HUDEVAD
RADIATOR DESIGN

SC LOWLINE

Datasheet

INDEX

DESCRIPTION

The Hudevad SC radiator is the perfect heating source for making a statement. The radiator has a high-end and timeless design that is highly customizable for the perfect fit in any environment. The radiator doesn't block the light, as its flat elements are designed for giving the room spaciousness and the impression of 'air'. The SC radiator is ideal for many applications due to its unique design that blends into the room architcture without stealing focus.

Material	Headers: Square steel tube 35 x 35 x 2.5 mm to EN 10305-5 Flat tube elements: Steel tube 70 x 11 x 1.9 mm to EN 10305-5
Test pressure	10 bar
Max. operating pressure	7.7 bar in accordance with EN 442
Max. operating temp.	95°C
Surface treatment	Pretreatment: Degreasing and passivation Priming: Primed with water based paint in pale grey Surface treatment in accordance with DIN 55900 and EN 442
Element spacing	40 and 60 mm
Length	80-3000 mm in increments of 40 and 60 mm, depending of element spacing.
Height	300 mm
Depth	SCE: 98 mm. SCD: 160 mm
Tappings	1/2" standard
Installation	Wall or floor mounted. Brackets, air vents and plugs are included.
Optional extras	Fixed feet SF124 Free standing feet SH124 Waterway feet SK150 Waterway feet SE150
Colour	Powder coated in white RAL 9016. Gloss 70 Option: Painted in other standard RAL colours. For more information, please see the Hudevad Colour brochure at www.hudevad.com

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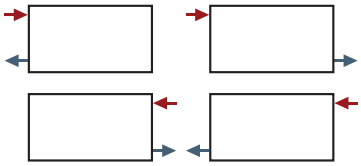
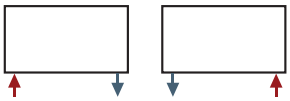
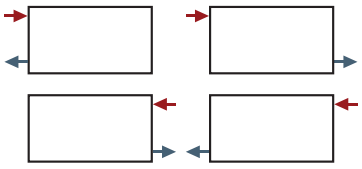
TAPPING OVERVIEW

Tapping type	Tapping possibilities
ABCD (4 tap)	
FF (6 tap)	
EE (6 tap)	
E/F No valve	

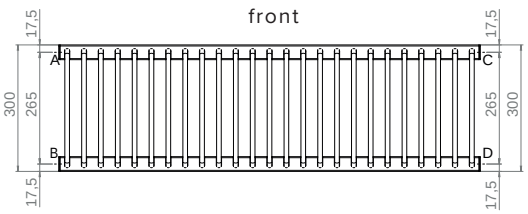
TAPPING POSSIBILITIES - ABCD - Side tappings



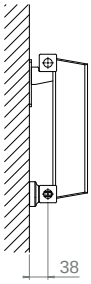
View from the front

Drawing 4.1

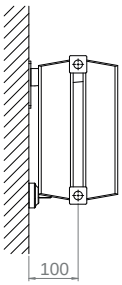
View from the front



SCE, profile



SCD, profile



Centre distance N 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 when ordering.

Note: For lengths greater than 1800 mm, the flow and return must always be indicated when ordering

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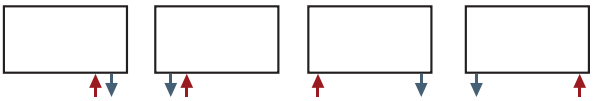
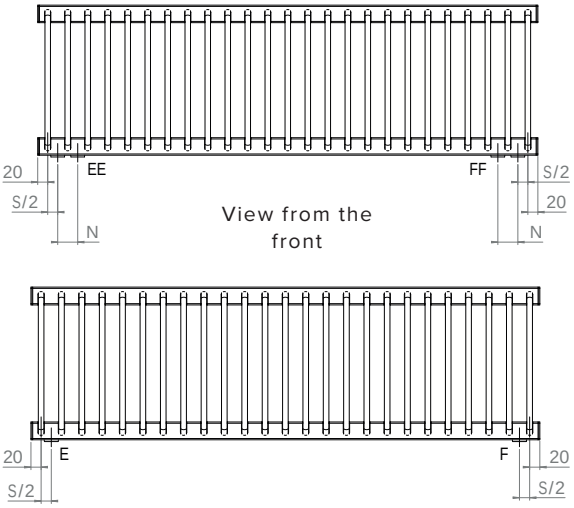
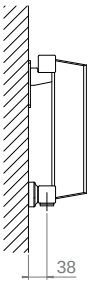
TAPPING POSSIBLITIES - EE / FF and E/F - Underside tappings



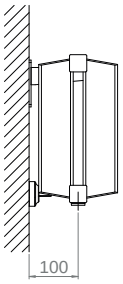
Drawing 5.1



SCE, profile



SCD, profile

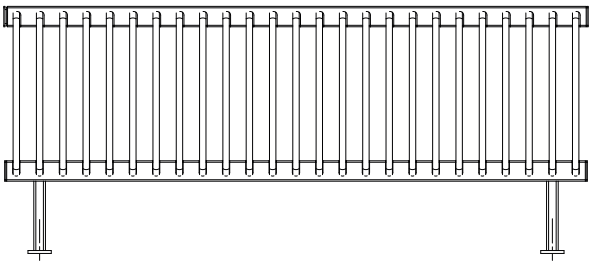


Centre distance N at tapping EE/FF corresponds to element spacing S
Center distance N at tapping EF/FE is calculated: Radiator lenght L - element spacing - 40 mm

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

ILLUSTRATION

Drawing 5.2



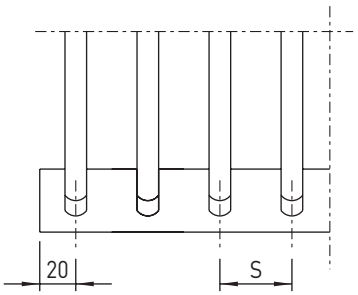
DIMENSIONS

Radiator length 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

Length table: see page 7

Drawing 6.1



Element spacing S = 40 or 60 mm

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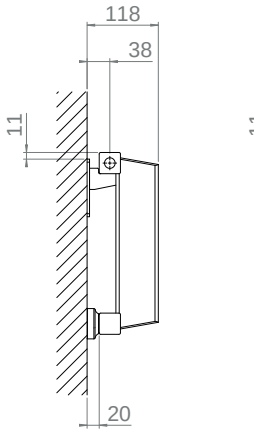
LENGTH AND ELEMENT SPACING TABLE

Length	Element spading, mm		Length	Element spading, mm		Length	Element spading, mm	
mm	40	60	mm	40	60	mm	40	60
80	2		**1280**	32		**2480**	62	
100		2	**1300**		22	**2500**		42
120	3		**1320**	33		**2520**	63	
160	4	3	**1360**	34	23	**2560**	64	43
200	5		**1400**	35		**2600**	65	
220		4	**1420**		24	**2620**		44
240	6		**1440**	36		**2640**	66	
280	7	5	**1480**	37	25	**2680**	67	45
320	8		**1520**	38		**2720**	68	
340		6	**1540**		26	**2740**		46
360	9		**1560**	39		**2760**	69	
400	10	7	**1600**	40	27	**2800**	70	47
440	11		**1640**	41		**2840**	71	
460		8	**1660**		28	**2860**		48
480	12		**1680**	42		**2880**	72	
520	13	9	**1720**	43	29	**2920**	73	49
560	14		**1760**	44		**2960**	74	
580		10	**1780**		30	**2980**		50
600	15		**1800**	45		**3000**	75	
640	16	11	**1840**	46	31			
680	17		**1880**	47				
700		12	**1900**		32			
720	18		**1920**	48				
760	19	13	**1960**	49	33			
800	20		**2000**	50				
820		14	**2020**		34			
840	21		**2040**	51				
880	22	15	**2080**	52	35			
920	23		**2120**	53				
940		16	**2140**		36			
960	24		**2160**	54				
1000	25	17	**2200**	55	37			
1040	26		**2240**	56				
1060		18	**2260**		38			
1080	27		**2280**	57				
1120	28	19	**2320**	58	39			
1160	29		**2360**	59				
1180		20	**2380**		40			
1200	30		**2400**	60				
1240	31	21	**2440**	61	41			

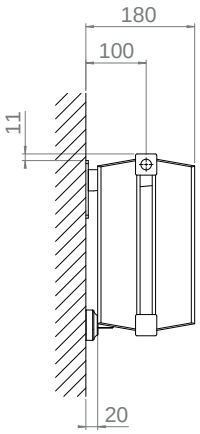
SC WALL MOUNTED

Drawing 8.1

SC single (SCE), profile



SC double (SCD), profile

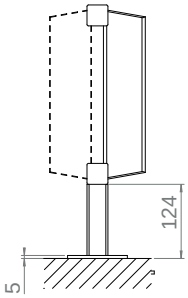


No. of brackets and spacers	Element spacing			
	40 mm		60 mm	
	Elements	L, mm	Elements	L, mm
2/2	2-25	80-1000	2-17	100-1000
3/2	26-50	1040-2000	18-33	1060-1960
4/3	51-75	2040-3000	34-50	2020-2980

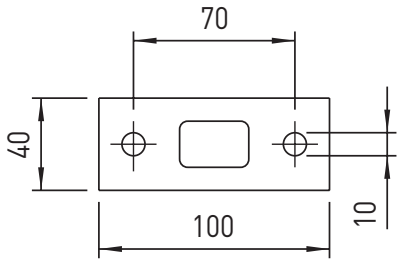
SC FLOOR MOUNTED - FIXED FEET SF124

Drawing 8.2

SF124 feet, profile



Foot plate for SF124 feet, top view

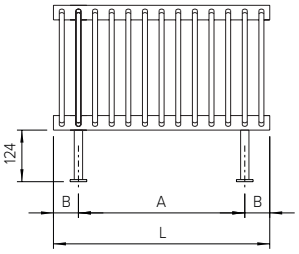


Application	For use where wall mounting is not possible, e.g. in front of glazing
Construction	20 x 30 x 2 mm steel tube with foot plate of 5 mm steel Feet are welded onto the radiator
Height	124 mm from upper floor surface to lower edge of radiator
Colour	Same as radiator

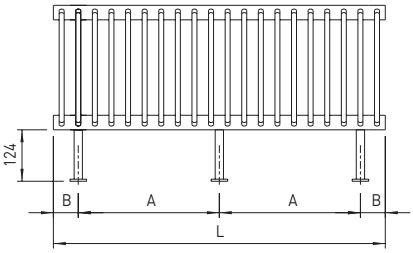
VIEW FROM THE FRONT

Drawing 9.1

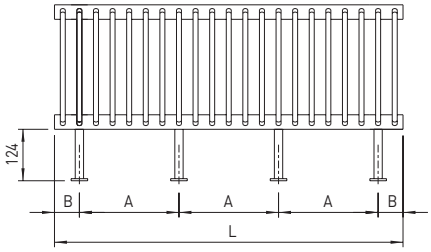
Radiator with 2 SF124 feet



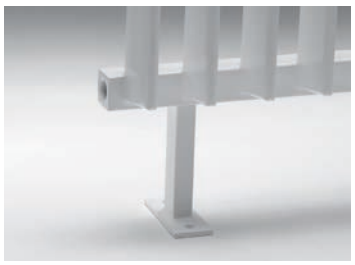
Radiator with 3 SF124 feet



Radiator with 4 SF124 feet



SCE with fixed feet SF124



Distance B at different tapping combinations

Element spacing, mm	Tapping combinations	
	ABCD	**EE/FF and E/F**
40	60	140
60	80	200

POSITION AND NO. OF FEET

		Element spacing			
		40 mm		60 mm	
No. of feet	**A, mm**	**Elements**	**L, mm**	**Elements**	**L, mm**
2	L - 2B	2-40	80-1600	2-27	100-1600
3	(L - 2B)/2	41-70	1640-2800	28-47	1660-2800
4	(L - 2B)/3	71-75	2840-3000	48-50	2860-2980

Feet will be welded under an element or between 2 elements. Therefore, distance A may vary.
Distance B depends on tapping combination, see table above.

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FREE STANDING FEET SH124

Application Can be used when wall mounting is not possible, eg. in front of windows, as additional support where SF124 fixed legs are used or where a radiator disassembly is desired, for example by casting of feet.

Construction 20 x 30 x 2 mm steel pipe with 5 mm steel foot plate and welded holders with plastic inserts for sound attenuation. At the top, the tube is cut obliquely and closed.

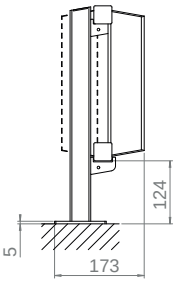
Height 124 mm from upper floor surface to lower edge of radiator.

Color Same as radiator

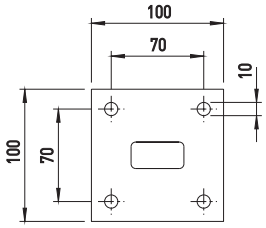
Others options Extended mounting stands for use with e.g. raised floors or casting.

Note SH124 can be placed as desired. However, it is recommended to use the table below as a guide.

Feet SH124, profile

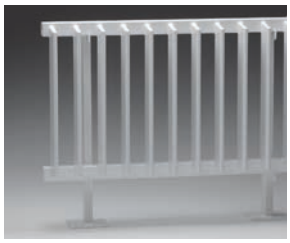


Foot plate for feet SH124, top view



SCE with free standing feet SH124

Drawing 10.1



POSITION AND NO. OF FEET

	Element spacing			
	40 mm		60 mm	
No. of feet	**Elements**	**L, mm**	**Elements**	**L, mm**
2	2-40	80-1600	2-27	100-1600
3	41-70	1640-2800	28-47	1660-2800
4	71-75	2840-3000	48-50	2860-2980

WATERWAY FEET SK150

Application Can be used when wall mounting is not possible, e.g. in front of windows. Tappings at the bottom of the leg for less visible piping. Also suitable for raised floor where the piping is underneath the floor.

Construction The legs are similar to the horizontal elements made of 35 x 35 x 2.5 mm steel pipes and welded together. Together they form a frame for the radiator. Foot plate in 5 mm steel plate. Water circulation in the legs with tappings close to the floor.

Height 150 mm from upper floor surface to lower edge of radiator.

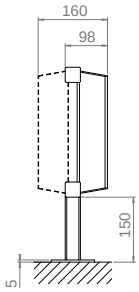
Color Same as radiator

Tappings 1,/2" facing the center of the radiator.

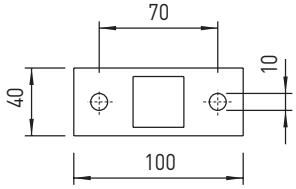
Note: Total lenght: Radiator lenght + 90 mm

Drawing 11.1

SK150 feet, profile



Foot plate for SK150 feet, top view



SCE with waterway feet SK150

POSITION AND NO. OF FEET

	Element spacing			
	40 mm		60 mm	
No. of feet	Elements	L, mm	Elements	L, mm
2	2-40	80-1600	2-27	100-1600
3	41-70	1640-2800	28-47	1660-2800
4	71-75	2840-3000	48-50	2860-2980

WATERWAY FEET SE150

Application Can be used when wall mounting is not possible, e.g. in front of windows. Tappings at the bottom of the leg for less visible piping. Also suitable for raised floor where the piping is underneath the floor.

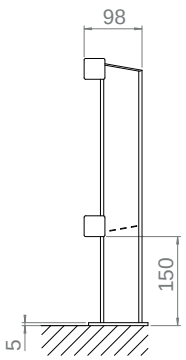
Construction Outer 2 elements are extended and functions as waterwat feet. Foot plate in 5 mm steel plate. Water circulation in the legs with tappings close to the floor.

Height 150 mm from upper floor surface to lower edge of radiator.

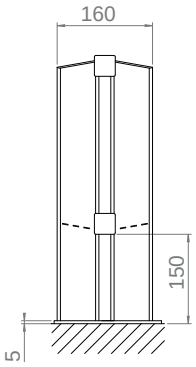
Color Same as radiator

Tappings 1,/2" facing the center of the radiator.

SCE with feet SE150, profile



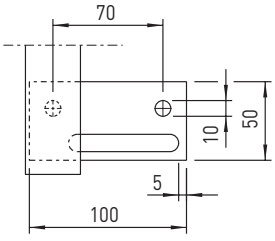
SCD with feet SE150, profile



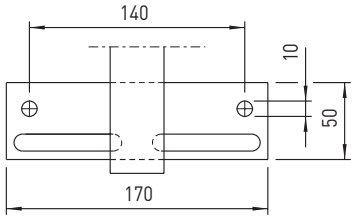
SCE with feet SE150

Drawing 12.1

SCE, foot plate for SE150 feet, top view



SCD, foot plate for SE150 feet, top view



POSITION AND NO. OF FEET

	Element spacing			
	40 mm		60 mm	
No. of feet	Elements	L, mm	Elements	L, mm
2	2-40	80-1600	2-27	100-1600
3	41-70	1640-2800	28-47	1660-2800

Note: For placement of feet on radiator longer than 2800 mm - please contact Hudevad.

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OPTIONS

ANGLED AND CURVED RADIATORS

Description

All SCE and SCD radiators can be supplied angled or curved.
Tapping designations etc. follow the same principles as for straight radiators.

Output calculation, angled:

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

Output calculation, curved:

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

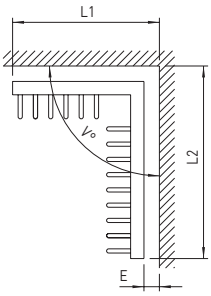
Installation

Wall or floor mounted.
Note: Unless otherwise specified, the radiator is supplied with bracket SB20 (SCE) or SB82 (SCD).

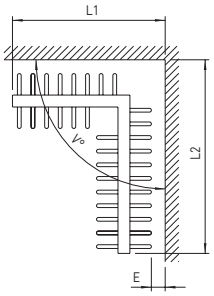
If alternative wall distance is required, please consult Hudevad.

INTERNAL ANGLES

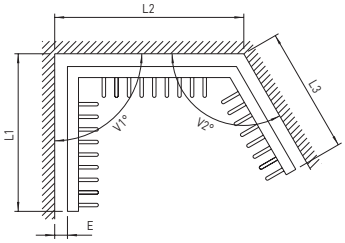
SCE



SCD

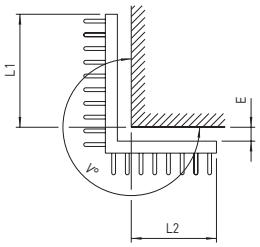


2 internal angles



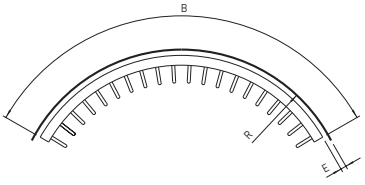
EXTERNAL ANGLE

Drawing 13.1

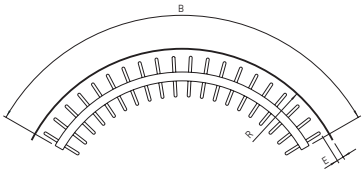


INTERNAL CURVE

SCE

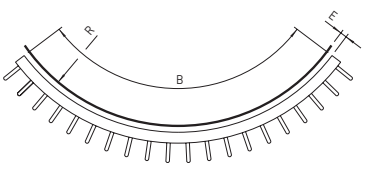


SCD



EXTERNAL CURVE

Drawing 13.2



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OUTPUT

SC SINGLE (SCE)

Height, mm	W/m, 75°/65°/20° Element spacing, mm		W/m, 70°/40°/20° Element spacing, mm		W/m, 60°/30°/20° Element spacing, mm		Water content litres/ element	Weight kg/ element
	40	60	40	60	40	60		
300	595	469	345	272	201	159	0.25	0.9

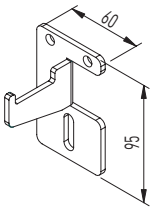
SC DOUBLE (SCD)

Height, mm	W/m, 75°/65°/20° Element spacing, mm		W/m, 70°/40°/20° Element spacing, mm		W/m, 60°/30°/20° Element spacing, mm		Water content liter/ element	Weight kg/ element
	40	60	40	60	40	60		
300	960	729	556	422	325	247	0.37	1.5

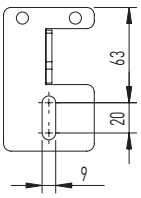
ACCESSORIES

Drawing 14.2

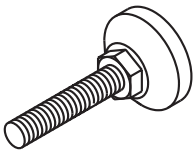
Bracket SB20



Bracket, profile



Spacer



SCE uses bracket SB20 and SCD uses bracket SB82

Note: Bracket SB82 has same backplate with longer outreach