be round in the case of using round stem spikes or screw spikes.

Figure 2.42 Base plate (for 50 kg N rails) (7)

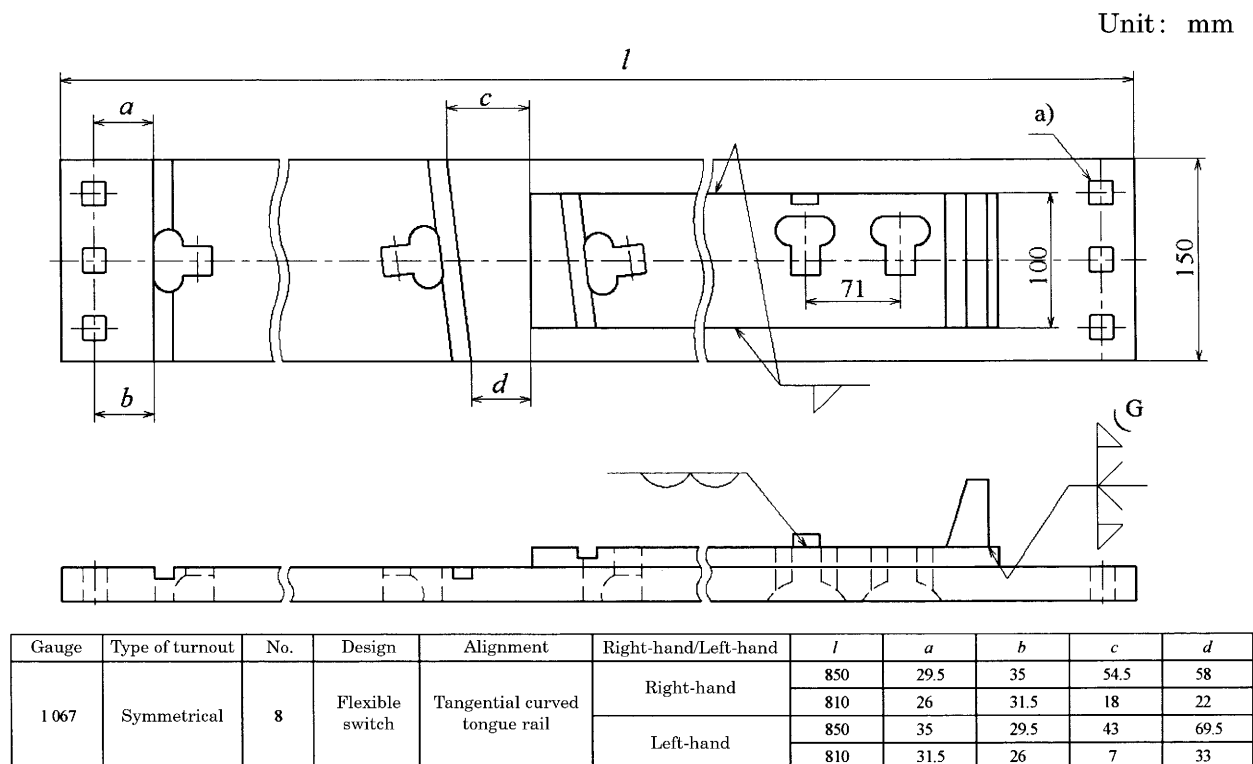
(Drawings omitted due to being symmetrical to Figure 2.42)

Unit: mm

Gauge	Type of turnout	No.	Design	Alignment	Right-hand/Left-hand	<i>l</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	
1 067	Simple, right-hand	8	Flexible switch	Tangential curved tongue rail	Right-hand	860	37	25	104.5	116.5	
	820					36.5	25	62	73.5		
	Left-hand				860	31	25	101.5	113.5		
					820	30.5	25	59.5	70.5		
1 435		Simple, left-hand			8	Left-hand	780	41.5	35	62	53.5
					10		750	41.5	35	34.5	26
	750						43.5	35	38.5	32	
	730						43.5	35	17.5	11	
	Simple, right-hand	8			Right-hand	780	58.5	35	53.5	62	
		10				750	58.5	35	26	34.5	
						750	56.5	35	32	38.5	
						730	56.5	35	11	17.5	

NOTE The order of the headings in the table corresponds to the order of installation, with the starting point being the heel of the switch.

Figure 2.43 Base plate (for 50 kg N rails) (8)

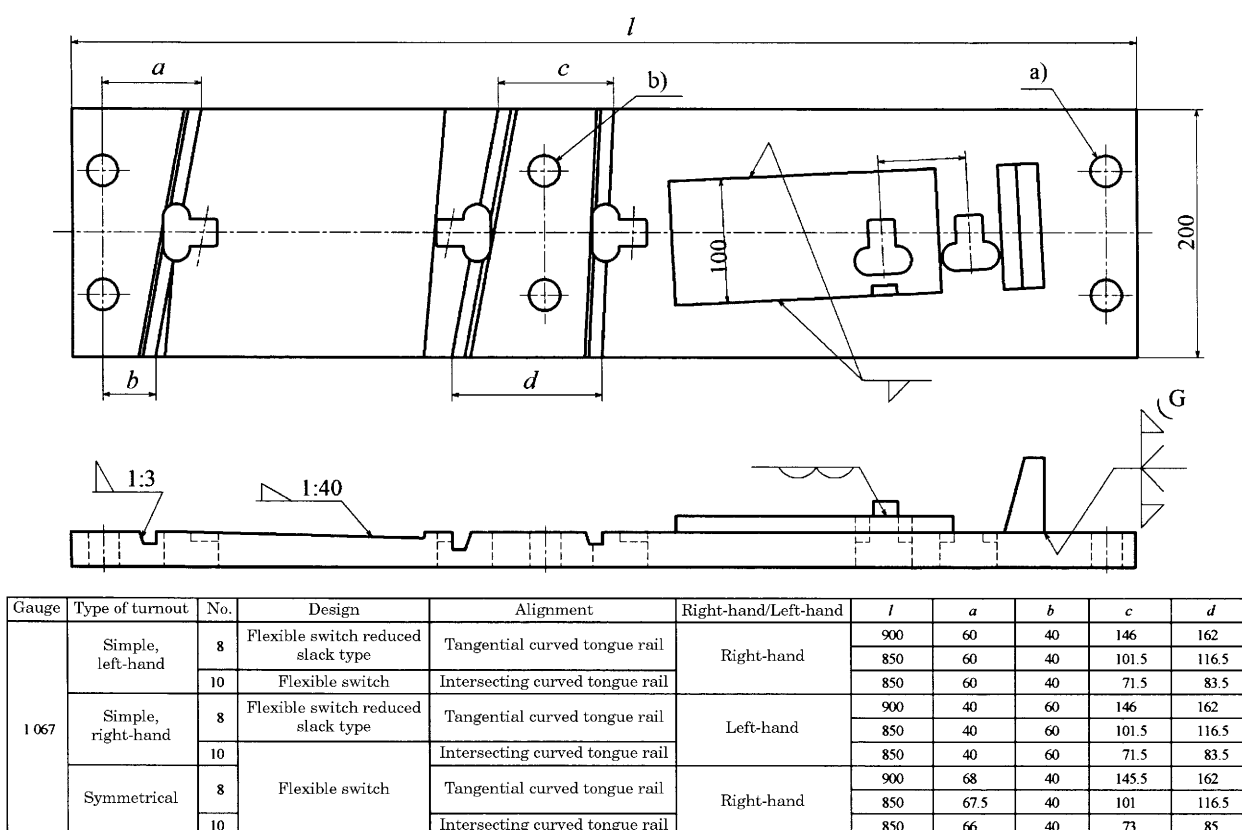


NOTE The order of the headings in the table corresponds to the order of installation, with the starting point being the heel of the switch.

Note ^{a)} Shall be round in the case of using round stem spikes or screw spikes.

Figure 2.44 Base plate (for 60 kg rails) (7)

Unit: mm



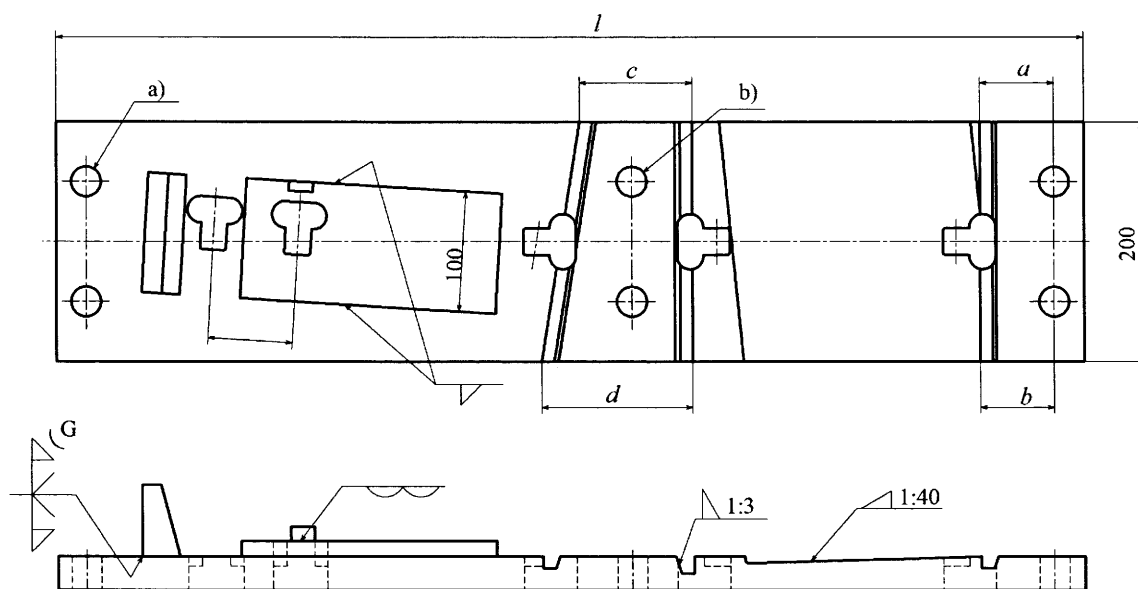
NOTE The order of the headings in the table corresponds to the order of installation, with the starting point being the heel of the switch.

Notes a) Shall be square in the case of using dog spikes or square stem spikes.

b) For No. 10 turnouts, these holes shall not be provided.

Figure 2.45 Base plate (for 60 kg rails) (8)

Unit: mm



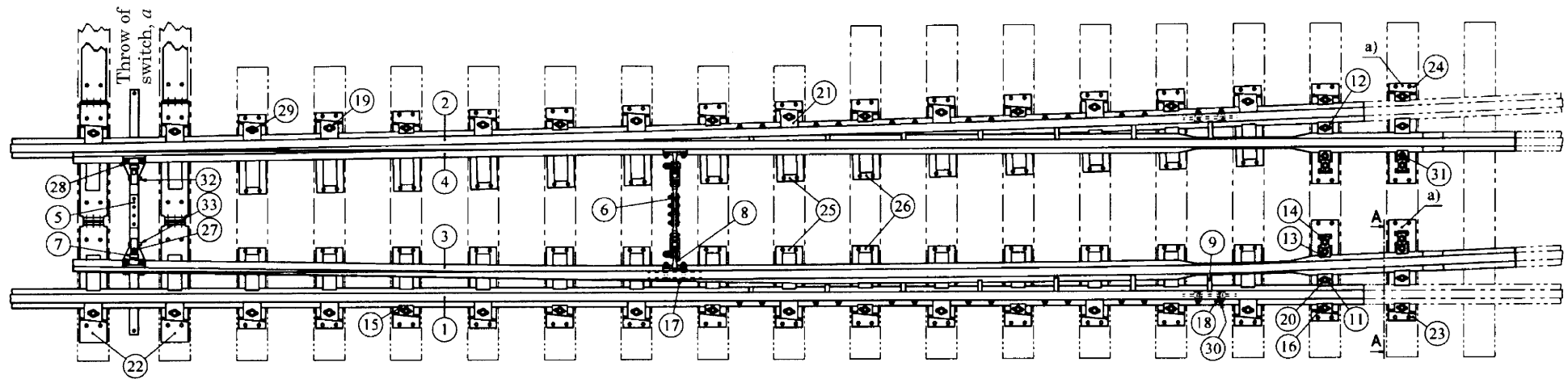
Gauge	Type of turnout	No.	Design	Alignment	Right-hand/Left-hand	l	a	b	c	d
1 067	Simple, left-hand	8	Flexible switch reduced slack type	Tangential curved tongue rail	Left-hand	900	56.5	60	159	175.5
						850	55.5	60	113.5	129
		10	Flexible switch	Intersecting curved tongue rail		850	40	48	78	90
	Simple, right-hand	8	Flexible switch reduced slack type	Tangential curved tongue rail	Right-hand	900	76.5	40	159	175.5
						850	75.5	40	113.5	129
		10		Intersecting curved tongue rail		850	72	40	78	90
	Symmetrical	8	Flexible switch	Tangential curved tongue rail	Left-hand	900	48	60	145.5	162
						850	47.5	60	101	116.5
		10		Intersecting curved tongue rail		850	40	54	73	85

NOTE The order of the headings in the table corresponds to the order of installation, with the starting point being the heel of the switch.

Notes a) Shall be square in the case of using dog spikes or square stem spikes.

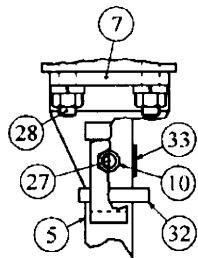
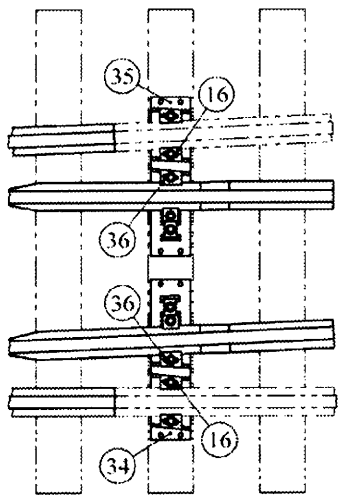
b) For No. 10 turnouts, these holes shall not be provided.

Figure 2.46 Base plate (for 60 kg rails) (9)

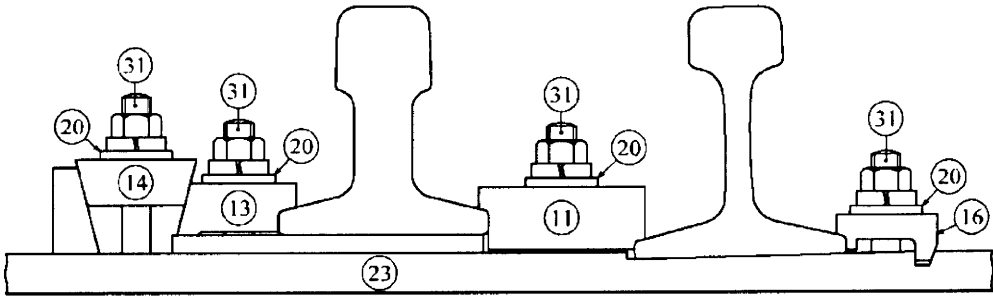


Code	Name	Reference fig.	
		For left-hand simple turnout	For symmetrical turnout
		Using 80S rails	Using 80S rails
①	Stock rail	3.1 (1)	
②	Stock rail	3.1 (2)	
③	Tongue rail	3.2 (1)	
④	Tongue rail	3.3 (1)	3.2 (2)
⑤	Switch rod	2.9	
⑥	Stretcher bar	2.11	
⑦	Bearing clip	2.13	
⑧	Bearing clip	2.14	
⑨	Stud	2.16	
⑩	Collar	1.11	
⑪	Washer	2.18	
⑫	Washer	2.19	
⑬	Washer	2.20	
⑭	Washer	2.21	
⑮	Washer	2.24	
⑯	Washer	2.24	
⑰	Washer	2.27	
⑱	Washer	2.28	
⑲	Washer	—	
⑳	Washer	—	
㉑	Rail brace	2.30	
㉒	Base plate	2.33	
㉓	Base plate	2.38	
㉔	Base plate	2.39	
㉕	Base plate	2.41	
㉖	Base plate	2.41	
㉗	Bolt	—	
㉘	Bolt	—	
㉙	Bolt	—	
㉚	Bolt	—	
㉛	Bolt	—	
㉜	Washer	1.28	
㉝	Washer	1.18	
㉞	Base plate	2.45	
㉟	Base plate	2.46	
㊱	Washer	2.22	

Gauge mm	Type of rail	Type of turnout	No.	Number of switch rods	Number of stretcher bars	Throw of switch, <i>a</i> mm
1 067	60	Simple	10	1	1	165
			12	1	1	165
		Symmetrical	10	1	1	165
			12	1	1	165



Details of switch rod
attachment part



A-A

NOTE The drawing shows a design for No. 12 simple turnout with 1 067 mm gauge, for 60 kg rails.

Note ^{a)} For base plates and washers at the heel of the switch, the following replacements are permitted depending on the spacing between stock rails and tongue rails: ㉓ with ㉞, ㉔ with ㉟, ㉕ with ㉞ and ㉟, and ㉖ with ㉞ and ㉟.

Figure 3 Flexible switch (with intersecting curved tongue rail)

Unit: mm

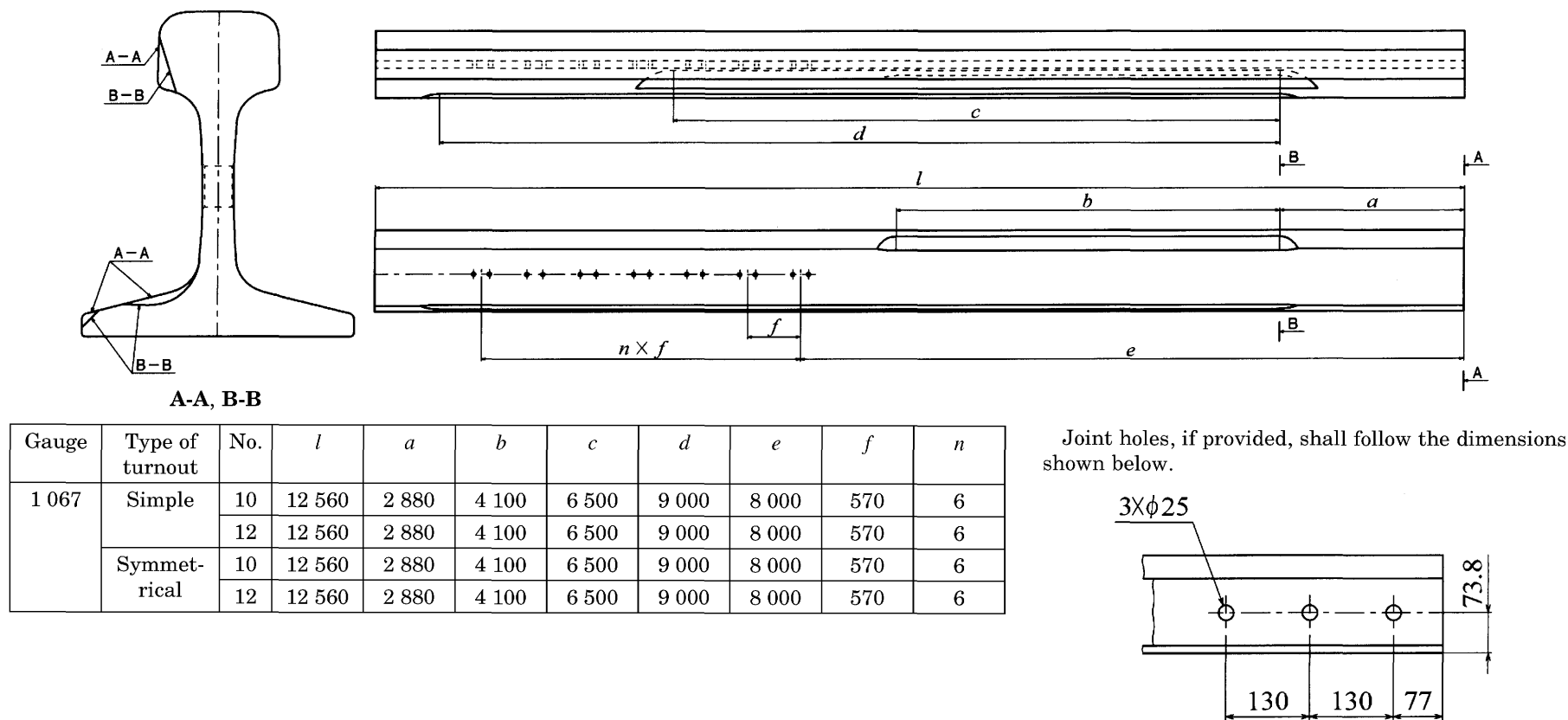


Figure 3.1 (1) Stock rail (60 kg rail) (5)

[Drawings omitted due to being symmetrical to Figure 3.1 (1)]

Figure 3.1 (2) Stock rail (60 kg rail) (6)