

Elite

Extra performance to guaranteed standards

The UK's most popular radiator has received substantial investment to provide increased quality and performance. Which means that the Stelrad Elite now offers improved outputs for exceptional heating performance.

Strictly controlled independent laboratory testing ensures that all Stelrad Elite 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.

More choice for application flexibility

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

A range of 204 models provides extra sizing flexibility to cover a multitude of application requirements.

Four heights, with increments from as little as 100mm. From one of the smallest stock radiators on the market at just 400mm long to a full 3000mm, all length radiators are catered for. Elite also offers one of the slimmest double panel radiators at just 77mm wide.

Superb quality from design to installation

Flexibility of installation doesn't just mean greater choice of sizing either. There are specifically designed accessories, such as floor standing brackets, to ensure that Stelrad Elite can be fitted anywhere.

The Elite is manufactured in the UK from the most sophisticated production resources in Europe, under the ISO 9000 quality system.

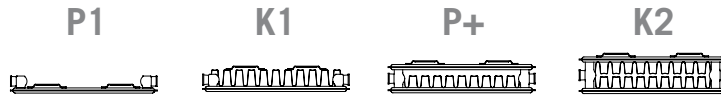
Symmetrical convectors allow radiator mounting either way up. TBOE connection is offered as an important facility in commercial applications and to ensure greater efficiency and economy, the convectors are precision welded directly onto the waterways.

All tappings are perfectly aligned, with best quality nickel-plated plugs and vents, incorporating high quality EPDM 'O' rings. High definition pressings ensure smooth edges and corners and the perfect, run free, two-coat paint finish blends with all styles of décor.

All wrapped up in newly designed, robust but practical packaging to provide a product of distinction with nationwide availability.

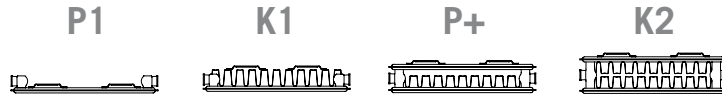


50 Δt



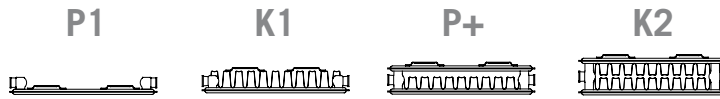
Height	Length mm	Sections	P1			K1			P+			K2			
			UIN	Watts	Btu/hr	UIN	Watts	Btu/hr	UIN	Watts	Btu/hr	UIN	Watts	Btu/hr	
300	500	15	-	-	-	8430	259	884	8436	388	1324	8442	506	1726	
	1000	30	-	-	-	8431	517	1764	8437	776	2648	8443	1012	3453	
	1500	45	-	-	-	8432	776	2648	8438	1164	3972	8444	1518	5179	
	2000	60	-	-	-	8433	1034	3528	8439	1552	5295	8445	2024	6906	
	2500	75	-	-	-	8434	1293	4412	8440	1940	6621	8446	2530	8632	
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	400	12	8448	190	648	8461	307	1047	8479	442	1508	8497	564	1924	
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	1000	30	8454	476	1624	8467	768	2620	8485	1106	3774	8503	1409	4808	
	1100	33	-	-	-	8468	845	2883	8486	1217	4152	8504	1550	5289	
	1200	36	8456	571	1948	8469	922	3146	8487	1327	4528	8505	1691	5770	
	1400	42	8457	666	2272	8470	1075	3668	8488	1548	5282	8506	1973	6732	
	1600	48	8458	762	2600	8471	1229	4193	8489	1770	6039	8507	2254	7691	
	1800	54	-	-	-	8472	1382	4715	8490	1991	6793	8508	2536	8653	
	2000	60	8459	952	3248	8473	1536	5241	8491	2212	7547	8509	2818	9615	
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	2800	84	-	-	-	8477	2150	7336	8495	3097	10567	8513	3945	13460	
	3000	90	-	-	-	8478	2304	7861	8496	3318	11321	8514	4227	14423	
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1600		48	8525	976	3330	8538	1600	5459	8556	2254	7691	8574	2845	9707	
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40_{Δt}



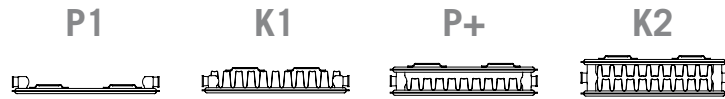
Height	Length mm	Sections	P1			K1			P+			K2		
			UIN	Watts	Btu/hr	UIN	Watts	Btu/hr	UIN	Watts	Btu/hr	UIN	Watts	Btu/hr
300	500	15	-	-	-	8430	194	661	8436	290	990	8442	378	1291
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	2000	60	-	-	-	8433	773	2639	8439	1161	3961	8445	1514	5166
	2500	75	-	-	-	8434	967	3300	8440	1451	4951	8446	1892	6457
	3000	90	-	-	-	8435	1160	3958	8441	1741	5941	8447	2271	7748
	400	12	8448	142	485	8461	230	784	8479	331	1128	8497	422	1439
	500	15	8449	178	607	8462	287	980	8480	414	1411	8498	527	1799
	600	18	8450	214	730	8463	345	1177	8481	497	1695	8499	632	2157
	700	21	8451	249	850	8464	402	1373	8482	579	1975	8500	738	2516
450	800	24	8452	285	972	8465	459	1567	8483	662	2259	8501	843	2876
	900	27	8453	320	1092	8466	517	1764	8484	744	2539	8502	948	3236
	1000	30	8454	356	1215	8467	574	1960	8485	827	2823	8503	1054	3596
	1100	33	-	-	-	8468	632	2157	8486	910	3106	8504	1159	3956
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	1400	42	8457	498	1700	8470	804	2744	8488	1158	3951	8506	1476	5035
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	1800	54	-	-	-	8472	1034	3527	8490	1489	5081	8508	1897	6472
	2000	60	8459	712	2430	8473	1149	3920	8491	1655	5645	8509	2108	7192
	2200	66	-	-	-	8474	1264	4313	8492	1820	6209	8510	2319	7912
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	600	18	8517	274	934	8530	449	1531	8548	632	2157	8566	798	2723
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	800	24	8519	365	1245	8532	598	2042	8550	843	2876	8568	1064	3629
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	1100	33	-	-	-	8535	823	2807	8553	1159	3956	8571	1463	4992
	1200	36	8523	548	1868	8536	898	3063	8554	1265	4316	8572	1596	5446
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	1800	54	-	-	-	8539	1346	4594	8557	1897	6472	8575	2394	8167
	2000	60	8526	913	3114	8540	1496	5104	8558	2108	7192	8576	2660	9076
	2200	66	-	-	-	8541	1646	5615	8559	2319	7912	8577	2926	9984
	2400	72	8527	1095	3736	8542	1795	6125	8560	2530	8631	8578	3192	10890
	2600	78	-	-	-	8543	1945	6636	8561	2740	9349	8579	3458	11799
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	600	18	-	-	-	8597	512	1748	8615	717	2445	8633	903	3080
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30 Δt



Height	Length mm	Sections	P1			K1			P+			K2		
			UIN	Watts	Btu/hr	UIN	Watts	Btu/hr	UIN	Watts	Btu/hr	UIN	Watts	Btu/hr
300	500	15	-	-	-	8430	133	455	8436	200	682	8442	261	889
	1000	30	-	-	-	8431	266	908	8437	400	1364	8443	521	1778
	1500	45	-	-	-	8432	400	1364	8438	599	2045	8444	782	2667
	2000	60	-	-	-	8433	533	1817	8439	799	2727	8445	1042	3557
	2500	75	-	-	-	8434	666	2272	8440	999	3409	8446	1303	4446
	3000	90	-	-	-	8435	799	2725	8441	1199	4091	8447	1564	5335
	400	12	8448	98	334	8461	158	539	8479	228	777	8497	290	991
	500	15	8449	123	418	8462	198	675	8480	285	972	8498	363	1239
	600	18	8450	147	503	8463	237	810	8481	342	1167	8499	435	1485
	700	21	8451	171	585	8464	277	945	8482	399	1360	8500	508	1733
450	800	24	8452	196	669	8465	316	1079	8483	456	1555	8501	580	1980
	900	27	8453	220	752	8466	356	1214	8484	512	1748	8502	653	2228
	1000	30	8454	245	836	8467	396	1350	8485	570	1943	8503	726	2476
	1100	33	-	-	-	8468	435	1485	8486	627	2138	8504	798	2724
	1200	36	8456	294	1003	8469	475	1620	8487	683	2332	8505	871	2971
	1400	42	8457	343	1170	8470	554	1889	8488	797	2720	8506	1016	3467
	1600	48	8458	392	1339	8471	633	2160	8489	912	3110	8507	1161	3961
	1800	54	-	-	-	8472	712	2428	8490	1025	3499	8508	1306	4456
	2000	60	8459	490	1673	8473	791	2699	8491	1139	3887	8509	1451	4952
	2200	66	-	-	-	8474	870	2970	8492	1253	4275	8510	1597	5447
600	2400	72	8460	588	2007	8475	949	3238	8493	1367	4664	8511	1742	5943
	2600	78	-	-	-	8476	1028	3509	8494	1481	5054	8512	1886	6437
	2800	84	-	-	-	8477	1107	3778	8495	1595	5442	8513	2032	6932
	3000	90	-	-	-	8478	1187	4049	8496	1709	5830	8514	2177	7428
	400	12	8515	126	429	8528	206	703	8546	290	991	8564	366	1249
	500	15	8516	157	536	8529	258	879	8547	363	1239	8565	458	1562
	600	18	8517	188	643	8530	309	1054	8548	435	1485	8566	550	1875
	700	21	8518	220	750	8531	361	1230	8549	508	1733	8567	641	2188
	800	24	8519	251	858	8532	412	1406	8550	580	1980	8568	732	2499
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	1100	33	-	-	-	8535	567	1933	8553	798	2724	8571	1007	3437
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	1400	42	8524	440	1501	8537	721	2460	8555	1016	3467	8573	1282	4374
	1600	48	8525	503	1715	8538	824	2811	8556	1161	3961	8574	1465	4999
	1800	54	-	-	-	8539	927	3163	8557	1306	4456	8575	1648	5623
	2000	60	8526	628	2144	8540	1030	3514	8558	1451	4952	8576	1831	6249
	2200	66	-	-	-	8541	1133	3866	8559	1597	5447	8577	2015	6874
	2400	72	8527	754	2573	8542	1236	4217	8560	1742	5943	8578	2198	7498
	2600	78	-	-	-	8543	1339	4569	8561	1886	6437	8579	2381	8123
3000	2800	84	-	-	-	8544	1442	4920	8562	2032	6932	8580	2564	8747
	3000	90	-	-	-	8545	1545	5272	8563	2177	7428	8581	2747	9373
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	500	15	-	-	-	8596	294	1003	8614	411	1404	8632	518	1768
	600	18	-	-	-	8597	353	1204	8615	493	1683	8633	622	2121
	700	21	-	-	-	8598	411	1404	8616	576	1965	8634	725	2474
	800	24	-	-	-	8599	471	1606	8617	658	2246	8635	829	2827
	900	27	-	-	-	8600	529	1806	8618	740	2525	8636	932	3180
	1000	30	-	-	-	8601	588	2007	8619	822	2806	8637	1036	3534
	1100	33	-	-	-	8602	647	2207	8620	905	3087	8638	1139	3887
1200	36	-	-	-	8603	706	2407	8621	987	3367	8639	1243	4240	
1400	42	-	-	-	8604	823	2810	8622	1152	3929	8640	1450	4946	
1600	48	-	-	-	8605	941	3210	8623	1316	4490	8641	1657	5655	
1800	54	-	-	-	8606	1059	3613	8624	1481	5052	8642	1864	6361	
2000	60	-	-	-	8607	1176	4013	8625	1645	5612	8643	2071	7067	
2200	66	-	-	-	8608	1294	4414	8626	1809	6173	8644	2278	7774	
2400	72	-	-	-	8609	1412	4816	8627	1974	6735	8645	2485	8480	
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2800	84	-	-	-	8611	1647	5619	8629	2303	7858	8647	2900	9895	
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Weights & Measures



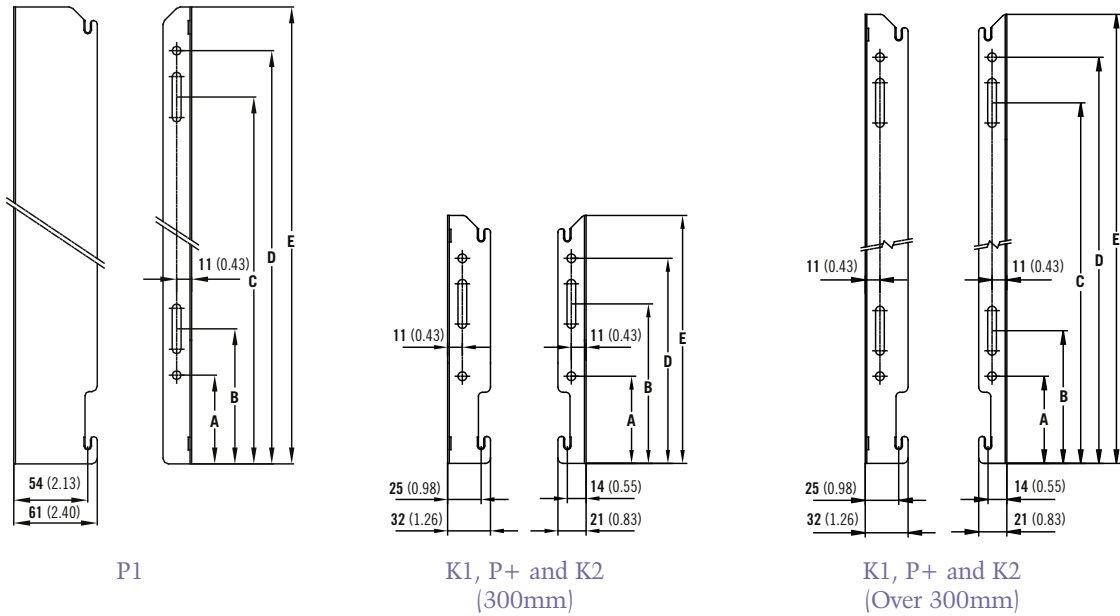
Height	Length		P1		K1		P+		K2	
	mm	in	Wall to tap centre mm	Wall to tap centre mm	Wall to tap centre mm	Wall to tap centre mm	Wall to tap centre mm	Wall to tap centre mm	Wall to tap centre mm	Wall to tap centre mm
300	500	19.7	-	51	62	73				
	1000	39.4	-	51	62	73				
	1500	59.1	-	51	62	73				
	2000	78.7	-	51	62	73				
	2500	98.4	-	51	62	73				
	3000	118.1	-	51	62	73				
450	400	15.7	46	51	62	73				
	500	19.7	46	51	62	73				
	600	23.6	46	51	62	73				
	700	27.6	46	51	62	73				
	800	31.5	46	51	62	73				
	900	35.4	46	51	62	73				
	1000	39.4	46	51	62	73				
	1100	43.3	-	51	62	73				
	1200	47.2	46	51	62	73				
	1400	55.1	46	51	62	73				
	1600	63.0	46	51	62	73				
	1800	70.9	-	51	62	73				
	2000	78.7	46	51	62	73				
	2200	86.6	-	51	62	73				
	2400	94.5	46	51	62	73				
	2600	102.4	-	51	62	73				
	2800	110.2	-	51	62	73				
	3000	118.1	-	51	62	73				
600	400	15.7	46	51	62	73				
	500	19.7	46	51	62	73				
	600	23.6	46	51	62	73				
	700	27.6	46	51	62	73				
	800	31.5	46	51	62	73				
	900	35.4	46	51	62	73				
	1000	39.4	46	51	62	73				
	1100	43.3	-	51	62	73				
	1200	47.2	46	51	62	73				
	1400	55.1	46	51	62	73				
	1600	63.0	46	51	62	73				
	1800	70.9	-	51	62	73				
	2000	78.7	46	51	62	73				
	2200	86.6	-	51	62	73				
	2400	94.5	46	51	62	73				
	2600	102.4	-	51	62	73				
	2800	110.2	-	51	62	73				
	3000	118.1	-	51	62	73				
700	400	15.7	-	51	62	73				
	500	19.7	-	51	62	73				
	600	23.6	-	51	62	73				
	700	27.6	-	51	62	73				
	800	31.5	-	51	62	73				
	900	35.4	-	51	62	73				
	1000	39.4	-	51	62	73				
	1100	43.3	-	51	62	73				
	1200	47.2	-	51	62	73				
	1400	55.1	-	51	62	73				
	1600	63.0	-	51	62	73				
	1800	70.9	-	51	62	73				
	2000	78.7	-	51	62	73				
	2200	86.6	-	51	62	73				
	2400	94.5	-	51	62	73				
	2600	102.4	-	51	62	73				
	2800	110.2	-	51	62	73				
	3000	118.1	-	51	62	73				

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

Type	P1			K1			P+				K2			
	450	600	300	450	600	700	300	450	600	700	300	450	600	700
W/m at 75/65/20	476	610	517	768	1000	1142	776	1106	1409	1597	1012	1409	1778	2011
n-coefficients	1.30	1.31	1.31	1.30	1.29	1.29	1.33	1.33	1.33	1.34	1.33	1.33	1.23	1.34
Heated Surface Area (m ² /m)	1.03	1.37	2.09	3.37	4.66	5.51	2.44	3.84	5.24	6.18	3.51	5.62	7.74	9.15
Weight (kg/m)	9.25	12.33	8.38	13.34	18.30	21.33	13.71	21.31	28.90	33.50	15.90	24.80	33.70	39.13
Water Contents (l/m)	2.57	3.25	1.89	2.57	3.25	3.77	3.70	5.15	6.60	7.63	3.70	5.15	6.60	7.63

Elite mounting brackets

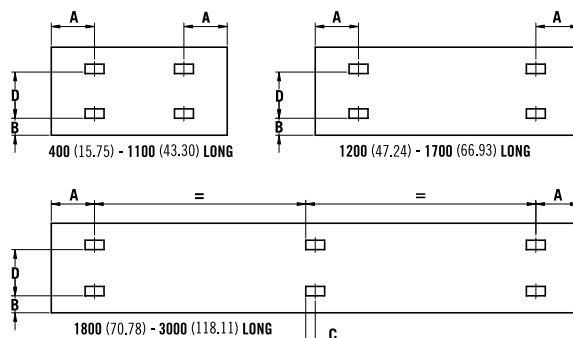
All dimensions in mm. Inches in brackets.



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

K1, P+, K2 and P1 lug positions

All dimensions in mm. Inches in brackets.

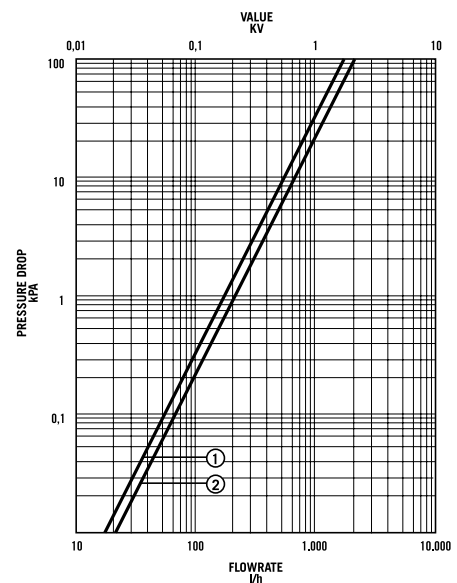


Dimensions		mm	in
A		133	5.24
B		60	2.36

Panel Height		D	
mm	in	mm	in
300	11.81	155	6.10
450	17.72	305	12.01
600	23.62	455	17.91
700	27.56	555	21.95

Dimensions		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

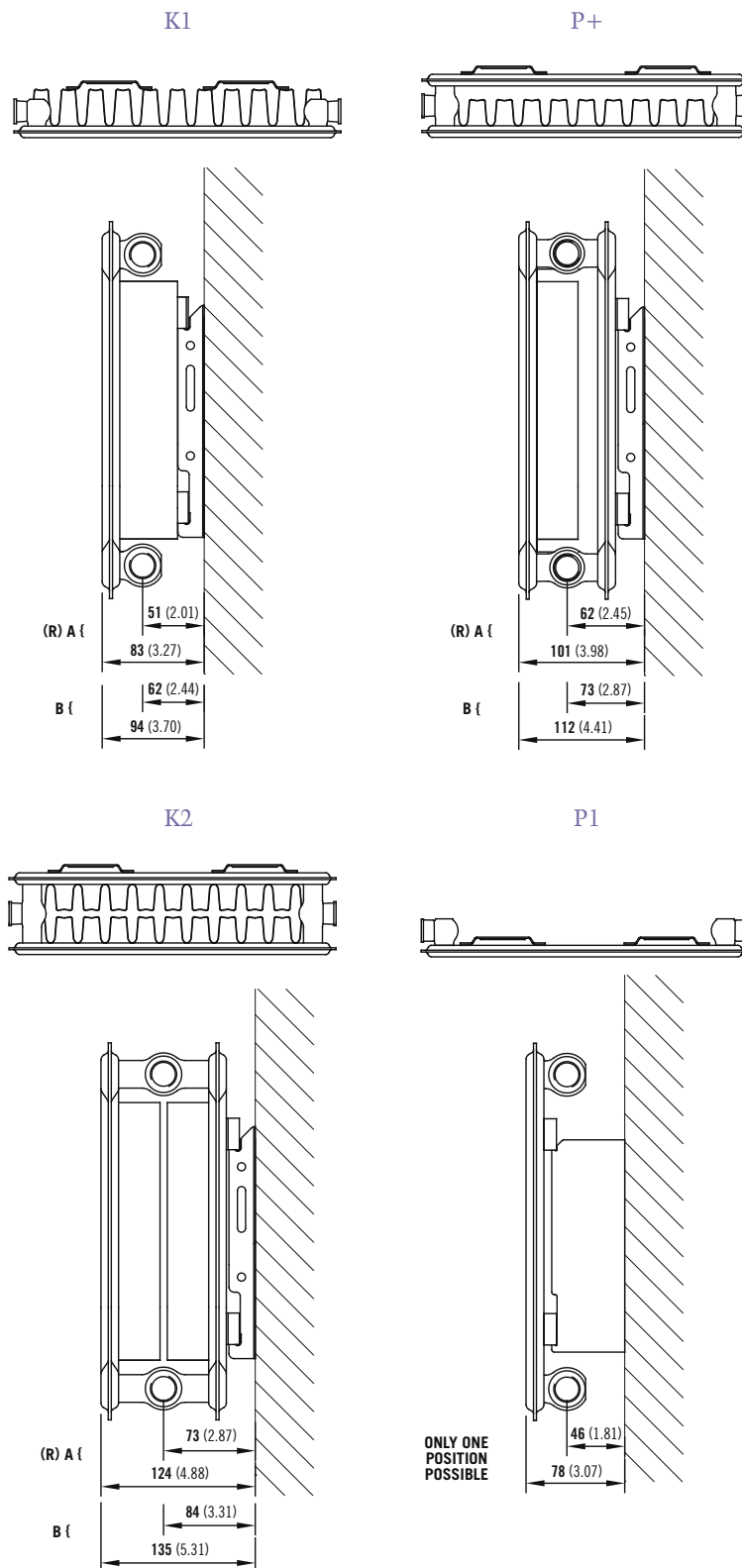
Pressure drops



- ① Type 10 (P1), 11 (K1)
- ② Type 21 (P+), 22 (K2)

Elite wall mounting information

All dimensions in mm. Inches in brackets.



Elite bracket position

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



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



Robust, but practical packaging protects the radiator during storage, transit and installation, complete with fittings and colour coded labels for easy identification.



All fixing requirements are complete within the packaging.



Continental and anti-lift brackets are available for a secure fixing in commercial applications.



Optional extension pieces for easy replacement.



Optional 3/4 inch valve adaptor for connection without performance reduction.



The Stelrad STARS Heatloss Calculator contains an inbuilt U value calculator.

Save time and effort by using the Stelrad STARS program – the perfect solution for accurate sizing and design flexibility.

Elite temperature table

TEMPERATURES

Factors for differences between mean water temperature and room temperature in °C and °F other than 50°C (90°F)

°C		°F	
5	0.050	10	0.057
10	0.123	20	0.142
15	0.209	30	0.240
20	0.304	40	0.348
25	0.406	50	0.466
30	0.515	60	0.590
35	0.629	70	0.721
40	0.748	80	0.858
45	0.872	90	1.000
50	1.000	100	1.147
55	1.132	110	1.298
60	1.267	120	1.454
65	1.406	130	1.613
70	1.549	140	1.776
75	1.694	-	-

To apply the factors shown in the table above 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 Elite range.

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 Elite radiator has 4 x 1/2 inch connections as standard. There is also a 3/4 inch valve adaptor available, which provides a 3/4 inch connector option to the valve without reducing performance.

Applications

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

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 minimising 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, complete with sealing washer, in 20mm, 30mm and 40mm options.

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

Caution

When designing for domestic systems we recommend that the Stelrad Elite be used only in heating systems complying with British Standard Code of Practice for Central Heating for Domestic Premises BS EN 12828:2003 and BS EN 12831:2003.

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 7593:2006.

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

If it is decided to apply a high performance corrosion inhibitor to maximise the working life of the system, it should be applied in accordance with the manufacturer's instructions and should be suitable for the particular metals within the system.

A comprehensive range of quality chemicals including inhibitors, cleaners, leak sealers and noise reducers that protect and maintain central heating systems can be obtained from:

Sentinel Performance Solutions Ltd
The Heath Business & Technical Park, Runcorn,
Cheshire WA7 4QX

Tel: 01928 588 330 (UK)

After installation of a new Stelrad radiator the central heating system should be cleaned and flushed with Fernox Cleaner F3 / F5 to remove existing contaminants, flux residue and other installation debris which, if left, can cause damage to the new radiator. Afterwards, treat the system with an inhibitor such as Fernox Protector F1 to ensure long term protection against corrosion and limescale.

Independently proven* to maintain system efficiency and achieve gas energy savings of up to 15% every time you heat a room, the combined use of Fernox Cleaner F3 and Protector F1 will ensure long-term performance, reduced carbon emissions and extend system life.

To improve heat transfer efficiency by allowing radiators to reach the desired temperature faster, simply dose the system with Fernox Energy Saver F6 to enjoy gas consumption savings of up to an additional 1.2%.

It is important to comply with British Standard BS 7593:2006; Code of practice for treatment of water in domestic hot water central heating systems, Part L of Building Regulations and Good Practice Guidance for Scotland.

*Carbon Trust 2011.

Fernox - Cookson Electronics,
Forsyth Road, Sheerwater, Woking,
Surrey GU21 5RZ

Tel: 01483 793200

www.fernox.com

Two coat paint process

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

The first coat of paint is applied by electrophoresis and the radiator is then stoved and cooled. The second powder coat is applied and the radiator goes through a final curing stage. It is then allowed to cool prior to packaging.