Index

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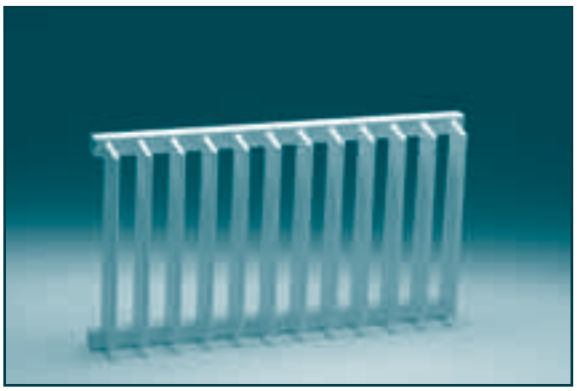
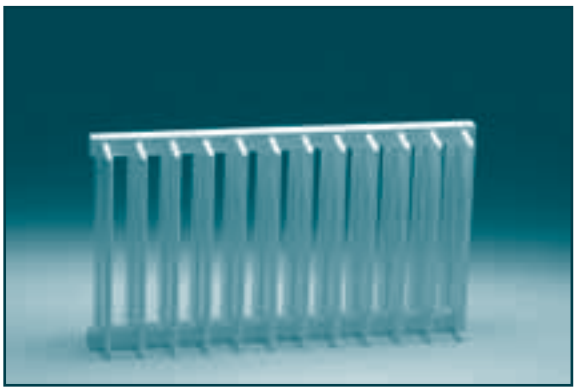


SCE



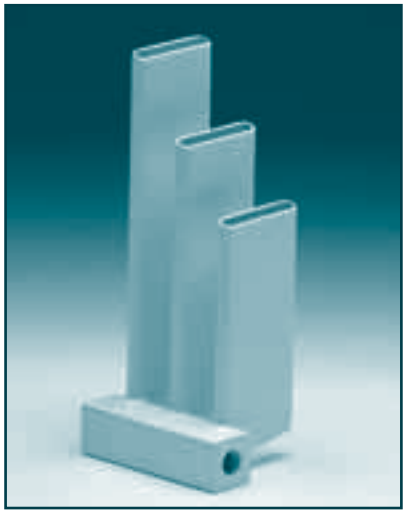
SCD

Features

- Design allows light and vision between elements
- Simple clean lines with square headers and raked tubes
- Very robust steel tube design
- Low level design for use in front of glazing
- Tall and slim design for use in limited spaces or free standing
- Comprehensive aesthetic appeal due to range of element spacings
- Element spacings allow greater flexibility when sizing
- Easy to clean
- Can be used as railings or ballustrades
- Can be supplied with electric element

Product description

SC



SCE cutaway

Description

Column radiator made from steel tubes. Square, horizontal headers with brazed, vertical flat tubes raked at top and bottom. Single or double design with elements on one or both sides. Single design is designated SCE, double design is designated SCD.

Material

Headers: Square steel tube 35 x 35 x 2.5 mm to DIN 2395/2
Elements: Steel tube 70 x 11 x 1.9 mm to DIN 2395

Technical data

Table 7.1.1
SCE (single)

SCE	W/m. 75/65-20°C			W/m. 90/70-20°C			Water cont	Weight	Max length		
Height mm	Element spacing mm			Element spacing mm			litres/ element	kg/ element	Element spacing mm		
	40	60	80	40	60	80			40	60	80
300	595	469	413	749	592	519	0.25	0.9	4600	4600	4600
400	753	590	514	948	745	646	0.30	1.1	4600	4600	4600
500	908	707	611	1143	894	769	0.35	1.4	4600	4600	4600
600	1058	821	705	1333	1039	887	0.40	1.6	4600	4600	4600
700	1208	933	797	1523	1181	1004	0.45	1.8	4600	4600	4600
800	1355	1046	888	1710	1324	1119	0.50	2.1	4600	4600	4600
900	1505	1158	979	1901	1467	1235	0.55	2.3	4560	4600	4600
1000	1653	1270	1070	2088	1610	1351	0.60	2.5	4120	4600	4600
1100	1800	1382	1161	2276	1754	1466	0.65	2.7	3760	4600	4600
1200	1950	1494	1252	2467	1897	1582	0.70	3.0	3440	4600	4600
1300	2100	1608	1339	2658	2043	1694	0.75	3.2	3200	4600	4600
1400	2253	1717	1430	2852	2183	1810	0.80	3.4	2960	4300	4600
1500	2405	1836	1534	3047	2336	1943	0.85	3.7	2760	4060	4600
1600	2550	1955	1625	3233	2489	2060	0.90	3.9	2600	3820	4600
1700	2725	2074	1716	3457	2642	2176	0.95	4.1	1600	1600	1560
1800	2875	2193	1820	3649	2795	2310	1.00	4.4	1600	1600	1560
1900	3025	2312	1911	3841	2949	2427	1.05	4.6	1600	1600	1560
2000	3200	2448	2015	4066	3124	2561	1.10	4.8	1600	1600	1560
2100	3350	2567	2119	4259	3278	2695	1.15	5.0	1600	1600	1560
2200	3525	2686	2210	4484	3432	2812	1.20	5.3	1600	1600	1560
2300	3700	2822	2314	4709	3608	2946	1.25	5.5	1600	1600	1560
2400	3875	2958	2418	4934	3785	3081	1.30	5.8	1600	1600	1560
2500	4025	3094	2535	5128	3961	3232	1.35	6.0	1600	1600	1560
2600	4200	3230	2639	5354	4138	3367	1.40	6.2	1600	1600	1560
2700	4400	3366	2743	5612	4315	3502	1.45	6.4	1560	1600	1560
2800	4575	3502	2860	5839	4492	3654	1.50	6.7	1480	1600	1560
2900	4750	3638	2977	6065	4670	3806	1.55	6.9	1440	1600	1560
3000	4950	3791	3094	6324	4869	3958	1.60	7.1	1400	1600	1560

Table 7.1.2
SCD (double)

SCD	W/m 75/65-20oC			W/m. 90/70-20°C			Water cont.	Weight	Max length		
Height mm	Element spacing mm			Element spacing mm			litres/ element	kg/ element	Element spacing mm		
	40	60	80	40	60	80			40	60	80
300	960	729	607	1217	927	768	0.37	1.5	4600	4600	4600
400	1225	942	780	1553	1199	987	0.46	2.0	4600	4600	4600
500	1483	1151	949	1881	1465	1202	0.55	2.4	4200	4600	4600
600	1738	1355	1114	2206	1725	1411	0.64	2.9	3520	4600	4600
700	1990	1557	1278	2526	1982	1619	0.73	3.4	3040	4420	4600
800	2240	1751	1443	2845	2229	1829	0.82	3.8	2640	3880	4600
900	2488	1955	1599	3162	2490	2027	0.91	4.3	2360	3460	4520
1000	2725	2159	1768	3464	2750	2242	1.00	4.7	2120	3100	4040
1100	2975	2346	1924	3784	2988	2440	1.09	5.2	1920	2860	3720
1200	3225	2550	2080	4103	3249	2639	1.18	5.7	1760	2620	3480
1300	3500	2737	2249	4456	3487	2854	1.27	6.1	1640	2440	3240
1400	3750	2941	2405	4776	3748	3053	1.36	6.6	1520	2260	3000
1500	4000	3128	2561	5056	3987	3251	1.45	7.0	1400	2080	2760
1600	4250	3332	2730	5417	4248	3467	1.54	7.5	1320	1960	2600
1700	4500	3519	2886	5738	4487	3666	1.63	8.0	1240	1600	1560
1800	4775	3723	3055	6092	4748	3882	1.72	8.4	1160	1600	1560
1900	5250	3910	3211	6700	4988	4081	1.81	8.9	1120	1600	1560
2000	5300	4114	3380	6768	5249	4297	1.90	9.3	1040	1540	1560
2100	5575	4301	3536	7122	5488	4496	1.99	9.8	1000	1480	1560
2200	5825	4505	3705	7444	5750	4713	2.08	10.3	960	1420	1560
2300	6100	4692	3874	7799	5989	4929	2.17	10.7	920	1360	1560
2400	6375	4896	4030	8154	6251	5128	2.26	11.2	880	1300	1560
2500	6675	5083	4199	8542	6491	5345	2.35	11.6	840	1240	1560
2600	6950	5287	4368	8898	6751	5562	2.44	12.1	800	1180	1560
2700	7225	5491	4537	9255	7013	5779	2.53	12.6	800	1120	1480
2800	7525	5678	4706	9643	7253	5995	2.62	13.0	760	1120	1480
2900	7825	5882	4888	10031	7515	6229	2.71	13.5	720	1060	1400
3000	8100	6086	5057	10389	7777	6446	2.80	13.9	720	1000	1320

Test pressure 10 bar

Max. operating pressure 7.7 bar in accordance with BS EN 442

Max. operating temperature 120°C

Output See output tables, catalogue section 3

Product description

SC

Fig. 7.1.3
Height and length

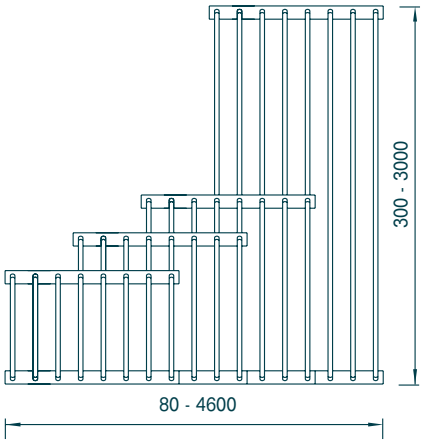


Fig. 7.1.4
SCE, profile

Fig. 7.1.5
SCD, profile

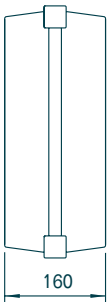
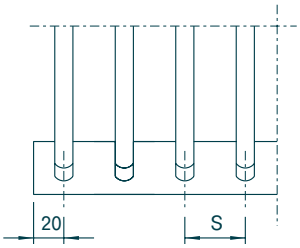


Fig. 7.1.6
Element spacing S
and end dimensions



Element spacing

S = 40, 60 or 80 mm

Length

80-4600 mm
Max. length, however, depends on height and weight, see tables 7.1.1 - 2
No. of elements for a given length, see table 7.1.7
Radiator length L is calculated as:
Element spacing S x (no. of elements – 1) + 40 mm

No. of elements for a given radiator length is calculated as:
(Radiator length L – 40)/Element spacing S + 1

Height

300-3000 mm in increments of 100 mm

Depth

SCE: 98 mm
SCD: 160 mm

Tappings

15 tapping options: 1/8", 3/8", 1/2", 3/4", see page 7.2.1
Air vent is supplied, see page 7.6.1

Mounting

Wall or floor mounted using feet or mounting pillars, see pages 7.3.1 - 12
Brackets with coach screws, wall plugs and washers are included,
see page 7.3.1

Colour

Powder coated in white RAL 9010

Ready-painted in other RAL and BS colours VARIANT

Packing

Packed individually in heavy duty cardboard with plastic strapping and wooden reinforcement

Optional extras (Variant or Individual)

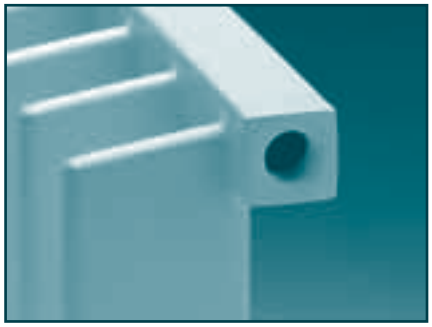
- Angled or curved, see pages 7.5.1 - 4
- Water connection through feet, see pages 7.3.5 - 8
- Mounting pillars, see pages 7.3.9 - 12
- Can be fitted with electric element

Table of lengths

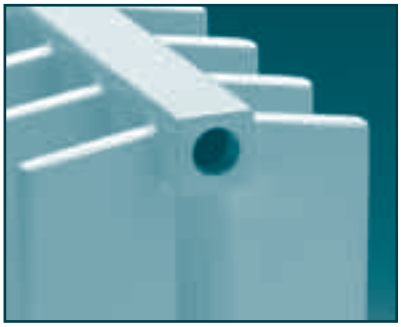
Table 7.1.7
No. of elements at a given length

Length	Element spac mm			Length	Element spac mm			Length	Element spac mm			Length	Element spac mm		
mm	40	60	80	mm	40	60	80	mm	40	60	80	mm	40	60	80
80	2			1280	32			2480	62			3680	92		
100		2		1300		22		2500		42		3700		62	
120	3		2	1320	33		17	2520	63		32	3720	93		47
160	4	3		1360	34	23		2560	64	43		3760	94	63	
200	5		3	1400	35		18	2600	65		33	3800	95		48
220		4		1420		24		2620		44		3820		64	
240	6			1440	36			2640	66			3840	96		
280	7	5	4	1480	37	25	19	2680	67	45	34	3880	97	65	49
320	8			1520	38			2720	68			3920	98		
340		6		1540		26		2740		46		3940		66	
360	9		5	1560	39		20	2760	69		35	3960	99		50
400	10	7		1600	40	27		2800	70	47		4000	100	67	
440	11		6	1640	41		21	2840	71		36	4040	101		51
460		8		1660		28		2860		48		4060		68	
480	12			1680	42			2880	72			4080	102		
520	13	9	7	1720	43	29	22	2920	73	49	37	4120	103	69	52
560	14			1760	44			2960	74			4160	104		
580		10		1780		30		2980		50		4180		70	
600	15		8	1800	45		23	3000	75		38	4200	105		53
640	16	11		1840	46	31		3040	76	51		4240	106	71	
680	17		9	1880	47		24	3080	77		39	4280	107		54
700		12		1900		32		3100		52		4300		72	
720	18			1920	48			3120	78			4320	108		
760	19	13	10	1960	49	33	25	3160	79	53	40	4360	109	73	55
800	20			2000	50			3200	80			4400	110		
820		14		2020		34		3220		54		4420		74	
840	21		11	2040	51		26	3240	81		41	4440	111		56
880	22	15		2080	52	35		3280	82	55		4480	112	75	
920	23		12	2120	53		27	3320	83		42	4520	113		57
940		16		2140		36		3340		56		4540		76	
960	24			2160	54			3360	84			4560	114		
1000	25	17	13	2200	55	37	28	3400	85	57	43	4600	115	77	58
1040	26			2240	56			3440	86						
1060		18		2260		38		3460		58					
1080	27		14	2280	57		29	3480	87		44				
1120	28	19		2320	58	39		3520	88	59					
1160	29		15	2360	59		30	3560	89		45				
1180		20		2380		40		3580		60					
1200	30			2400	60			3600	90						
1240	31	21	16	2440	61	41	31	3640	91	61	46				

NOTE: Max. radiator length depends on height and weight, see tables 7.1.1 - 2



SCE with side tapping



SCD with side tapping

Tapping designation

Fig. 7.2.1
Tapping designation

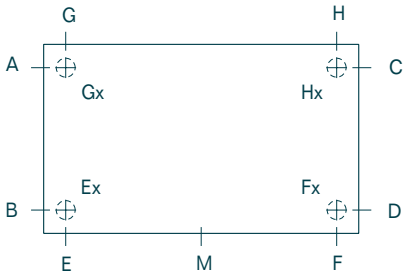
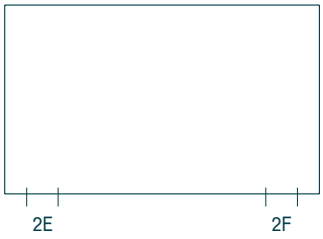


Fig. 7.2.2
Tapping designation, 2E and 2F tappings



NOTE: If flow and return are required at the same end radiators longer than 1800 mm will be factory fitted with an internal return tube to ensure optimum water flow

Side tappings A, B, C, D

Sizes

1/8", 3/8", 1/2", 3/4"

Position

Fig. 7.2.3
Side tappings

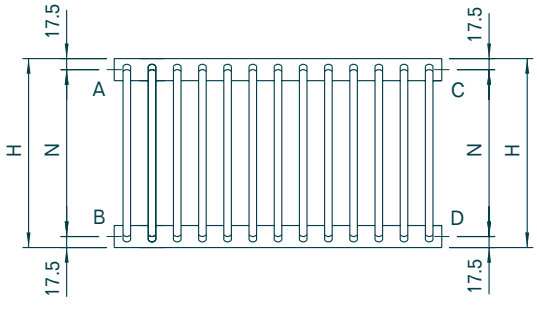


Fig. 7.2.4
SCE, profile

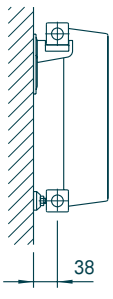
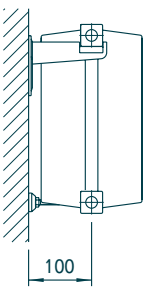


Fig. 7.2.5
SCD, profile



Centre distance N at tappings A, B, C, D is calculated as:
Radiator height H – 35 mm

B-D tapping combination

To ensure optimum water flow bottom headers are factory fitted with a diverter plate. Therefore, flow and return must be stated with order.

Top and bottom tappings
E, F, G, H, M, 2E, 2F

Sizes

1/8", 3/8", 1/2", 3/4"

Position

Fig. 7.2.6
Top and bottom tappings

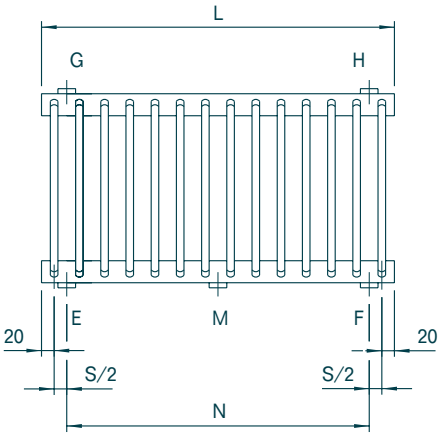


Fig. 7.2.7
SCE, profile

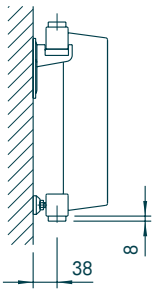
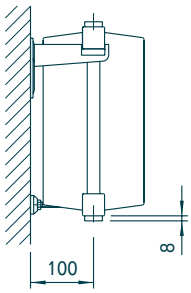


Fig. 7.2.8
SCD, profile



Centre distance N at tapping E - F or G - H is calculated as:
Radiator length L – element spacing S – 40 mm
M tapping is placed in the centre of length L

NOTE: Depending on tapping position, bottom or top headers are factory fitted with a diverter plate to ensure optimum flow. Therefore, flow and return must be stated with order.

Fig. 7.2.9
2E and 2F tappings

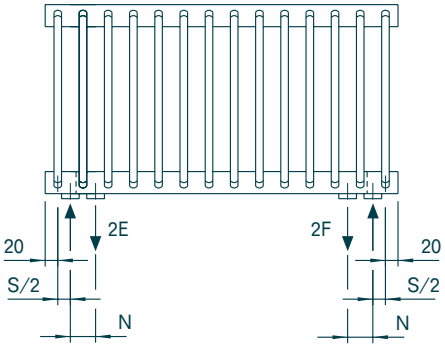


Fig. 7.2.10
SCE, profile

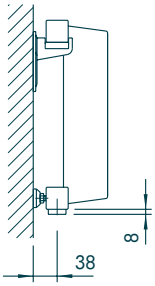
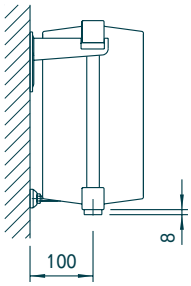


Fig. 7.2.11
SCD, profile



Centre distance N at tapping 2E and 2F corresponds to element spacing S

NOTE: Flow is always placed in the outer tapping. Radiator is factory fitted with a diverter plate between tappings to ensure optimum water flow.

Other option

Top and bottom tappings can be tailored to your requirements
Max. centre distance N is calculated as:
Radiator length L – element spacing S – 40 mm

INDIVIDUAL

Rear tappings Ex, Fx, Gx, Hx

VARIANT

Sizes

1/8", 3/8", 1/2", 3/4"

Position

Fig. 7.2.12
Rear tappings

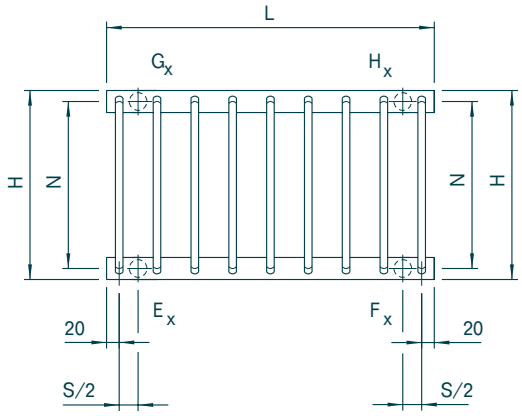


Fig 7.2.13
SCE, profile

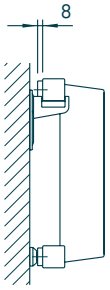
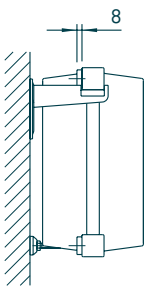


Fig 7.2.14
SCD, profile



Centre distance N at tapping Ex - Gx and Fx - Hx is calculated as:
Radiator height H – 35 mm

NOTE: Depending on tapping position, bottom or top headers are factory fitted with a diverter plate to ensure optimum flow. Therefore, flow and return must be stated with order.

NOTE: SCD with element spacing 40 mm cannot be supplied with rear tappings

Water resistance

Water resistance can be calculated as:

Example: SCD

Radiator height:	400 mm
Element spacing:	40 mm
Radiator length:	800 mm (= 20 elements)
Tappings:	1/2" A, D
Flow temperature tf :	90°C
Return temperature tr :	70°C
Output at 75/65/20°C:	1242 Watts

Water flow:

$$\frac{\text{Watts}}{(t_f - t_r) \times 1{,}163} =$$

$$\frac{1242}{20 \times 1{,}163} = 53.4 \text{ l/h}$$

Resistance incl. 1/2" tappings: 0.54 mm WG

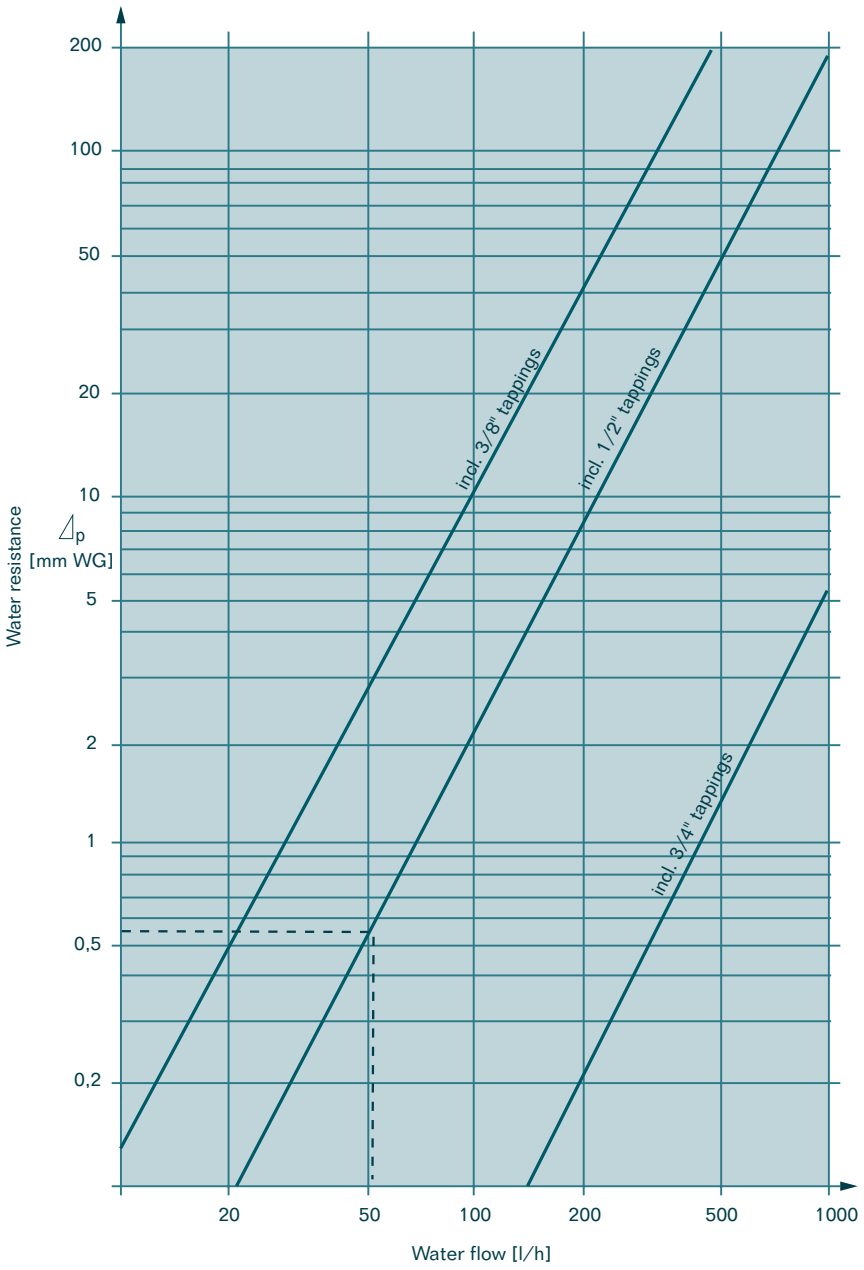


Fig. 7.2.15
Water resistance SCE and SCD radiators with various tapping sizes

Brackets SB20 and SB82

Accessory for

SCE (bracket SB20) and SCD (bracket SB82). Supplied unless otherwise specified.

Construction

Bracket in mild steel in same colour as radiator with nylon inserts for noise suppression. Adjustable spacer is screwed into lower header.
Coach screws, wall plugs and washers are included.

Fig. 7.3.1
Bracket SB20

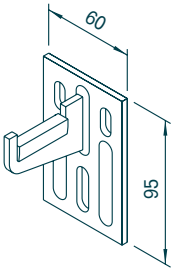


Fig. 7.3.2
Bracket SB20

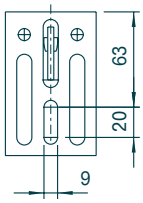
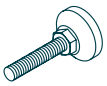


Fig. 7.3.3
Spacer



NOTE: Bracket SB82 has same backplate with longer outreach

Dimensions

Fig. 7.3.4
SCE, profile

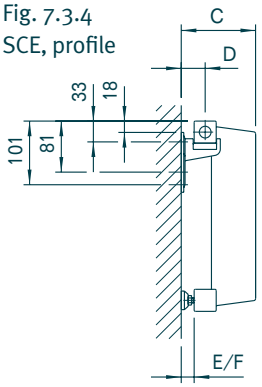


Fig. 7.3.5
SCD, profile

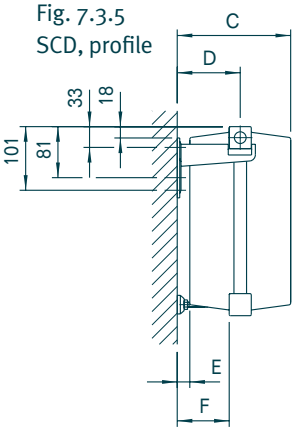


Fig. 7.3.6
Spacer

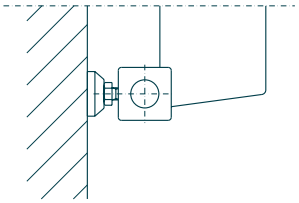


Table 7.3.7
Wall dimensions for brackets SB20 and SB82

Model	Bracket	C, mm	D, mm	E, mm	F, mm
SCE	SB20	118	38	-	20
SCE	SB82	180	100	20	82

Table 7.3.8
No. of brackets and spacers

No. of brackets/ spacers	Element spacing					
	40 mm		60 mm		80 mm	
	Elements	L, mm	Elements	L, mm	Elements	L, mm
2/2	2-25	80-1000	2-17	100-1000	2-13	120-1000
3/2	26-50	1040-2000	18-33	1060-1960	14-25	1080-1960
4/3	51-75	2040-3000	34-50	2020-2980	26-38	2040-3000
5/4	76-115	3040-4600	51-77	3040-4600	39-58	3080-4600

Other wall distance

Brackets SB40 and SB50 for SCE and SB102 and SB122 for SCD. Setting out dimensions, see table 7.3.9

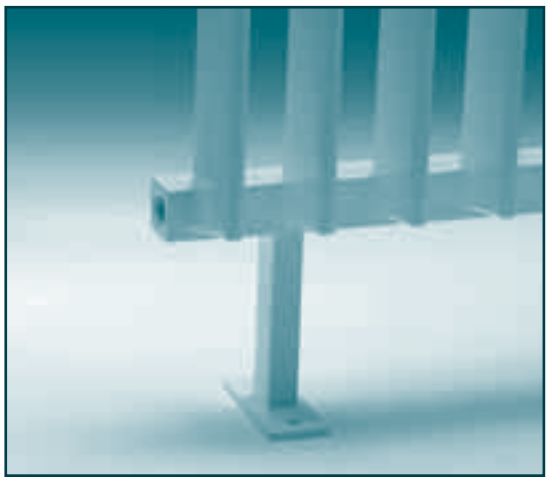
VARIANT

Table 7.3.9
Wall dimensions for brackets SB40, SB50, SB102 and SB122

Model	Bracket	C, mm	D, mm	E, mm	F, mm
SCE	SB40	138	58	40	40
	SB50	148	68	50	50
SCD	SB102	200	120	40	102
	SB122	220	140	60	122

Fixed feet SF124

VARIANT



SCE with feet SF124

Accessory for

SCE and SCD
NOTE: Limitations in radiator height, see table 7.3.10

Table 7.3.10
Limitations in radiator height

Radiator height H mm	Limitations
300 - 600	-
700 - 3000	Top restraint by wall brackets is required (supplied)

Application

For use where wall mounting is not possible, e.g. in front of glazing

Construction

20 x 30 x 2 mm steel tube with foot plate of 5 mm steel. Feet are welded onto the radiator.

Height

124 mm from floor to lower edge of radiator

Colour

Same as radiator

Dimensions

Fig. 7.3.11
Fixed feet SF124

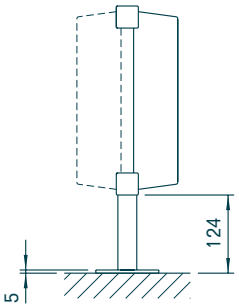
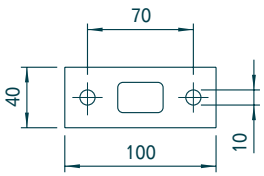


Fig. 7.3.12
Foot plate for fixed feet SF124, plan view



Position and no. of feet

Fig. 7.3.13
Radiator with 2 feet

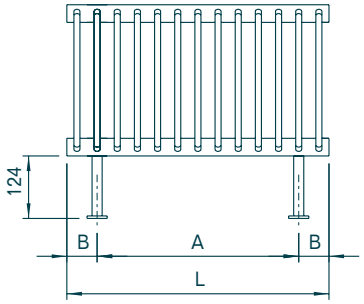


Fig. 7.3.14
Radiator with 3 feet

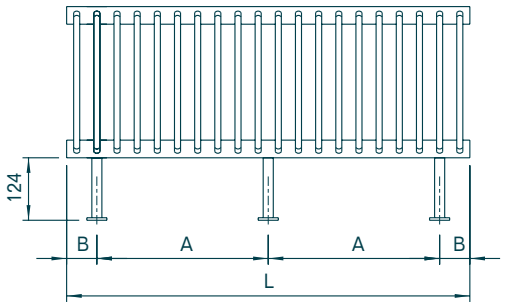
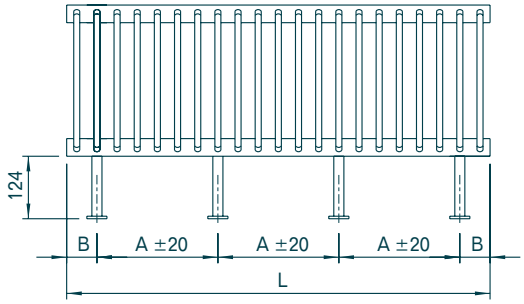


Fig. 7.3.15
Radiator with 4 feet



Feet will be welded under an element or between 2 elements.
Therefore, distance A can vary ± 20 mm.
NOTE: Distance B depends on tapping combination, see table 7.3.16

Table 7.3.16
Distance B at different tapping combinations

Element spacing, mm	Tapping combination		
	A, B, C, D	E, F	2E, 2F
40	60	100	140
60	80	140	200
80	100	180	260

Table 7.3.17
Position and no. of feet

		Element spacing					
		40 mm		60 mm		80 mm	
No. of feet	A, mm	Elements	L, mm	Elements	L, mm	Elements	L, mm
2	L-2B	2-40	80-1600	2-27	100-1600	2-20	20-1560
3	(L-2B)/2	41-70	1640-2800	28-47	1660-2800	21-35	1640-2760
4	(L-2B)/3	71-115	2840-4600	48-77	2860-4600	36-58	2840-4600

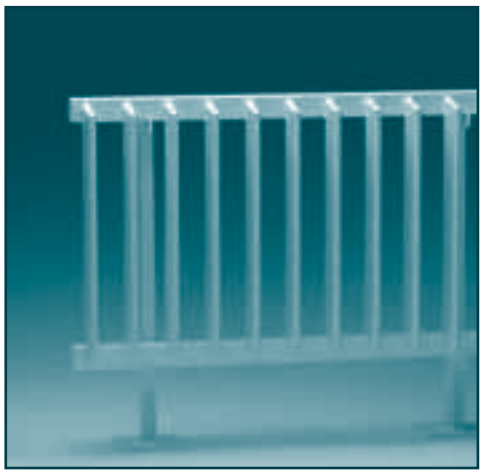
Other heights

Fixed feet in heights from 80 - 200 mm

INDIVIDUAL

Free standing feet SH124

VARIANTE



SCE with feet SH124

Accessory for

SCE and SCD
NOTE: Max. radiator height 800 mm

Application

For use where wall mounting is not possible; in front of glazing or where possible removal of the radiator is desired, (e.g. when foot plate is concealed within or below the floor)

Construction

20 x 40 x 3 mm steel tube with 5 mm foot plate. Welded-on arms with nylon inserts for noise suppression. Top of tube is raked to match radiators.

Height

124 mm from floor to lower edge of radiator

Dimensions

Fig. 7.3.18
Feet SH124, profile

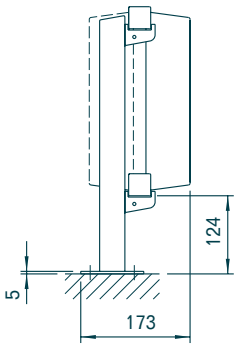


Fig. 7.3.19
Foot plate for feet SH124, plan view

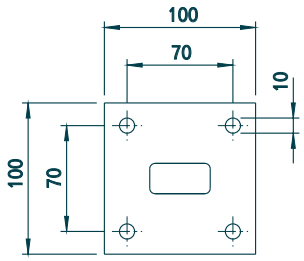


Table 7.3.20
No. of feet

No. of feet	Element spacing					
	40 mm		60 mm		80 mm	
	Elements	L, mm	Elements	L, mm	Elements	L, mm
2	2-40	80-1600	2-27	100-1600	2-20	20-1560
3	41-70	1640-2800	28-47	1660-2800	21-35	1640-2760
4	71-115	2840-4600	48-77	2860-4600	36-58	2840-4600

NOTE: SH124 can be positioned as required. It is, however, recommended to use table 7.3.17 and figs. 7.3.13 - 15 as a guide.

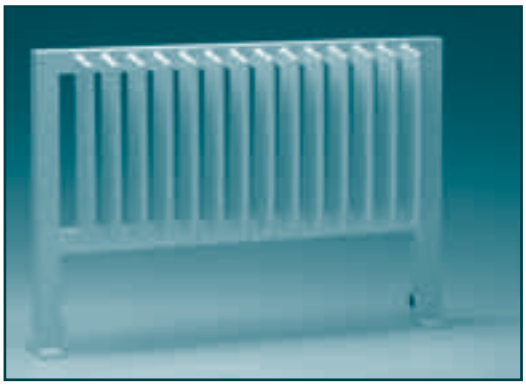
Optional extra

Extended feet for use through e.g. raised floors

INDIVIDUAL

Waterway Feet SK150

VARIANT



SCE with feet SK150

Accessory for

SCE and SCD
NOTE: Max. radiator height H 800 mm

Application

For use where wall mounting is not possible, e.g. in front of glazing. Tappings at bottom inside of feet for less visible pipework. Also suited for raised flooring where pipework is placed under the floor.

Construction

Feet are made from 35 x 35 x 2.5 mm steel tubes to form a frame around the radiator. Welded-on 5 mm foot plate. Water flow through feet with tappings close to floor.

Height

150 mm from floor to lower edge of radiator

Dimensions

Fig. 7.3.21
Feet SK150

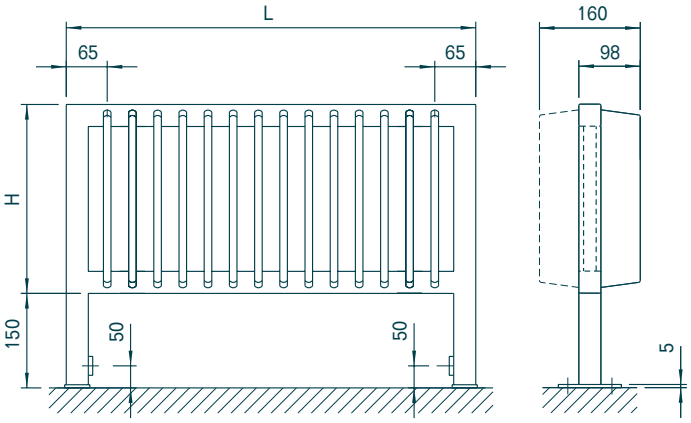
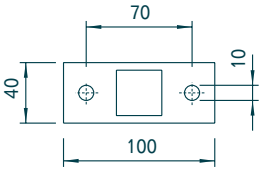


Fig. 7.3.22
Feet SK150, profile

Fig. 7.3.23
Foot plate for feet SK150, plan view



SK150 increases length of radiator by 90 mm
Radiator length L is calculated as: Element spacing S x (no. of elements – 1) + 130 mm.

No. of elements for a given radiator length is calculated as:
(Radiator length L – 130)/Element spacing S + 1

Tappings

3/8", 1/2", facing inwards

Position and no. of feet

Depending on length the radiator will be fitted with non water filled intermediate feet, matching the waterway feet,
see figs. 7.3.24 -25 and table 7.3.26

Fig. 7.3.24
Radiator with 3 feet

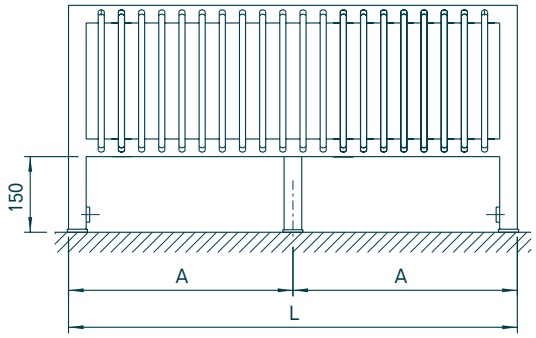


Fig. 7.3.25
Radiator with 4 feet

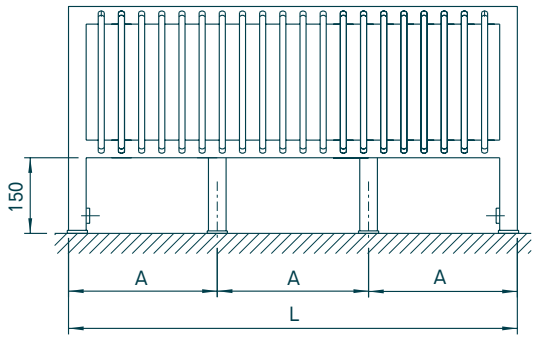


Table 7.3.26
Position and no. of feet

		Element spacing					
		40 mm		60 mm		80 mm	
No. of feet	A, mm	Elements	L, mm	Elements	L, mm	Elements	L, mm
2	-	2-40	170-1690	2-27	190-1690	2-20	210-1650
3	L/2	41-70	1730-2890	28-47	1750-2890	21-35	1730-2850
4	L/3	71-115	2930-4570	48-77	2950-4570	36-58	2930-4530

Optional extras

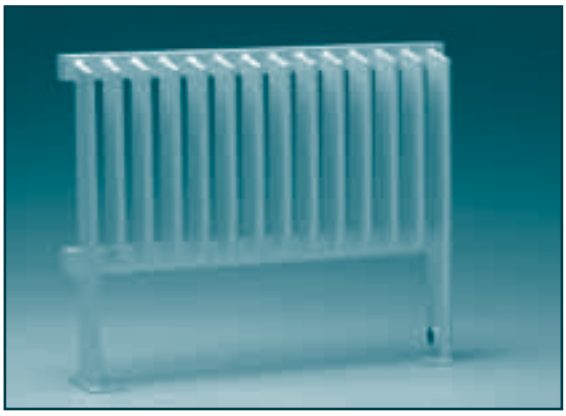
- Waterway feet in heights from 100 - 300 mm
- Built-in 3/8" valve in foot with pipework through floor to room below
- Extended feet for use through e.g. raised floors

INDIVIDUAL

NOTE: Top restraint is required for total heights exceeding 1000 mm

Waterway Feet SE150

VARIANT



SCE with feet SE150

Accessory for

SCE and SCD
NOTE: Max. radiator height H 800 mm

Application

For use where wall mounting is not possible, e.g. in front of glazing. Tappings at bottom inside of feet for less visible pipework. Also suited for raised flooring where pipework is placed under the floor.

Construction

The two outside elements are extended and function as waterway feet. Welded-on 5 mm foot plate.

Height

150 mm from floor to lower edge of radiator

Dimensions

Fig.7.3.27
Feet SE150

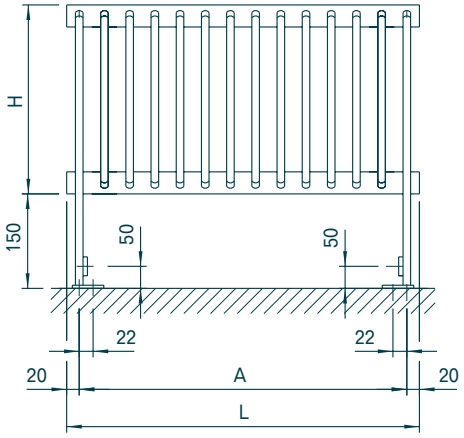


Fig. 7.3.28
SCE, Feet SE150, profile

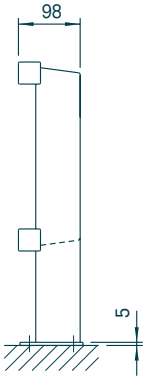


Fig. 7.3.29
Foot plate for feet SE150, plan view

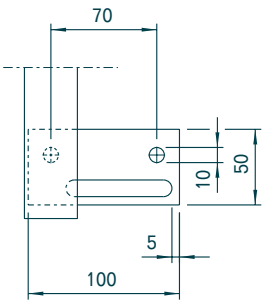


Fig. 7.3.30
SCD, feet SE150, profile

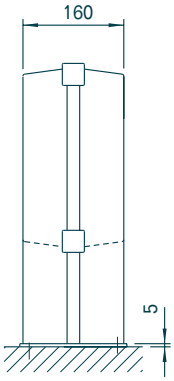
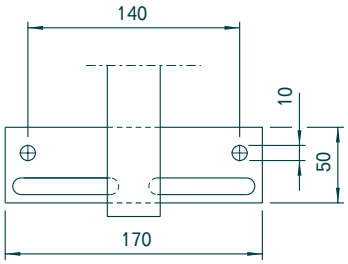


Fig. 7.3.31
Foot plate for feet SE150, plan view



Tappings

3/8", 1/2", facing inwards

Position and no. of feet

Radiators longer than 1600 mm will be fitted with intermediate feet, see fig. 7.3.32

Fig. 7.3.32
Radiator with 3 feet

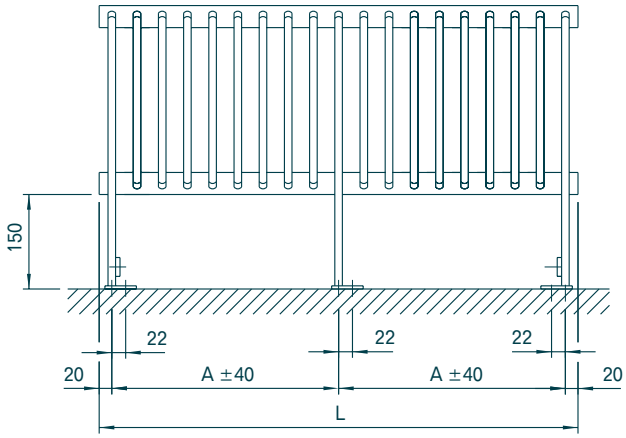


Table 7.3.33
Position and no. of feet

		Element spacing					
		40 mm		60 mm		80 mm	
No. of feet	A, mm	Elements	L, mm	Elements	L, mm	Elemente	L, mm
2	L-40	5-40	200-1600	5-27	280-1600	5-20	360-1560
3	(L-40)/2	41-70	1640-2800	28-47	1660-2800	21-35	1640-2760

NOTE: If 3 feet are required, the intermediate foot can only be placed symmetrically if radiator has an odd no. of elements. For positioning of feet on radiators longer than 2800 mm, please consult Hudevad.

Optional extras

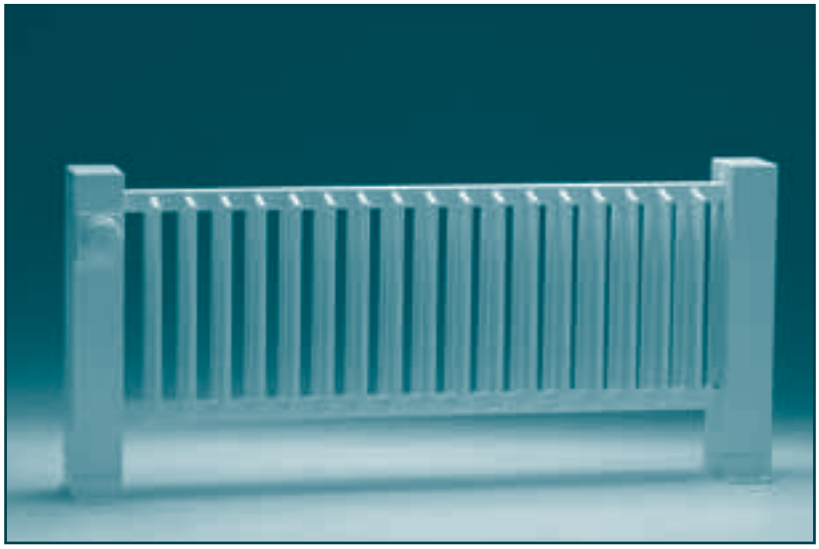
Waterway feet in heights from 100 - 300 mm
Extended feet for use through e.g. raised floors

INDIVIDUAL

NOTE: Top restraint is required for total heights exceeding 1000 mm

Mounting pillars SC477, SC478, SC479,SC480, SC481, SC482

VARIANT



SCD with mounting pillars

Accessory for

SCE and SCD
NOTE: Max. radiator height 800 mm

Application

For use where wall mounting is not possible, e.g. in front of glazing or where pipework is to be concealed as much as possible. Pipework through floor in mounting pillars. Optional built-in valve.

Construction

Mounting pillars consist of two parts. An internal upright for mounting the radiator and an outer casing to conceal pipework and valves.

Height

Supplied for radiators in heights 300-800 mm
124 mm from floor to lower edge of radiator

Colour

Same as radiator

Designs

Fig. 7.3.34
Casing for mounting pillar

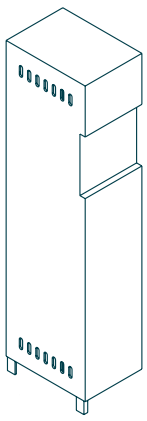


Fig. 7.3.35
Upright for mounting pillar

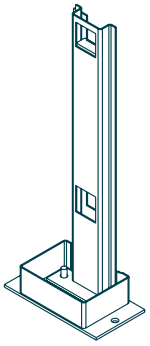


Fig. 7.3.36
Principle of application for SC477

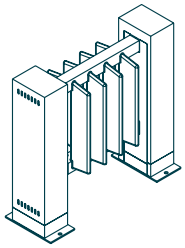
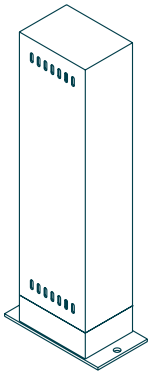


Fig. 7.3.37
SC477. End pillar. Same unit is used as right or left end pillar



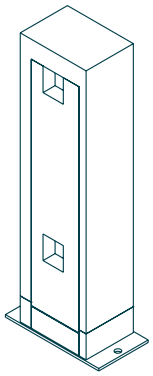
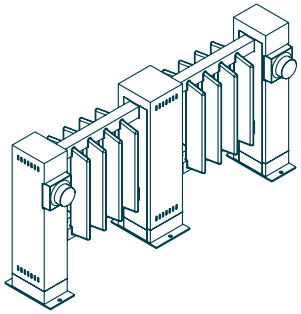


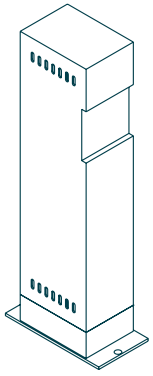
Fig. 7.3.38
Principle of application for SC478, SC480 and SC479

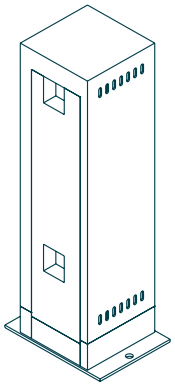
Fig. 7.3.39
SC478. Left end pillar for built-in valve

Fig. 7.3.40
SC480. Central pillar, for 2 radiators

Fig. 7.3.41
SC479. Right end pillar for built-in valve







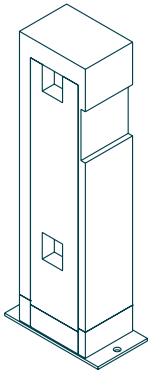
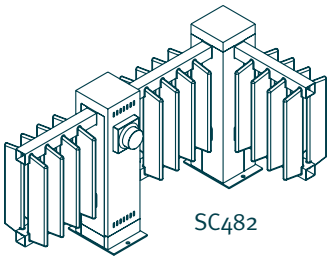


Fig. 7.3.42
Principle of application for SC481 and SC482

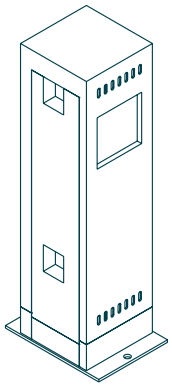
Fig. 7.3.43
SC481. Central pillar for 2 radiators and built-in valve

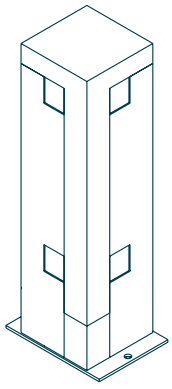
Fig. 7.3.44
SC482. 90° corner pillar



SC482

SC481





Dimensions

Fig. 7.3.45
Dimensions when using end pillars SC477, SC478, SC479

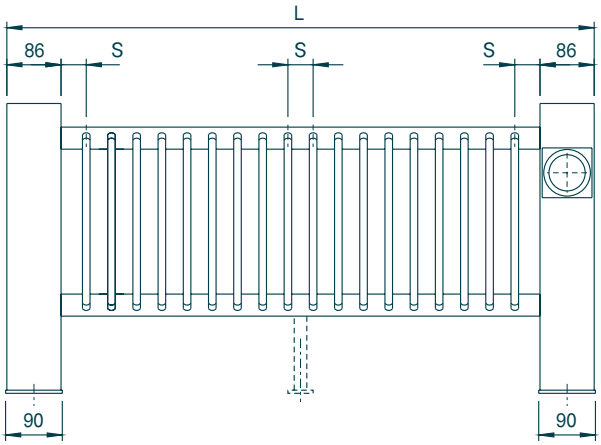
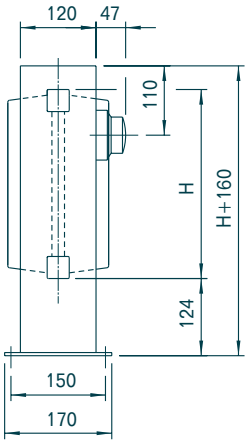


Fig. 7.3.46
Dimensions when using end pillars SC477, SC478, SC479, SC479, profile

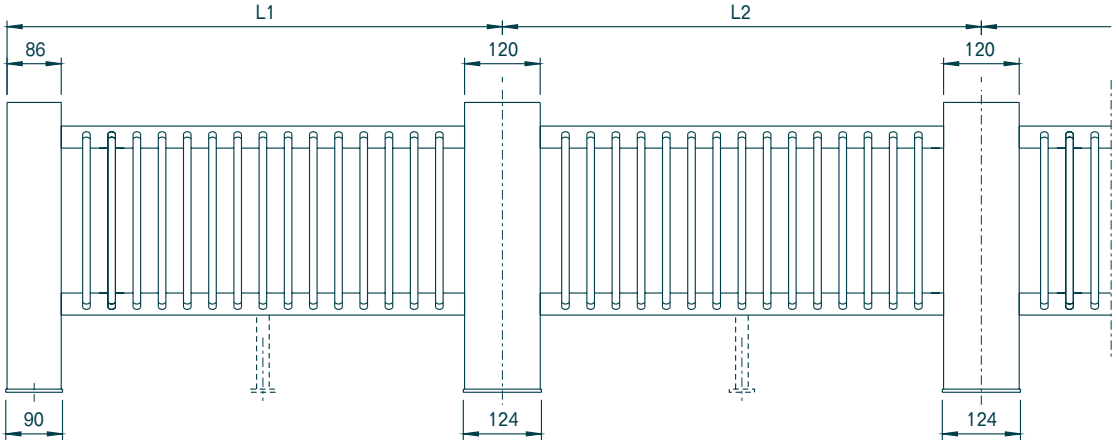


Radiator length L with mounting pillars is calculated as:
Element spacing S x (no. of elements + 1) + 172 mm

No. of elements for a given radiator length is calculated as:
(Length L - 172)/Element spacing S - 1

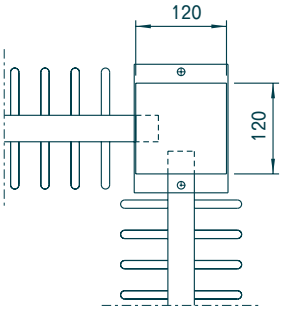
NOTE: For radiators longer than 2600 mm one foot SF 124 will be placed at the centre of radiator

Fig. 7.3.47
Dimensions when joining radiators using end and central pillars



When joining several radiators the lengths L1 and L2 are calculated as:
L1 = no. of elements S x (no. of elements E + 1) + 146
L2 = no. of elements S x (no. of elements E + 1) + 120

Fig. 7.3.48
Corner joining of radiators using SC482, plan view

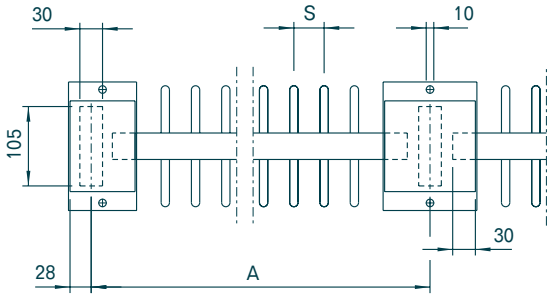


NOTE: Corner pillar has same cut out for pipe as central pillar, see fig. 7.3.49

Pipework

The foot plate is factory fitted with a cut out for pipe entry, see fig. 7.3.49. The radiator is mounted on the uprights, pipe connection made and the casing of the mounting pillar is pushed down over the upright.

Fig. 7.3.49
End and central pillar with position of pipe entry cut out, plan view

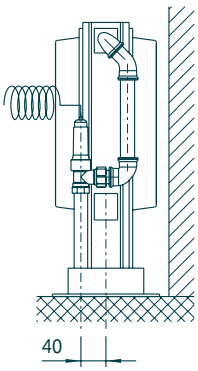


Spacing A is calculated as:
Element spacing S x (no. of elements E + 1) + 118

Built-in valve

Mounting pillars SC478, SC479 & SC481 have cut outs for thermostatic head Danfoss type RA 5062. The valve is angled Danfoss RA-N 10/15. When fitting built-in valve flow pipe should be offset 40 mm from centre line of pillar when using standard fittings, see fig. 7.3.50
NOTE: Thermostatic head and valve are supplied separately by Hudevad

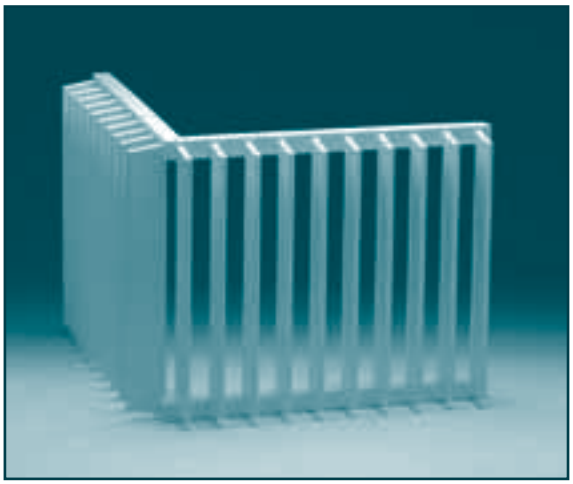
Fig. 7.3.50
Pipework in mounting pillar with built-in valve



Flow is displaced 40 mm from centre line of pillar. Return can be placed in centre line of pillar.

Angled radiators

INDIVIDUAL



SCE angled

Description

All SCE and SCD radiators can be supplied angled.
Tapping designation is the same as for straight radiators.

Min. internal angle V: 45°
Max. external angle V: 270°
Max. 4 angles per radiator
Max. radiator size: Angled radiators must be able to be placed within an area of 2000 x 6000 mm
Max. weight: 250 kg

Fig. 7.5.1
External angle

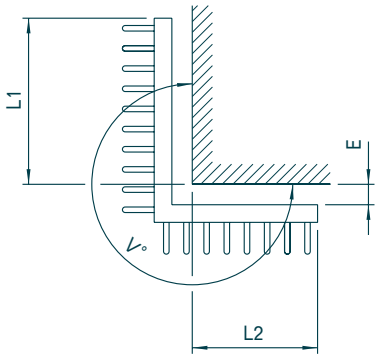


Fig. 7.5.2
Internal angle

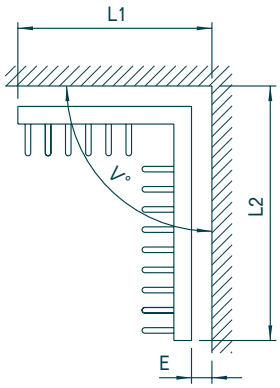


Fig. 7.5.3
2 internal angles

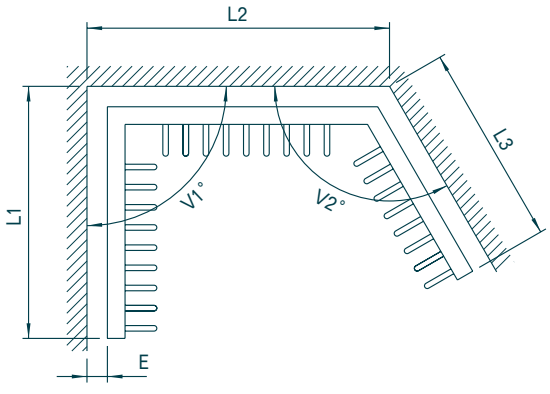
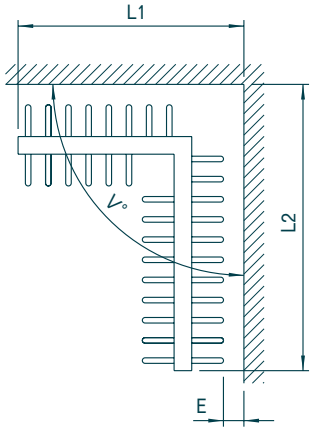


Fig. 7.5.4
Internal angle



Ordering requirements

Please state:
- The wall length L1, L2 etc. in mm
- The angle V with 0.1° accuracy
- The wall distance E in mm
- Clear reference to project (project no. or order no., pos./ref. no. etc.)

NOTE: It is essential to base all dimensions on finished wall surfaces

Template

Alternatively a template (not paper) should be made.
Please indicate the following on upper surface of template:
- Profile of the wall
- E (wall distance)
- Starting/ending point of radiator
- Clear indication of radiator and wall position
- Radiator model (SCE or SCD)
- Clear reference to project (project no. or order no., pos./ref. no. etc.)

Output calculation

NOTE: The exact no. of elements is determined by Hudevad taking ordered angle and element spacing into consideration

Mounting

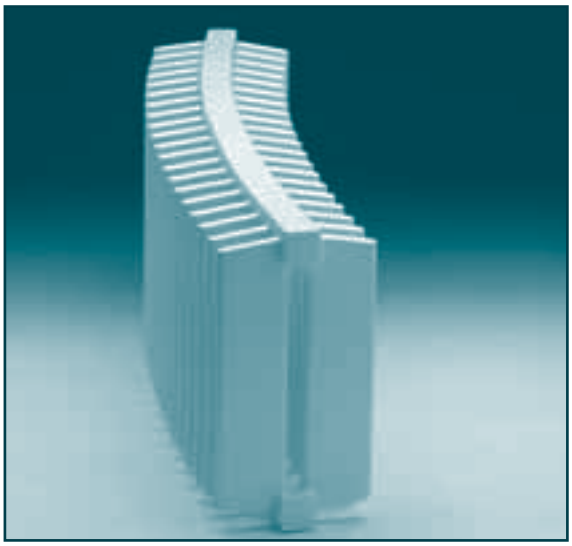
Wall or floor mounted, see pages 7.3.1 - 12

NOTE: Unless otherwise specified, the radiator is supplied with bracket SB20 (SCE) or SB82 (SCD), see page 7.3.1. If alternative wall distance is required, please consult Hudevad.

NOTE: No. of brackets or feet will be individually determined by Hudevad

Curved radiators

INDIVIDUAL



SCD curved

Description

All SCE and SCD radiators can be supplied curved.
Tapping designation is the same as for straight radiators.

Min. radius: 1400 mm
Max. radiator size: Curved radiators must be able to be placed within an area of 2000 x 6000 mm
Max. weight: 250 kg

Fig. 7.5.5
Internal curve

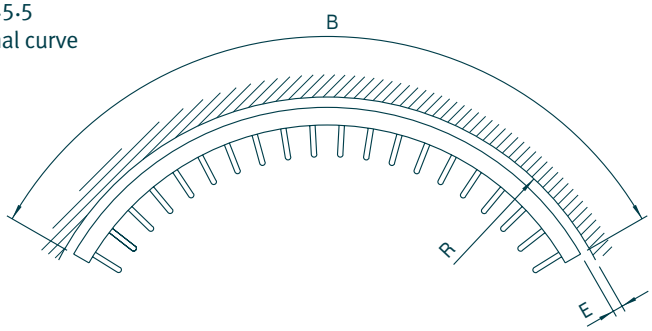


Fig. 7.5.6
External curve

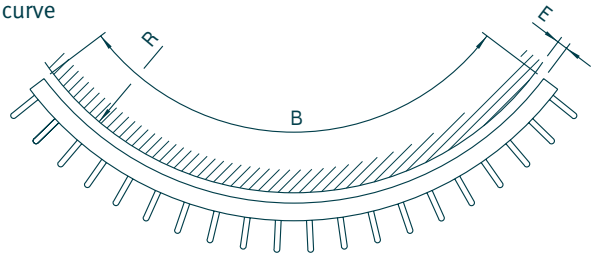
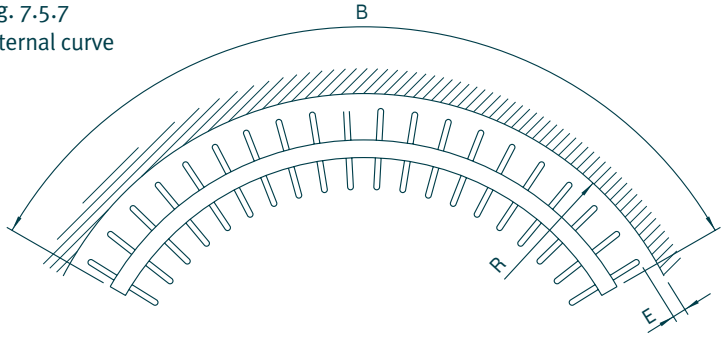


Fig. 7.5.7
Internal curve



Ordering requirements

Please state:
- Wall length B in mm
- The wall radius R in mm
- The wall distance E in mm
- Clear reference to project (project no. or order no., pos./ref.no. etc.)

NOTE: It is essential to base all dimensions on finished wall surfaces

Template

Alternatively a template (not paper) should be made.
Please indicate the following on upper surface of template:
- Profile of the wall
- E (wall distance)
- Starting/ending point of radiator
- Clear indication of radiator and wall position
- Radiator model (SCE or SCD)
- Clear reference to project (project no. or order no., pos./ref. no. etc.)

Output calculation

When calculating the radiator output the length of the horizontal header and not the length of the wall is to be used

Mounting

Wall or floor mounted, see pages 7.3.1 - 12

NOTE: Unless otherwise specified, the radiator is supplied with bracket SB20 (SCE) or SB82 (SCD), see page 7.3.1. If alternative wall distance is required, please consult Hudevad.

NOTE: No. of brackets or feet will be individually determined by Hudevad

Accessories

SC

Air vent	1/8”	
Air vent with O-ring	3/8”, 1/2”. Supplied when ordering a 3/8” or a 1/2” air vent.	
Air vent with O-ring and revolving spout	3/8”, 1/2”	
Plug with O-ring	3/8”, 1/2”	
Square key for air vents		

Below please note standard specification clauses which give an accurate technical description of the product.

The texts relate to the most common products in this section of the catalogue and are stated in the same order.

SC

"Hudevad column radiator, model SC, made from 35 x 35 x 2.5 mm steel header tubes, with 70 x 11 x 1.9 mm vertical flat tube elements raked at top and bottom. 7 x 17 mm water connection between headers and elements. Element spacing ... mm. Electrophoresis primed and ready-painted with oven dried powder coat or wet coat. Surface treatment in accordance with DIN 55900 and BS EN 442. Test and operating pressure 10, 7.7 bar respectively."

Fixed feet SF124 (pages 7.3.2 - 3)

"Welded-on feet, height 124 mm, made from 20 x 30 x 2 mm steel tube and 5 mm foot plate"

Free standing feet SH124 (page 7.3.4))

"Free standing feet SH124 made from 20 x 40 x 2 mm steel with 5 mm foot plate. Nylon inserts for noise suppression."

Waterway feet SK150 (pages 7.3.5 - 6)

"Closed frame made from 35 x 35 x 2.5 mm steel tube for floor mounting, integrated water connection and tappings close to 5 mm foot plate."

Waterway feet SE150 (pages 7.3.7 - 8)

"Feet designed as extension of the outer flat tube elements with integrated water connection and tappings close to 5 mm foot plate."

Mounting pillar SC (pages 7.3.9 - 12)

"Mounting pillar to conceal pipework and valve within the casing."

Order guide

When stating the size and type of radiator please use the following format: Model element spacing height / depth - length. All measurements are to be stated in mm.
Example: For a SCD, element spacing 60 mm, height 600 mm, depth 98 mm, length 2200 mm please state:
SCE60 600/98-2200

Specification of tappings: Size and position are specified in pairs.
Example: SCE60 600/98-2200, 1/2B 1/2D 1/8C
Please state flow and return position.

Technical data

Construction	Column radiator made from 35 x 35 x 2.5 mm steel header tubes, with 70 x 11 x 1.9 mm vertical flat tube elements raked at top and bottom.
Function	Water distribution through horizontal headers at top and bottom. The water passes through the vertical flat tube elements.
Pressure test	All radiators are pressure tested at 10 bar. Max. operating pressure 7.7 bar.
Surface treatment	Pretreatment: • Degreasing and iron-phosphating. Priming: • Electrophoresis with water based paint in pale grey colour. Ready-painting: • White RAL 9010: Powder EP/PE, gloss approx. 40%. • Other colours: Powder painted as above and wet painted with high degree of total solids, gloss approx. 40%. • Surface treatment in accordance with DIN 55900 and BS EN 442.

Maintenance

Ready-painting of primed radiators	Paint suitable for steel surfaces should be used
Repair of powder or wet coated radiators	Water based acrylic paint obtained from a decorating wholesaler can be used
Recoating of powder or wet coated radiators	After cleaning, powder or wet coated radiators can be recoated with the following: Powder coat: EP/PE powder Wet coat: Synthetic, non yellowing coat. Water based or similar acrylic paint Hardening: 150°C curing temperature for 10 min.
Venting	Venting of radiators is only necessary if the heating system has been drained or if the radiators for some reason are noisy from air in the system. The flow valve must be open when venting. The air vent should be opened cautiously, while a cloth is held in front of it to prevent splashing. When air is vented and only a water jet is emitted, close the vent.
Cleaning	Light household cleaning materials can be used for painted surfaces. Abrasive materials such as scouring powder should not be used.