

Base structures

Support ring for mat insulation HVAC and process piping below 250 °C

Pipe outside Ø mm	Insulation thickness mm	Ring outer Ø d=mm	Vertical duct 360° €/pc	Horizontal duct 120° €/pc	Horizontal duct 240° €/pc	with inner ring 360° €/pc	bolt joint 360° €/pc
140	40	223	7,01	2,07	5,72	15,21	10,37
140	50	251	7,67	2,35	6,17	16,05	11,09
140	60	284	8,00	2,50	6,40	16,48	11,44
140	80	302	8,91	2,90	7,04	17,66	12,43
140	100	343	9,90	3,33	7,72	23,94	13,50
140	120	383	11,01	3,75	8,39	25,18	14,69
168	40	251	7,63	2,31	6,13	16,74	11,05
168	50	276	8,22	2,56	6,54	17,50	11,69
168	60	290	8,57	2,72	6,79	17,95	12,07
168	80	330	9,53	3,14	7,45	19,19	13,11
168	100	369	10,47	3,55	8,10	25,41	14,13
168	120	422	11,88	4,08	8,96	27,01	15,64
219	40	302	8,76	2,75	6,89	19,53	12,29
219	50	330	9,42	3,02	7,34	20,36	13,00
219	60	343	9,74	3,17	7,57	20,79	13,35
219	80	383	10,81	3,59	8,23	22,03	14,49
219	100	422	11,77	4,01	8,89	28,25	15,54
219	120	462	12,76	4,43	9,55	29,49	16,60
219	140	515	14,23	4,96	10,42	31,43	18,16
273	40	356	9,96	3,21	7,68	22,47	13,59
273	50	383	10,66	3,48	8,12	23,28	14,35
273	60	394	10,95	3,61	8,32	23,65	14,66
273	80	434	11,94	4,03	8,99	24,89	15,73
273	100	489	13,26	4,58	9,87	31,55	17,16
273	120	528	14,38	4,99	10,53	33,06	18,35
273	140	566	15,34	5,40	11,16	34,29	19,39
324	40	409	11,18	3,66	8,46	25,30	14,93
324	50	434	11,78	3,92	8,87	26,06	15,58
324	60	449	12,17	4,08	9,13	26,54	15,99
324	80	489	13,15	4,50	9,80	27,78	17,06
324	100	528	14,25	4,92	10,45	34,25	18,23
324	120	580	15,53	5,44	11,45	35,87	19,61
324	140	620	16,54	5,86	12,14	37,15	20,70
356	50	462	12,43	4,17	9,34	27,69	16,26
356	60	489	13,09	4,43	9,75	28,50	16,96
356	80	528	14,16	4,92	10,39	29,91	18,11
356	100	570	15,21	5,33	11,08	36,26	19,25
356	120	610	16,14	5,77	11,95	37,50	20,29
356	140	645	17,25	6,11	12,57	38,70	21,48
406	50	515	13,64	4,61	10,07	30,64	17,61
406	60	540	14,28	4,87	10,49	31,45	18,30
406	80	580	15,27	5,28	11,24	32,71	19,36
406	100	620	16,28	5,70	11,93	39,01	20,46
406	120	659	17,43	6,12	12,61	40,27	21,67
406	140	700	18,44	6,53	13,29	41,53	22,76
508	50	620	15,96	5,51	11,68	36,28	20,15
508	60	633	16,31	5,66	11,92	36,73	20,53
508	80	685	17,70	6,19	12,79	38,35	22,01
508	100	720	18,69	6,59	13,45	44,59	23,07
508	120	766	19,95	7,03	14,34	46,26	24,41
508	140	803	20,95	7,43	15,02	47,51	25,48
612	50	720	18,31	6,40	13,20	41,86	22,71
612	60	740	18,71	6,56	13,47	42,37	23,14
612	80	790	20,12	7,09	14,44	44,18	24,65
612	100	829	21,16	7,50	15,15	50,50	25,77
612	120	870	22,23	7,92	15,86	51,84	26,91
612	140	910	23,45	8,33	16,57	53,15	28,19
612	160	938	24,54	8,75	17,29	54,49	29,36
714	50	829	20,71	7,31	14,83	47,65	25,34
714	60	840	21,11	7,46	15,10	48,15	25,76
714	80	880	22,13	7,87	15,78	49,43	26,85
714	100	920	23,33	8,29	16,50	55,78	28,12
714	120	973	24,68	8,81	17,55	57,45	29,57
714	140	1010	25,77	9,23	18,30	58,96	30,56
714	160	1050	27,07	9,65	19,04	60,31	31,92
813	50	920	22,81	8,10	16,18	52,93	27,63
813	60	938	23,51	8,37	16,64	53,79	28,38
813	80	984	24,51	8,75	17,41	55,07	29,45
813	100	1024	25,73	9,17	18,15	56,60	30,56
813	120	1065	26,87	9,60	18,91	58,10	31,77
813	140	1105	27,99	10,02	19,65	61,36	33,96
813	160	1145	29,10	10,44	20,40	62,78	35,15
914	50	1024	25,16	8,97	17,75	55,02	30,01
914	60	1050	25,90	9,28	18,13	57,59	31,82
914	80	1090	26,94	9,65	18,92	59,24	32,91
914	100	1130	28,02	10,06	19,66	62,98	34,10
914	120	1170	29,41	10,70	20,64	66,04	35,58
914	140	1210	30,44	11,08	21,31	68,25	36,68
914	160	1250	31,68	11,54	22,08	70,42	37,89
1016	50	1130	27,48	9,88	19,31	59,33	35,55
1016	60	1154	28,22	10,21	19,84	61,36	36,34
1016	80	1194	29,37	10,66	20,61	63,05	37,55
1016	100	1235	30,53	11,11	21,39	66,05	38,79
1016	120	1275	31,82	11,56	22,16	68,73	40,15
1016	140	1315	32,99	12,00	22,93	71,05	41,39
1016	160	1358	34,22	12,47	23,95	76,11	44,70

Support steels with inner ring and bolt joint includes bolts.

**Base structures**

Support ring for mat insulation HVAC and process piping over 250 °C

With 30x30x5xmm Nefalit

Pipe outside Ø mm	Insulation thickness mm	Ring outer Ø d=mm	Vertical duct 360° €/pc	Horizontal duct 240° €/pc	Horizontal duct 120° €/pc	with inner ring 360° €/pc
219	60	343	18,63	15,85	10,31	30,56
219	80	383	19,88	16,92	11,00	31,87
219	100	422	19,66	16,73	10,87	32,08
219	120	462	20,95	17,83	11,59	32,41
219	140	515	21,47	18,27	11,88	32,96
273	60	394	18,83	16,03	10,42	30,99
273	80	434	20,02	17,04	11,07	32,30
273	100	489	25,16	21,41	13,92	32,63
273	120	528	25,75	21,92	14,25	39,83
273	140	566	26,47	22,53	14,64	40,60
324	60	449	19,03	16,19	10,53	31,43
324	80	489	20,22	17,21	11,18	32,74
324	100	528	24,97	21,25	13,82	39,95
324	120	580	26,06	22,18	14,42	40,38
324	140	620	26,67	22,70	14,75	41,03
356	60	489	19,13	16,28	10,58	31,76
356	80	528	25,64	21,82	14,19	40,05
356	100	570	25,87	22,01	14,31	40,27
356	120	610	26,16	22,27	14,47	40,60
356	140	645	26,78	22,79	14,82	41,26
406	60	540	23,59	20,07	13,05	38,86
406	80	580	25,92	22,06	14,34	40,48
406	100	620	26,06	22,18	14,42	40,72
406	120	659	31,07	26,44	17,19	48,12
406	140	700	31,79	27,05	17,58	48,89
508	60	633	27,20	23,15	15,05	39,37
508	80	685	30,87	26,27	17,08	48,35
508	100	720	31,17	26,53	17,24	48,67
508	120	766	31,87	27,12	17,63	49,01
508	140	803	36,89	31,40	20,41	56,77
612	60	740	29,53	25,13	16,34	47,37
612	80	790	31,28	26,62	17,30	49,22
612	100	829	31,38	26,71	17,36	56,54
612	120	870	31,48	26,79	17,41	56,97
612	140	910	37,30	31,74	20,63	57,83
612	160	938	42,42	36,10	23,46	65,28
714	60	840	36,28	30,88	20,07	54,61
714	80	880	41,19	35,06	22,79	57,19
714	100	920	41,60	35,40	23,01	64,39
714	120	973	42,52	36,18	23,52	64,83
714	140	1010	47,63	40,54	26,35	65,81
714	160	1050	48,55	41,32	26,86	73,34
813	60	938	38,74	32,97	21,43	62,21
813	80	984	39,96	34,01	22,11	63,63
813	100	1024	41,70	35,49	23,07	67,44
813	120	1065	44,76	38,10	24,76	70,73
813	140	1105	46,41	39,49	25,67	72,58
813	160	1145	50,05	42,59	27,69	78,26
914	60	1050	42,61	36,27	23,57	68,87
914	80	1090	44,26	37,67	24,49	70,72
914	100	1130	46,00	39,15	25,44	72,58
914	120	1170	49,06	41,75	27,14	77,81
914	140	1210	50,79	43,23	28,10	79,66
914	160	1250	54,17	46,10	29,97	85,35
1016	60	1154	46,91	39,93	25,95	75,96
1016	80	1194	48,65	41,40	26,91	77,81
1016	100	1235	49,87	42,45	27,59	81,31
1016	120	1275	53,35	45,40	29,51	84,89
1016	140	1315	55,09	46,88	30,47	86,75
1016	160	1358	58,46	49,75	32,34	92,44

Support steels with inner ring and bolt joint includes bolts.

Base structures

Support ring for mat insulation round ventilation ducts under 250 °C

Pipe outside Ø mm	Insulation thickness mm	Ring outer Ø d=mm	Vertical duct 360° €/pc	Horizontal duct 120° €/pc	Horizontal duct 240° €/pc	with inner ring 360° €/pc	bolt joint 360° €/pc
200	40	290	8,51	2,65	6,72	18,32	12,01
200	50	316	9,12	2,91	7,14	18,93	12,68
200	60	330	9,47	3,07	7,38	19,29	13,05
200	80	369	10,41	3,48	8,04	20,22	14,07
200	100	409	11,50	3,90	8,71	25,85	15,24
200	120	449	12,49	4,32	9,37	26,68	16,31
250	40	343	9,68	3,10	7,50	20,73	13,30
250	50	362	10,14	3,30	7,82	21,17	13,79
250	60	383	10,72	3,52	8,17	21,65	14,41
250	80	422	11,69	3,93	8,82	22,53	15,46
250	100	462	12,67	4,35	9,49	28,01	16,53
250	120	502	13,62	4,76	10,13	28,76	17,55
250	140	540	14,79	5,18	10,79	29,86	18,79
315	40	409	11,19	3,67	8,47	23,67	14,95
315	50	422	11,53	3,82	8,70	23,98	15,31
315	60	462	12,18	4,09	9,14	24,54	16,01
315	80	489	13,17	4,51	9,81	25,37	17,08
315	100	525	14,20	4,90	10,42	30,86	18,18
315	120	565	15,21	5,32	11,09	31,63	19,27
315	140	605	16,23	5,74	11,93	32,37	20,36
400	40	489	12,96	4,35	9,66	27,22	16,89
400	50	510	13,55	4,57	10,00	27,75	17,51
400	60	540	14,05	4,78	10,34	28,16	18,05
400	80	570	15,07	5,20	11,01	28,97	19,15
400	100	610	16,08	5,63	11,80	34,09	20,24
400	120	650	17,25	6,05	12,49	34,78	21,48
400	140	690	18,29	6,47	13,19	35,44	22,60
500	40	590	15,25	5,22	11,20	31,30	19,38
500	50	610	15,76	5,43	11,54	31,67	19,93
500	60	640	16,27	5,64	11,89	32,04	20,48
500	80	670	17,38	6,06	12,58	32,74	21,67
500	100	710	18,42	6,48	13,28	37,60	22,79
500	120	750	19,46	6,91	13,97	38,19	23,90
500	140	790	20,68	7,33	14,84	39,09	25,19
630	40	720	18,18	6,34	13,12	35,98	22,59
630	50	740	18,70	6,55	13,46	36,29	23,15
630	60	766	19,22	6,76	13,81	36,59	23,70
630	80	800	20,37	7,18	14,61	37,36	24,92
630	100	840	21,43	7,60	15,33	41,92	26,06
630	120	880	22,50	8,02	16,05	42,43	27,20
630	140	920	23,74	8,44	16,76	42,91	28,52
630	160	960	24,83	8,86	17,69	43,37	29,69
800	40	890	22,00	7,80	15,68	41,37	26,76
800	50	910	22,60	8,01	16,04	41,61	27,39
800	60	938	23,14	8,22	16,40	41,86	27,98
800	80	973	24,23	8,64	17,22	42,32	29,14
800	100	1010	25,33	9,06	17,96	47,01	35,14
800	120	1050	26,57	9,48	18,71	48,40	36,45
800	140	1090	27,69	9,90	19,45	49,54	37,64
800	160	1130	28,80	10,32	20,20	50,69	38,83
1000	40	1090	26,53	9,52	18,68	48,60	36,54
1000	50	1110	27,09	9,73	19,06	49,17	37,13
1000	60	1130	27,65	9,94	19,43	49,74	37,73
1000	80	1170	28,87	10,46	20,28	50,88	39,02
1000	100	1210	30,01	10,91	21,05	55,74	40,23
1000	120	1250	31,15	11,35	21,82	56,88	41,45
1000	140	1290	32,48	11,80	22,59	58,37	42,84
1000	160	1330	33,65	12,25	23,36	59,56	44,08
1250	40	1340	32,17	11,72	22,48	59,29	42,70
1250	50	1360	32,76	11,94	22,88	59,89	43,32
1250	60	1380	33,34	12,16	23,27	60,49	43,94
1250	80	1420	34,61	12,61	24,07	61,68	45,28
1250	100	1460	35,81	13,06	24,87	66,58	46,54
1250	120	1500	37,00	13,50	25,66	67,77	47,81
1250	140	1540	38,37	14,13	26,64	69,31	49,25
1250	160	1580	39,59	14,60	27,46	70,55	50,54

Support steels with inner ring and bolt joint includes bolts.

**Base structures**

**Support structures for mat and slab insulations, big tanks and round ducts diameter > 2000 mm**

**Flex distance support**

Standard length circa 4 m or circa 6 m

Distance ring 30x3 flat, distance support 30x3 flat bent

Insulation nominal strength	Ring nominal distance	Material		Material	
		Ring 30x3 flat S235JRG2 30x3 flat S235JRG2	Support 30x3 flat S235JRG2	Ring 30x3 flat S235JRG2 Support 30x3 flat AISI 304	Support 30x3 flat AISI 304
mm	mm	partition 500 mm	partition 350 mm	partition 500 mm	partition 350 mm
		€/m	€/m	€/m	€/m
50	60	3,82	4,20	4,45	5,16
60	70	3,83	4,30	4,62	5,39
80	90	3,90	4,41	4,95	5,88
100	110	3,97	4,51	5,28	6,35
120	130	4,04	4,62	5,62	6,82
140	150	4,13	4,72	5,95	7,30
160	170	4,20	4,82	6,28	7,77
180	190	4,27	4,92	6,62	8,25
200	210	4,35	5,03	6,95	8,72

**Straight distance support**

Standard length circa 4 m or circa 6 m

Distance ring 30x3 flat, distance support 30x3 flat straight

Insulation nominal strength	Ring nominal distance	Material		Material	
		Ring 30x3 flat S235JRG2 30x3 flat S235JRG2	Support 30x3 flat S235JRG2	Ring 30x3 flat S235JRG2 Support 30x3 flat AISI 304	Support 30x3 flat AISI 304
mm	mm	partition 500 mm	partition 350 mm	partition 500 mm	partition 350 mm
		€/m	€/m	€/m	€/m
50	60	3,46	3,83	3,91	4,45
60	70	3,48	3,91	4,03	4,63
80	90	3,52	3,93	4,27	4,96
100	110	3,56	4,01	4,50	5,30
120	130	3,62	4,08	4,74	5,63
140	150	3,68	4,16	4,97	5,97
160	170	3,73	4,23	5,21	6,31
180	190	3,79	4,31	5,44	6,64
200	210	3,83	4,39	5,68	6,98

**Support ring for mat insulations, small tanks and round ducts diameter < 2000 mm**

Fastening multiplex 100 mm with riveting or welding.

Distance ring 30x3 flat, distance support 30x3 flat bent.

Insulation nominal strength	Ring nominal distance	Material		Material	
		Ring 30x3 flat S235JRG2 30x3 flat S235JRG2	Support 30x3 flat S235JRG2	Ring 30x3 flat S235JRG2 Support 30x3 flat AISI 304	Support 30x3 flat AISI 304
mm	mm	straight support €/m	flex support €/m	straight support €/m	flex support €/m
50	60	6,53	7,01	7,25	7,95
60	70	6,58	7,05	7,42	8,19
80	90	6,64	7,15	7,75	8,67
100	110	6,72	7,25	8,09	9,14
120	130	6,77	7,34	8,42	9,61
140	150	6,85	7,43	8,77	10,10
160	170	6,91	7,54	9,11	10,57
180	190	6,99	7,64	9,44	11,05
200	210	7,05	7,73	9,78	11,53

**Support strips for tank cone cladding**

Size mm	Material	€/sheet
0,7x100x150	Colour coated	<b>0,78</b>
1,0x100x150	Hot galvanized	<b>0,99</b>

**Supporting steel (diamond piece)**

Insulation nominal strength	Ring nominal distance	Material	Material
		70x5 flat S235JRG2	70x5 flat AISI 304
mm	mm	€/kpl	€/kpl
40	50	1,81	4,29
50	60	1,94	4,89
60	70	2,05	5,54
80	90	2,29	6,74
100	110	2,52	7,98
120	130	2,74	9,23
140	150	2,98	10,46
150	160	3,08	11,09
160	170	3,20	11,68
180	190	3,42	12,92
200	210	3,66	14,12

**Base structures**

**Wool spikes (welding)**

Material round bar ST37K (S235JRG2)  
Diameter 4 mm

Insulation nominal strength	Fastening spike length	STRAIGHT €/10 kg box	pieces/box	Fastening spike length	CURVED €/10 kg box	pieces/box	Fastening spike length	STRAIGHT WITH STRAIGHT SPOT WELDING SOCKET €/10 kg box
50 mm	80 mm	26,40	1250	55 mm	91,58	1250		
60 mm	90 mm	26,40	1111	65 mm	84,44	1111		
80 mm	110 mm	26,40	909	85 mm	74,07	909	85 mm	42,74
100 mm	130 mm	26,40	769	105 mm	66,88	769	105 mm	42,74
120 mm	150 mm	26,40	667	125 mm	61,64	667	125 mm	42,74
140 mm	170 mm	26,40	588	145 mm	57,58	588	145 mm	42,74
150 mm	180 mm	26,40	555	155 mm	55,89	555	155 mm	42,74
160 mm	190 mm	26,40	526	165 mm	54,40	526	165 mm	42,74
180 mm	210 mm	26,40	476	185 mm	51,83	476	185 mm	42,74
200 mm	230 mm	26,40	435	205 mm	49,73	435	205 mm	42,74
220 mm	250 mm	26,40	400	225 mm	47,93	400		
240 mm	270 mm	26,40	370	245 mm	46,39	370		
250 mm	280 mm	26,40	357	255 mm	45,73	357		
260 mm	290 mm	26,40	345	265 mm	45,11	345		
280 mm	310 mm	26,40	322	285 mm	43,92	322		
300 mm	330 mm	26,40	303	305 mm	42,95	303		

**Wool spikes (welding)**

Material round bar AISI 304 (RST)  
Diameter 4 mm

Insulation nominal strength	Fastening spike length	STRAIGHT €/10 kg box	pieces/box	Fastening spike length	CURVED €/10 kg box	pieces/box
50 mm	80 mm	133,70	1250	55 mm	199,81	1250
60 mm	90 mm	127,97	1111	65 mm	186,73	1111
80 mm	110 mm	119,66	909	85 mm	167,74	909
100 mm	130 mm	113,88	769	105 mm	154,56	769
120 mm	150 mm	109,76	667	125 mm	145,04	667
140 mm	170 mm	106,43	588	145 mm	137,53	588
150 mm	180 mm	105,03	555	155 mm	134,38	555
160 mm	190 mm	103,87	526	165 mm	131,69	526
180 mm	210 mm	101,82	476	185 mm	127,00	476
200 mm	230 mm	100,21	435	205 mm	123,23	435
220 mm	250 mm	98,73	400	225 mm	119,89	400
240 mm	270 mm	97,42	370	245 mm	116,98	370
250 mm	280 mm	96,93	357	255 mm	115,81	357
260 mm	290 mm	96,51	345	265 mm	114,76	345
280 mm	310 mm	95,37	322	285 mm	112,40	322
300 mm	330 mm	94,74	303	305 mm	110,76	303

**Flat wool spike**

Distance ring 30x3 flat, wool spike  $\varnothing$  4 mm straight, fixing from the ends M8 x 30-50 mm.

Insulation nominal strength	Wool spike nominal strength	Material	
		Ring 30x3 flat S235JRG2	Ring 30x3 flat AISI 304
mm	mm	partition 300 mm	partition 300 mm
		€/m	€/m
50	55	3,83	5,72
60	65	3,90	5,89
80	85	3,93	6,22
100	105	4,01	6,56
120	125	4,08	6,89
140	145	4,16	7,23
160	165	4,23	7,57
180	185	4,30	7,90
200	205	4,38	8,24

**Base structures**

**Round bars**

Ø/length mm/m	Material	kg/m	€/m
4 / 5	St37k	0,100	0,32
8 / 5	St37k	0,395	1,17
10 / 5	St37k	0,620	1,83
4 / 3	Stainless steel	0,100	1,04
8 / 3	Stainless steel	0,395	3,71
8 / 3	Acid proof steel	0,395	6,41

**Flat bars**

Size/length mm/m	Material	kg/m	€/m
30x3 / 4	S235JRG2	0,710	1,49
70x5 / 4	S235JRG2	2,750	5,78
30x3 / 4	Stainless steel	0,710	5,97
60x5 / 4	Stainless steel	2,360	19,87
30x3 / 4	Acid proof steel	0,710	9,34
60x5 / 4	Acid proof steel	2,360	31,06

**Corner bars**

Size/length mm/m	Material	kg/m	€/m
30x30x3 / 6	S235JRG2	1,360	2,86
50x50x5 / 6	S235JRG2	3,770	7,95
30x30x3 / 6	Stainless steel	1,360	11,45
50x50x5 / 6	Stainless steel	3,770	31,73
30x30x3 / 6	Acid proof steel	1,360	17,89
50x50x5 / 6	Acid proof steel	3,770	49,60

**Cold rolled U-bars**

Size/length mm/m	Material	kg/m	€/m
U 40 x 20 x 2/4-6	S235JRG2	1,150	3,15

Prices on blue background are stock products.

NOTICE! Prices are valid with minimum order 5 pieces/product.

VAT 0 %.