Stelrad RADIATORS

COMPACT RANGE

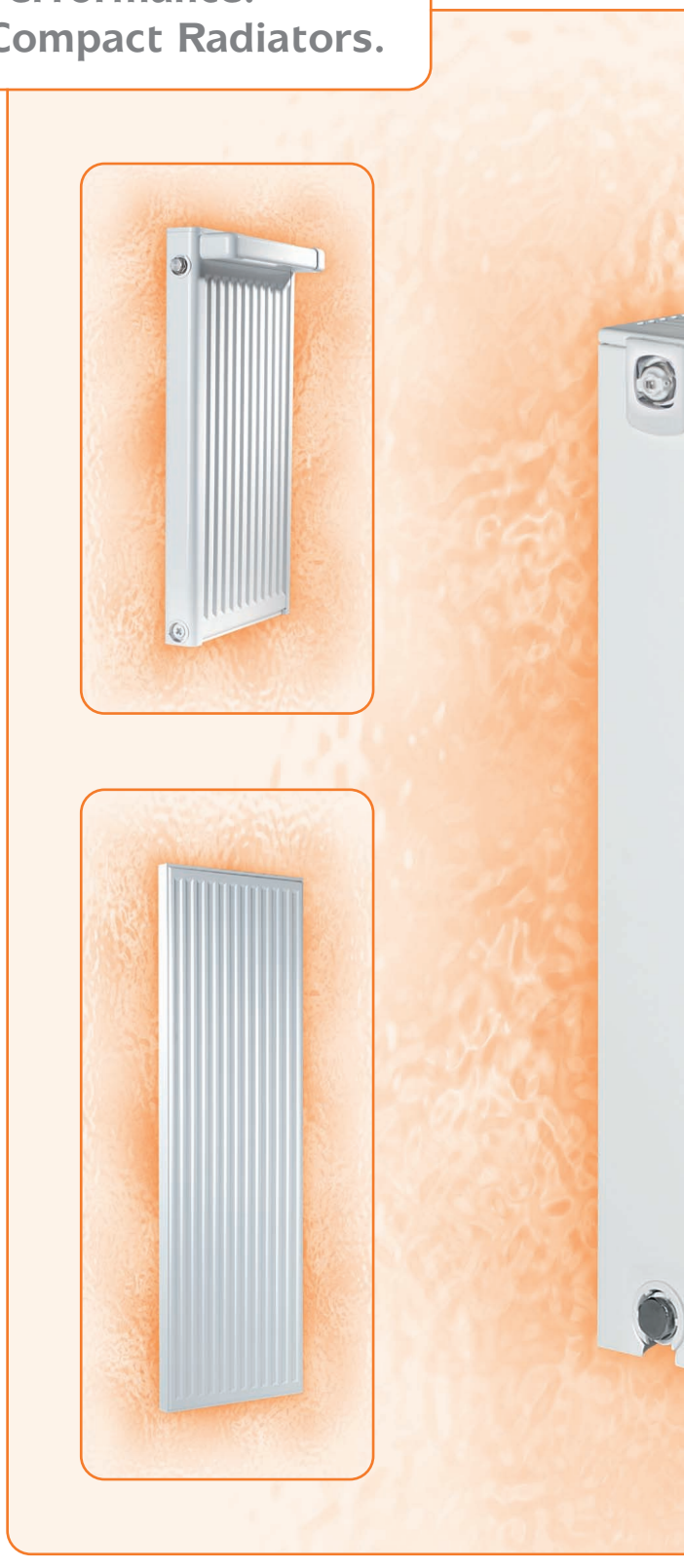
Cl/Sfb

56

Stelrad RADIATORS

Europe's leading radiators

More Choice, Superb Quality, Extra Performance. The Most Comprehensive Range Of Compact Radiators.



EXTRA PERFORMANCE TO GUARANTEED STANDARDS

The new Stelrad Compact range comes complete with all the features expected from a market leader and more. Combining the most sophisticated production resources in Europe, with substantial investment directed towards testing and verification of performance data, has resulted in the creation of a high output Compact radiator for heating performance that exceeds expectation.

Strictly controlled independent laboratory testing ensures that all Stelrad Compact radiators are guaranteed to perform to a maximum working pressure of 116 psi (8 bar) and conform to BS EN 442 - the European Standard for radiators.

As a measure of the all round dependable quality and performance, the Stelrad Compact comes complete with a 10 year Manufacturer's Warranty.

MORE CHOICE FOR APPLICATION FLEXIBILITY

A range of 200 models provides extra sizing flexibility and covers a multitude of application requirements.

Included in the range is the Stelrad Compact Towel Rail, perfect for use in bathrooms and cloakrooms and like the standard Compact radiator can be fitted to floor standing brackets where situations such as tiled walls present installation difficulties.

For applications where wall space is at a premium, the Compact Vertex radiator is the answer. With height rather than width to provide the equivalent, outstanding heating performance as the standard model, this stylish radiator provides an innovative option.

Seven heights, ranging from 300mm to 2200mm, and lengths from as little as 400mm up to 3000mm, the Stelrad Compact range can provide a size and style to fit the most challenging of application requirements.

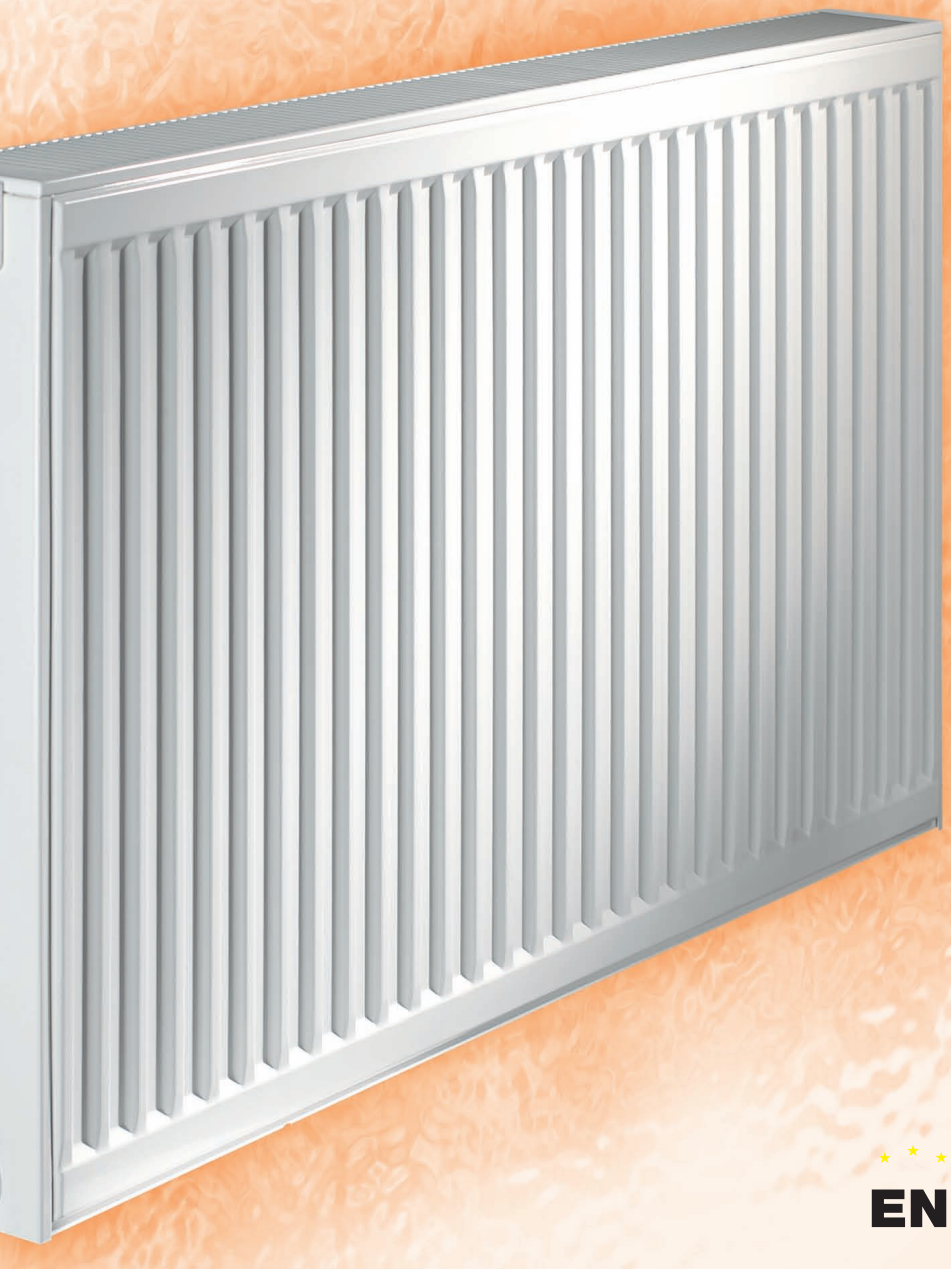
SUPERB QUALITY FROM DESIGN TO INSTALLATION

The elegant, integrated top grille and side panels, have been specifically designed to eradicate any movement, providing a tight, professional fit, that will remain in place, even after storage, transit and installation.

As you would expect from a radiator with the Stelrad pedigree, the convectors are precision welded directly onto the waterways for greater efficiency and economy, with flexible connection options for the highest of commercial and domestic application specifications.

The Stelrad Compact range is manufactured under ISO 9000 in the UK and every radiator comes wrapped in robust, practical packaging that will keep the product pristine, right through to hand over! Protective through storage and transit, the new packaging design also allows installation prior to removal.

With availability nationwide, the Stelrad Compact range is the perfect solution for all Compact radiator applications.



WARRANTY 10 YEAR ON COMPACT & ELITE RANGE

EN EURONORM 442

The elegant top grille and side panels have been specifically designed to eradicate movement, providing a tight, professional, quality fit.

Robust packaging protects the product right through to hand over. Installation instructions can be found on the reverse of the identification label.

For easy calculations and greater accuracy of sizing the Stelrad Stars heat loss and design programs are available.
Call 0800 318 680 for further information.

Stelrad Compact Technical Data & Dimensions

Note: Products over 2m long and the majority of P1s are produced to order.

Outputs at Operating Temperature 75/65/20°C

HEIGHT	LENGTH (Approx)		SECTION	K1		P+		K2		P1	
	mm	in		Watts	Btu/hr	Watts	Btu/hr	Watts	Btu/hr	Watts	Btu/hr
300	500	19.7	15	255	868	373	1271	491	1675	-	-
	1000	39.4	30	509	1737	745	2542	982	3351	-	-
	1500	59.1	45	764	2605	1118	3813	1473	5026	-	-
	2000	78.7	60	1018	3473	1490	5084	1964	6701	-	-
	2500	98.4	75	1273	4342	1863	6355	2455	8376	-	-
	3000	118.1	90	1527	5210	2235	7626	2946	10052	-	-
450	400	15.7	12	302	1032	422	1440	548	1871	190	647
	500	19.7	15	378	1290	528	1800	686	2339	237	809
	600	23.6	18	454	1548	633	2160	823	2807	284	970
	700	27.6	21	529	1806	739	2520	960	3274	332	1132
	800	31.5	24	605	2064	844	2880	1097	3742	379	1294
	900	35.4	27	680	2322	950	3240	1234	4210	427	1456
	1000	39.4	30	756	2579	1055	3600	1371	4678	474	1617
	1100	43.3	33	832	2837	1161	3960	1508	5146	-	-
	1200	47.2	36	907	3095	1266	4320	1645	5613	569	1941
	1400	55.1	42	1058	3611	1477	5040	1919	6549	664	2264
	1600	63.0	48	1210	4127	1688	5759	2194	7485	758	2588
	1800	70.9	54	1361	4643	1899	6479	2468	8420	-	-
	2000	78.7	60	1512	5159	2110	7199	2742	9356	-	-
	2200	86.6	66	1663	5675	2321	7919	3016	10291	-	-
	2400	94.5	72	1814	6191	2532	8639	3290	11227	-	-
	2600	102.4	78	1966	6707	2743	9359	3565	12162	-	-
	2800	110.2	84	2117	7223	2954	10079	3839	13098	-	-
	3000	118.1	90	2268	7738	3165	10799	4113	14034	-	-
600	400	15.7	12	392	1338	538	1836	693	2364	248	845
	500	19.7	15	490	1672	673	2295	866	2955	310	1056
	600	23.6	18	588	2006	807	2753	1039	3546	371	1267
	700	27.6	21	686	2341	942	3212	1212	4137	433	1478
	800	31.5	24	784	2675	1076	3671	1386	4728	495	1690
	900	35.4	27	882	3009	1211	4130	1559	5319	557	1901
	1000	39.4	30	980	3344	1345	4589	1732	5910	619	2112
	1100	43.3	33	1078	3678	1480	5048	1905	6501	-	
	1200	47.2	36	1176	4013	1614	5507	2078	7092	743	2534
	1400	55.1	42	1372	4681	1883	6425	2425	8273	867	2957
	1600	63.0	48	1568	5350	2152	7343	2771	9455	990	3379
	1800	70.9	54	1764	6019	2421	8260	3118	10637	-	-
	2000	78.7	60	1960	6688	2690	9178	3464	11819	-	-
	2200	86.6	66	2156	7356	2959	10096	3810	13001	-	-
	2400	94.5	72	2352	8025	3228	11014	4157	14183	-	-
	2600	102.4	78	2548	8694	3497	11932	4503	15365	-	-
	2800	110.2	84	2744	9363	3766	12850	4850	16547	-	-
	3000	118.1	90	2940	10031	4035	13767	5196	17729	-	-
700	400	15.7	12	447	1524	612	2088	784	2676	-	-
	500	19.7	15	559	1906	765	2610	981	3345	-	-
	600	23.6	18	670	2287	918	3132	1177	4015	-	-
	700	27.6	21	782	2668	1071	3654	1373	4684	-	-
	800	31.5	24	894	3049	1224	4176	1569	5353	-	-
	900	35.4	27	1005	3430	1377	4698	1765	6022	-	-
	1000	39.4	30	1117	3811	1530	5220	1961	6691	-	-
	1100	43.3	33	1229	4192	1683	5742	2157	7360	-	-
	1200	47.2	36	1340	4573	1836	6264	2353	8029	-	-
	1400	55.1	42	1564	5336	2142	7309	2745	9367	-	-
	1600	63.0	48	1787	6098	2448	8353	3138	10705	-	-
	1800	70.9	54	2011	6860	2754	9397	3530	12044	-	-
	2000	78.7	60	2234	7622	3060	10441	3922	13382	-	-
	2200	86.6	66	2457	8385	3366	11485	4314	14720	-	-
	2400	94.5	72	2681	9147	3672	12529	4706	16058	-	-
	2600	102.4	78	2904	9909	3978	13573	5099	17396	-	-
	2800	110.2	84	3128	10671	4284	14617	5491	18735	-	-
	3000	118.1	90	3351	11434	4590	15661	5883	20073	-	-

WARRANTY 10 YEAR ON COMPACT & ELITE RANGE

EN 442 Certification Data – HLK tested in accordance with BS EN 442

Type	K1				P+				K2				P1			
Height	300	450	600	700	300	450	600	700	300	450	600	700	300	450	600	700
W/m at 75/65/20	509	756	980	1117	745	1055	1345	1530	982	1371	1732	1961	326	474	619	715
n-coefficients	1.32	1.31	1.29	1.29	1.33	1.33	1.34	1.34	1.33	1.33	1.33	1.34	1.28	1.33	1.33	1.33
Heated Surface Area (m^2/m)	2.09	3.37	4.66	5.51	2.44	3.84	5.24	6.18	3.51	5.62	7.74	9.15	0.68	1.03	1.37	1.60
Weight (kg/m)	9.31	14.51	19.70	22.90	14.29	22.04	29.80	34.50	16.80	25.90	35.00	40.53	6.64	9.82	13.00	15.12
Water Contents (l/m)	1.89	2.57	3.25	3.77	3.70	5.15	6.60	7.63	3.70	5.15	6.60	7.63	1.89	2.57	3.25	3.77

TEMPERATURE TABLE

To apply the factors shown in the table below to our quoted outputs, multiply the quoted output by the chosen operating factor to give new output.

To apply the factor to required output, divide required output by factor to give correct radiator from the Stelrad Compact range.

TEMPERATURES Factors for differences between mean water temperature and room temperature in °C and °F other than 50°C (90°F)			
°C		°F	
5°C	0.050	10°F	0.057
10°C	0.123	20°F	0.142
15°C	0.209	30°F	0.240
20°C	0.304	40°F	0.348
25°C	0.406	50°F	0.466
30°C	0.515	60°F	0.590
35°C	0.629	70°F	0.721
40°C	0.748	80°F	0.858
45°C	0.872	90°F	1.000
50°C	1.000	100°F	1.147
55°C	1.132	110°F	1.298
60°C	1.267	120°F	1.454
65°C	1.406	130°F	1.613
70°C	1.549	140°F	1.776
75°C	1.694		

TESTING AND OPERATING PRESSURES

All models are high pressure tested to withstand 152.3 psi (10.5 bar), to perform at a maximum working pressure of 116 psi (8 bar) at a maximum temperature of 95˚C.

CONNECTIONS

Each Stelrad Compact radiator has 4 x ½ inch connections as standard. There is also a ¾ inch valve adaptor available, which provides a ¾ inch connector option to the valve without reducing performance.

APPLICATIONS

Stelrad Compact radiators are suitable for two pipe installations. For single pipe applications, it is advisable to use diversion tees in the pipework, as this will assist in obtaining design performance from the radiators.

Although the Stelrad Compact is suitable for Microbore pipework, the back tappings make it unsuitable for twin entry valves.

For further information and advice call Technical Support on: 01482 498 663.

INSTALLATION

Everything required for installation can be found within the robust packaging.

Brackets are of a strong design, with open top and deep slots, which facilitate easy and secure installation. Plastic inserts seat the radiator precisely on the bracket minimizing expansion and contraction noise.

The neat nickel-plated plug and vent provide a watertight joint, whilst complementing the superior finish.

To facilitate easy one off replacement, nickel-plated brass extension pieces are also available for the Stelrad Compact Towel Rail and Compact Standard radiators, complete with sealing washer, in 20mm, 30mm and 40mm options.

Recommended height from the floor to the base of the radiator is 150 mm minimum. This allows adequate airflow when the radiator is placed on the bracket.

CAUTION

When designing for domestic systems we recommend that the Stelrad Compact be used only in heating systems complying with British Standard Code of Practice for Central Heating for Domestic Premises BS 5449 Part 1.

Single feed, indirect cylinders are not recommended, as should interchange of water occur, fresh aerated water would enter the heating system, resulting in corrosion.

WATER TREATMENT

On completion of the installation the system should be properly flushed and filled in accordance with the British Standard Code of Practice for the Treatment of Water in Domestic Hot Water Central Heating Systems BS 7593.

This will remove flux residues and installation debris, which might promote corrosion and damage within the system.

If it is decided to apply a corrosion inhibitor to maximize the working life of the system, it should be applied in accordance with the manufacturers instructions and should be suitable for the particular metals within the system.

Further details of readily available cleansers and inhibitors can be obtained from: Sentinel Division, BetzDearborn Limited, Foundry Lane, Widnes, WA8 8UD. Telephone: 0151 420 9595, and Alpha Fry Technologies, Tandem House, Marlowe Way, Beddington Farm Road, Croydon, CR0 4XS. Telephone: 01799 550811.

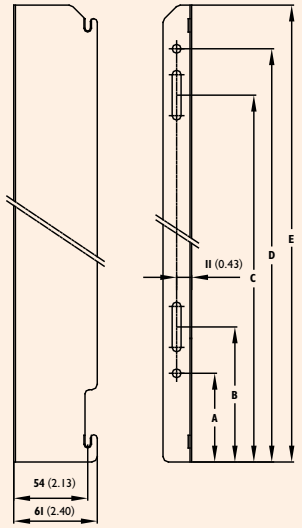
TWO COAT PAINT PROCESS

Each Stelrad Compact radiator is subjected to a multi stage cleaning process before the paint is applied. This involves several rinsing stages, including an iron phosphate and demineralization rinse.

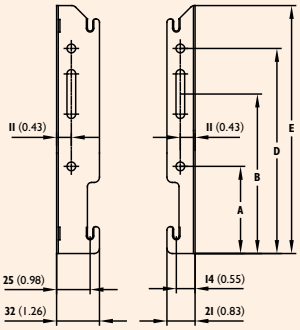
The first coat of paint is applied by electrophoresis and the radiator is then stoved and cooled. The second powder coat, in warm white (RAL 9016) is applied and the radiator goes through a final curing stage. It is then allowed to cool prior to packaging.

Mounting Brackets

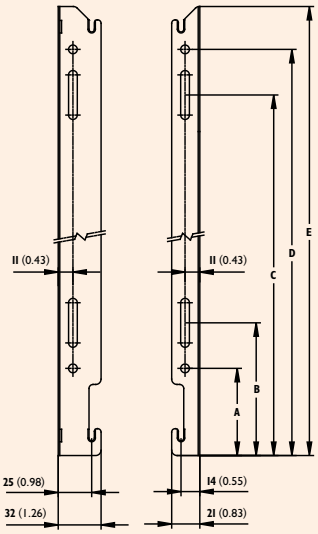
All dimensions in mm. Inches in brackets



P1



K1, P+ and K2 (300mm)

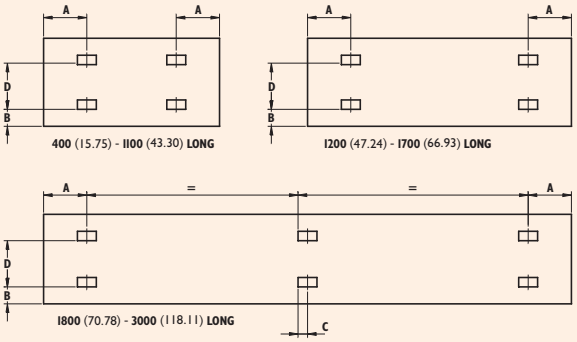


K1, P+ and K2 (Over 300mm)

	DIMENSIONS mm (in)			
	700 (27.56)	**600** (23.62)	**450** (17.72)	**300** (11.81)
A	**65** (2.56)	**65** (2.56)	**65** (2.56)	**65** (2.56)
B	**99** (3.90)	**99** (3.90)	**99** (3.90)	**119** (4.69)
C	**519** (20.43)	**419** (16.50)	**269** (10.59)	-
D	**553** (21.77)	**453** (17.83)	**303** (11.93)	**153** (6.02)
E	**585** (23.03)	**485** (19.09)	**335** (13.19)	**185** (7.28)

K1, P+, K2 and P1 Lug Positions

All dimensions in mm. Inches in brackets

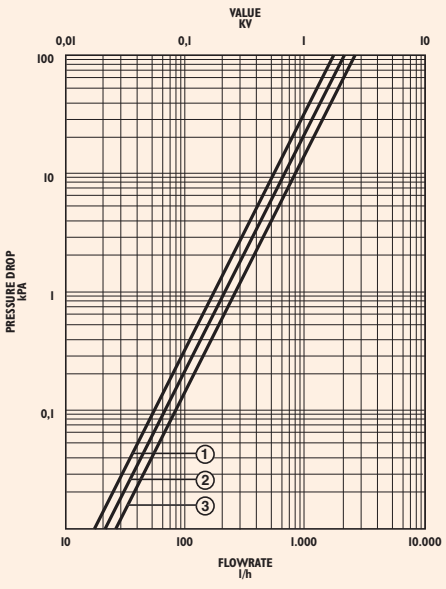


	P1, P+ & K2 mm (in)
A	**133** (5.24)
B	**60** (2.36)

	K1 mm (in)	
A	400mm	**117** (4.61)
A	500 - 3000mm	**150** (5.91)
B	400 - 3000mm	**60** (2.36)
C	1800 - 3000mm	**17** (0.67)

Panel Height	D
300 (11.81)	**155** (6.10)
450 (17.72)	**305** (12.01)
600 (23.62)	**455** (17.91)
700 (27.56)	**555** (21.95)

Pressure Drops



1. Type 10 (P1), 11 (K1)
2. Type 21 (P+), 22 (K2)
3. Type 33 (K3)

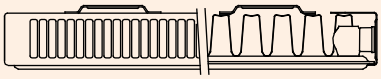
Technical Product Detail

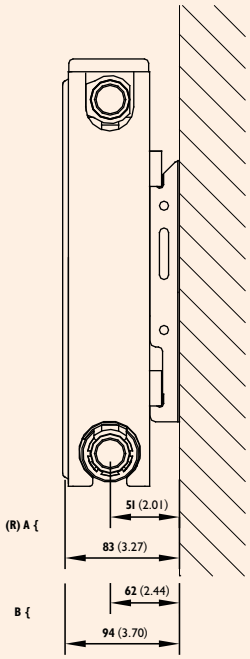
	Surface (m^2) (average per section)				Volume (Litres) (average per section)				Dry Weight (kg) (average per section)			
Height	**K1**	**P+**	**K2**	**P1**	**K1**	**P+**	**K2**	**P1**	**K1**	**P+**	**K2**	**P1**
300	0.06196	0.08646	0.12392	0.02450	0.056	0.11	0.11	0.056	0.28	0.50	0.56	
450	0.09839	0.13444	0.19678	0.03605	0.084	0.17	0.17	0.084	0.43	0.76	0.86	0.33
600	0.13485	0.18246	0.26970	0.04761	0.097	0.19	0.19	0.097	0.58	1.02	1.16	0.44
700	0.15911	0.21442	0.31822	0.05531	0.107	0.21	0.21	0.107	0.68	1.19	1.36	0.51

Wall Mounting Information

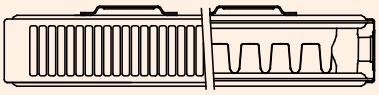
All dimensions in mm. Inches in brackets

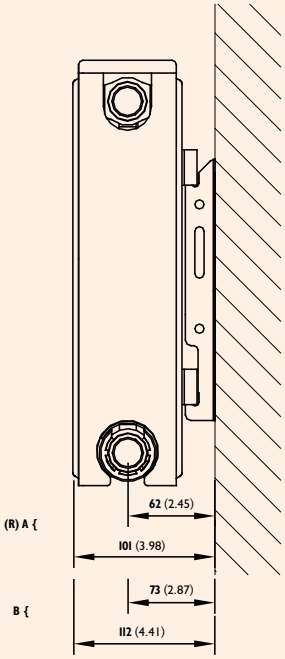
K1



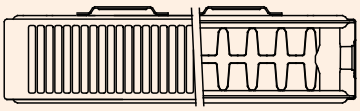


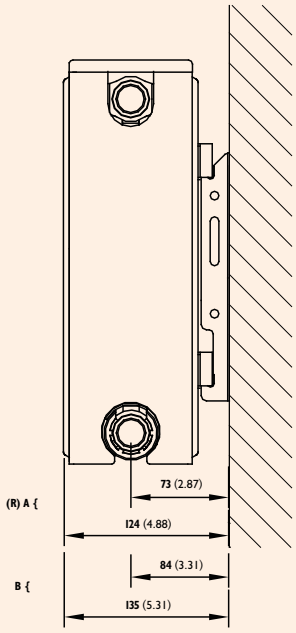
P+



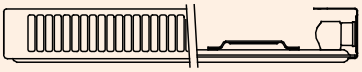


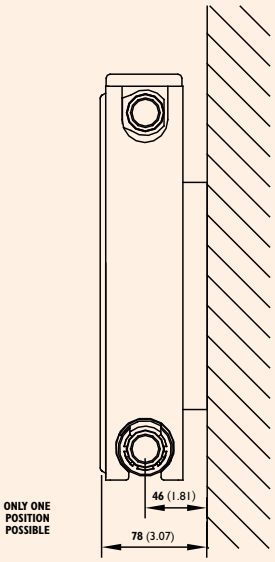
K2





P1





Bracket Position

A = Closest to Wall B = Furthest from Wall (R) = Recommended Mounting Position

All fixing requirements are complete within the packaging.

Floor standing brackets provide a practical solution for standard and towel rail models, where situations, such as tiled walls, create installation difficulties.

Optional extension pieces for easy replacement.

Optional ¾ inch valve adaptor for connection without performance reduction.

Stelrad Compact Towel Rail Technical Data & Dimensions

WARMTH THAT WORKS HARDER

This simple design is the ultimate in neat, efficient functionality for towel warming and space heating. The superbly integrated unit allows towels and clothes to warm without interfering with the vital flow of convected room heat.

CARING FOR YOUR STELRAD COMPACT TOWEL RAIL

Every product is quality checked to the highest standards. Care should be taken not to site the product where it could be struck by an opening door. The rail itself should not be loaded with more than 40Kg weight and the plastic components are not suitable for painting. Cleaning is simple using a soft cloth with non-abrasive, non-corrosive agents.

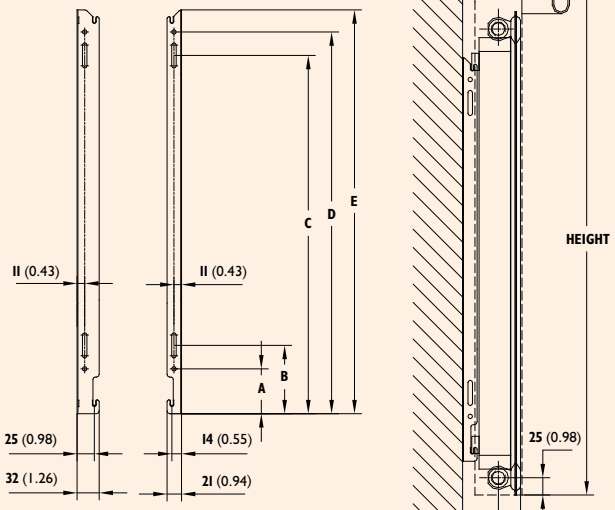
Outputs at Operating Temperature 75/65/20°C

STR

MODEL	HEIGHT		LENGTH		SECTION	HEAT OUTPUTS	
	mm	ins	mm	ins		Watts	Btu/hr
STR2	645	25.41	425	16.73	12	419	1430
STR3	645	25.41	625	24.60	18	611	2085
STR4	745	29.33	425	16.73	12	475	1621
STR6	745	29.33	625	24.60	18	693	2365
STR8	745	29.33	825	32.48	24	922	3146

Mounting Brackets

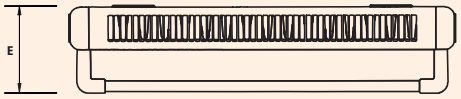
All dimensions in mm.
Inches in brackets

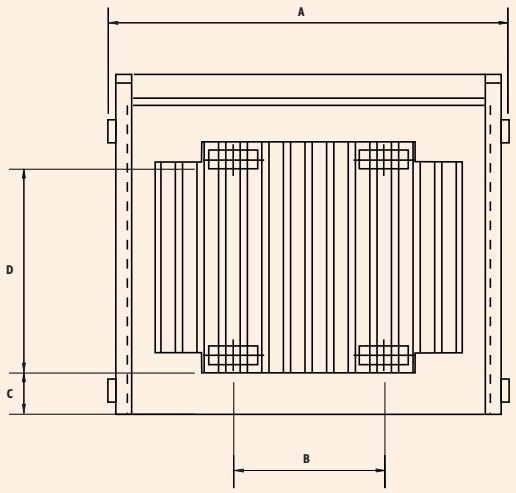


	DIMENSIONS mm (in)	
	700 (27.56)	600 (23.62)
A	65 (2.56)	65 (2.56)
B	99 (3.90)	99 (3.90)
C	519 (20.43)	419 (16.50)
D	553 (21.77)	453 (17.83)
E	585 (23.03)	485 (19.09)

Wall Mounting Information

All dimensions in mm. Inches in brackets





	STR2	STR3	STR4	STR6	STR8
A	425 (16.73)	625 (24.60)	425 (16.73)	625 (24.60)	825 (32.48)
B	167 (6.57)	300 (11.81)	167 (6.57)	300 (11.81)	500 (19.68)
C	60 (2.36)	60 (2.36)	60 (2.36)	60 (2.36)	60 (2.36)
D	555 (21.85)	555 (21.85)	555 (21.85)	555 (21.85)	555 (21.85)
E	140 (5.51)	140 (5.51)	140 (5.51)	140 (5.51)	140 (5.51)

EN 442 Certification Data – BSI tested in accordance with BS EN 442

Type	STR2	STR3	STR4	STR6	STR8
Height & Length	645 x 425	645 x 625	745 x 425	745 x 625	745 x 825
W at 75/65/20	419	611	475	693	922
n-coefficients	1.2748	1.2748	1.2785	1.2785	1.2785
Heated Surface Area (m2)	1.86	2.79	2.21	3.31	4.41
Weight (kg)	8.72	13.08	9.95	14.92	19.89
Water Contents (l)	1.32	1.98	1.56	2.34	3.12

Stelrad Compact Vertex Technical Data & Dimensions

WARMTH WITH STYLE

This stylish, attractive model is the simple answer for applications where wall space is at a premium. Installation is as simple as the standard models, with piping flexibility and the option of a ¾ inch valve adaptor without reducing performance.

Outputs at Operating Temperature 75/65/20°C

P2

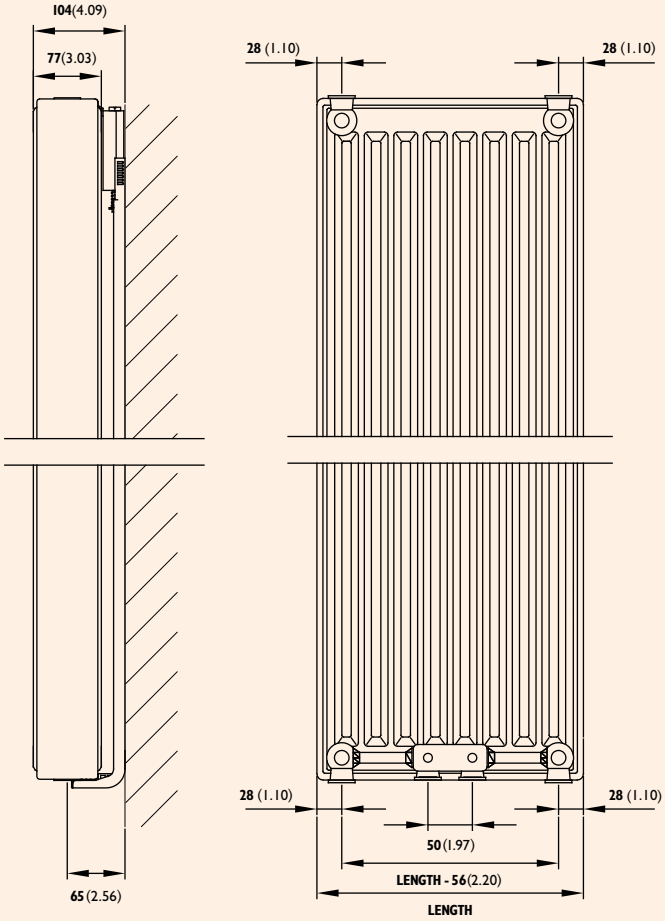
HEIGHT	LENGTH		SECTION	HEAT OUTPUTS	
	mm	ins		Watts	Btu/hr
1800	400	15.74	12	1146	3910
	600	23.62	18	1719	5865
	700	27.56	21	2006	6844
2000	400	15.74	12	1248	4258
	600	23.62	18	1872	6387
	700	27.56	21	2184	7452
2200	400	15.74	12	1356	4627
	600	23.62	18	2034	6940
	700	27.56	21	2373	8097

Technical Product Detail

Length	Surface (m²) (average per radiator)			Volume (Litres) (average per radiator)			Dry Weight (kg) (average per radiator)		
	1800	2000	2200	1800	2000	2200	1800	2000	2200
400	3.30	3.67	4.04	6.48	7.20	8.04	28.44	31.44	35.04
600	4.95	5.50	6.05	9.72	10.80	12.06	42.66	47.16	52.56
700	5.78	6.42	7.06	11.34	12.60	14.07	49.77	55.02	61.32

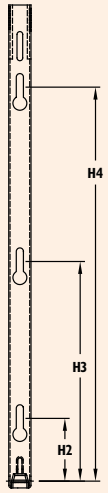
Wall Mounting Information

All dimensions in mm. Inches in brackets



Mounting Brackets

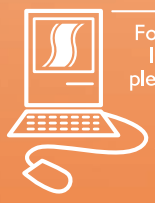
All dimensions in mm.
Inches in brackets



HEIGHT	H2	H3	H4
1800	70 (2.75)	1115 (43.89)	1615 (63.58)
2000	70 (2.75)	1215 (47.83)	1815 (71.46)
2200	70 (2.75)	1315 (51.77)	2015 (79.33)

EN 442 Certification Data – CETIAT tested in accordance with BS EN 442

Type	P2		
Height	1800	2000	2200
W/m at 75/65/20	2865	3120	3390
n-coefficients	1.3135	1.3068	1.3000
Weight (kg/m)	71.1	78.6	87.6
Water Contents (l/m)	16.20	18.00	20.10



For the very latest copy of any of our literature for specification purposes please visit **www.stelrad.com** where you will be able to download the relevant information in pdf format

BRANDS YOU CAN TRUST

PO Box 103, National Avenue, Hull HU5 4JN Tel: 0870 849 8056 Fax: 0870 849 8058 www.stelrad.com

CR/10K/08/08