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**Radiator Design With Style and Imagination.
The Perfect Solution for Prestigious Applications.**

**MULTIPLE FLEXIBILITY WITH
DISTINCTIVE FEATURES**

The attractive flat, smooth surface and elegant integrated top grilles and side panels of the Stelrad Planar hide imaginative features that provide extra flexibility and ease of installation.

With 6 tappings the Stelrad Planar range allows the addition of integrated valve systems, giving multiple flexibility on any application and to make installation quick and simple there are 50mm centre connections on all radiator sizes.

For commercial environments where flexibility of piping is an important facility the Stelrad Planar is the perfect solution. The additional tappings and pipework are flush with the base of the radiator so that they cannot be seen when normal piping such as Top Bottom Opposite End (TBOE) is required.

**IMAGINATIVE CONSTRUCTION
WITH STYLE**

This imaginative design presents an exceptionally slim, attractive profile and a silk smooth surface that can be left as it is, or decorated to co-ordinate with the surrounding décor.

Supplied fully assembled, each Planar radiator comes with a directional air vent to direct water flow during venting. A choice of four heights and 62 models in the most popular sizes, provides outstanding heating performance.

Strictly controlled independent laboratory testing ensures that all Stelrad Planar 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.

SUPERB QUALITY WITH PEDIGREE


Manufactured by the UK market leader, under ISO 9000, the Stelrad Planar comes with an unequalled pedigree.

Convectors are precision welded directly onto the waterways to give greater efficiency and economy. All tappings are perfectly aligned, with best quality nickel-plated plugs and vents and the high definition pressings ensure smooth edges and corners.


The perfect solution for all prestigious heating applications, the Stelrad Planar comes complete with a 5 year Manufacturers Warranty as a measure of the all round dependable quality and performance.



THE
STELRAD
PLANAR




6 TAPPINGS AND AN INTEGRATED VALVE SYSTEM PROVIDE FLEXIBILITY OF INSTALLATION.



ELEGANT TOP GRILLES AND SIDE PANELS HIDE IMAGINATIVE DESIGN FEATURES.



ROBUST, PACKAGING PROTECTS THE RADIATOR DURING STORAGE AND TRANSIT.



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.



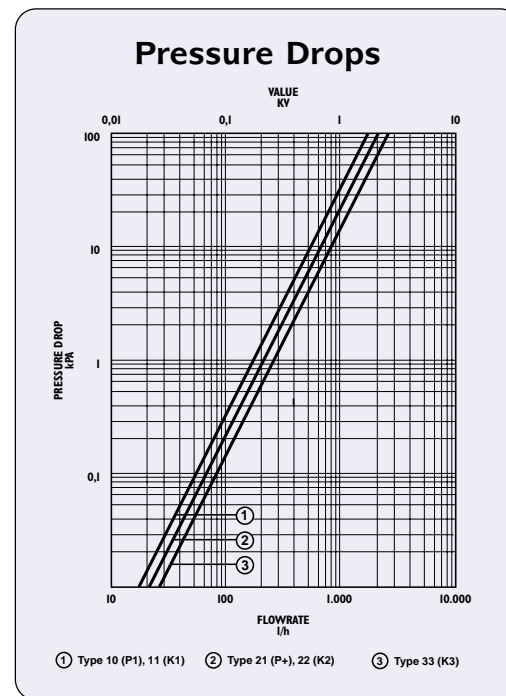
Stelrad Planar Technical Data & Dimensions

Outputs at Operating Temperature 90/70/20°C

HEIGHT	LENGTH (Approx)		SECTION	K1			K2		
	mm	in		Watts	Btu/hr	PRICE	Watts	Btu/hr	PRICE
300	500	19.7	15	297	1014	£47.64	588	2007	£58.25
	1000	39.4	30	595	2029	£62.56	1177	4015	£86.52
	1400	55.1	42	832	2840	£74.19	1647	5620	£105.70
	2000	78.7	60	1189	4058	£96.83	2353	8029	£140.06
	400	15.7	12	317	1081	£48.01	597	2038	£59.83
	600	23.6	18	475	1622	£54.59	896	3056	£69.44
400	800	31.5	24	634	2162	£60.28	1194	4075	£81.39
	1000	39.4	30	792	2703	£69.53	1493	5094	£97.04
	1200	47.2	36	951	3244	£75.68	1792	6113	£106.53
	1400	55.1	42	1109	3784	£83.81	2090	7132	£120.33
	1600	63.0	48	1268	4325	£92.09	2389	8150	£133.38
	1800	70.9	54	1426	4866	£102.33	2687	9169	£148.02
500	2000	78.7	60	1584	5406	£111.04	2986	10188	£161.45
	400	15.7	12	391	1334	£50.75	717	2446	£63.84
	600	23.6	18	587	2002	£58.51	1075	3670	£75.32
	800	31.5	24	782	2669	£65.24	1434	4893	£89.00
	1000	39.4	30	978	3336	£75.64	1792	6116	£106.46
	1200	47.2	36	1173	4003	£82.93	2151	7339	£117.76
600	1400	55.1	42	1369	4671	£92.11	2509	8562	£133.32
	1600	63.0	48	1564	5338	£101.48	2868	9786	£148.10
	1800	70.9	54	1750	6005	£113.01	3226	11009	£164.71
	2000	78.7	60	1955	6672	£122.81	3585	12232	£179.91
	400	15.7	12	459	1568	£53.67	832	2837	£68.57
	600	23.6	18	689	2352	£62.48	1247	4256	£81.46
600	800	31.5	24	919	3136	£70.39	1663	5675	£96.79
	1000	39.4	30	1149	3920	£82.17	2079	7093	£116.34
	1200	47.2	36	1378	4703	£90.34	2495	8512	£129.20
	1400	55.1	42	1608	5487	£100.60	2910	9931	£146.50
	1600	63.0	48	1838	6271	£111.09	3326	11349	£163.07
	1800	70.9	54	2068	7055	£123.90	3742	12768	£181.64
2000	78.7	60	2297	7839	£134.75	4158	14187	£198.59	

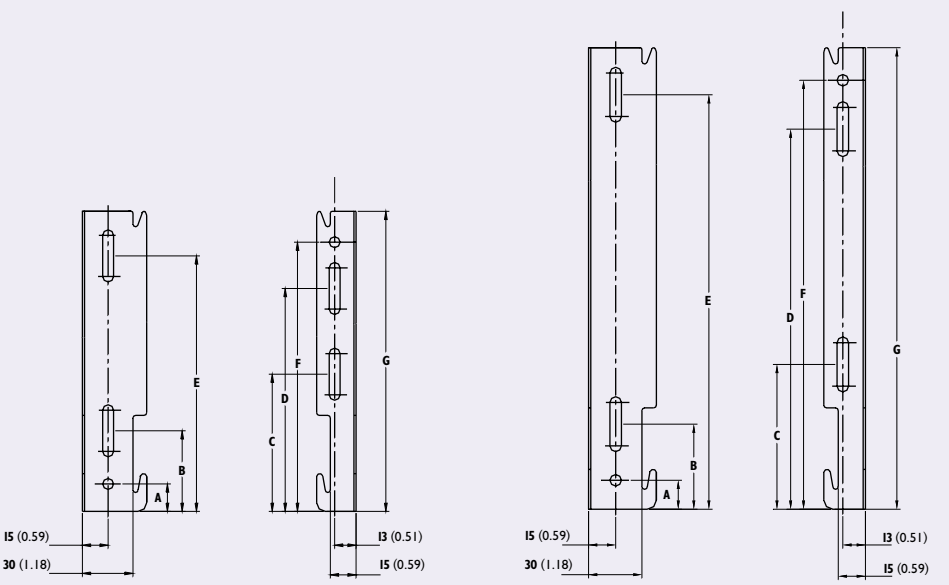
EN 442 Certification Data – HLK tested in accordance with BS EN 442

Type	K1				K2			
Height	300	400	500	600	300	400	500	600
W/m at 75/65/20	517	687	848	1000	1012	1281	1535	1778
n-coefficients	1.31	1.31	1.30	1.29	1.33	1.33	1.33	1.33
Heated Surface Area (m ²)	2.09	2.95	3.80	4.66	3.51	4.92	6.33	7.74
Weight (kg/m)	8.38	11.68	14.99	18.30	15.90	21.83	27.77	33.70
Water Contents (l/m)	1.89	2.34	2.80	3.25	3.70	4.67	5.63	6.60



Mounting Brackets

All dimensions in mm. Inches in brackets



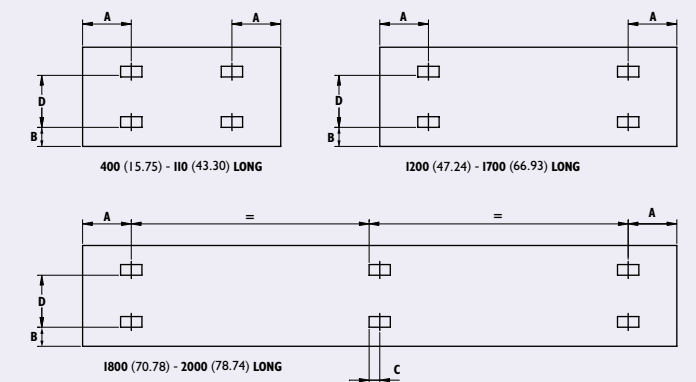
K1 and K2 (300 & 400mm)

K1 and K2 (500 & 600mm)

	DIMENSIONS mm (in)			
	600 (23.62)	500 (19.69)	400 (15.75)	300 (11.81)
A	16 (0.62)	16 (0.62)	16 (0.62)	16 (0.62)
B	47 (1.85)	47 (1.85)	47 (1.85)	47 (1.85)
C	80 (3.14)	80 (3.14)	80 (3.14)	80 (3.14)
D	430 (16.92)	330 (12.99)	230 (9.05)	130 (5.11)
E	449 (17.67)	349 (13.74)	249 (9.8)	149 (5.86)
F	457 (17.99)	357 (14.05)	257 (10.11)	157 (6.18)
G	475 (18.7)	375 (14.76)	275 (10.82)	175 (6.88)

K1 and K2 Lug Positions

All dimensions in mm. Inches in brackets



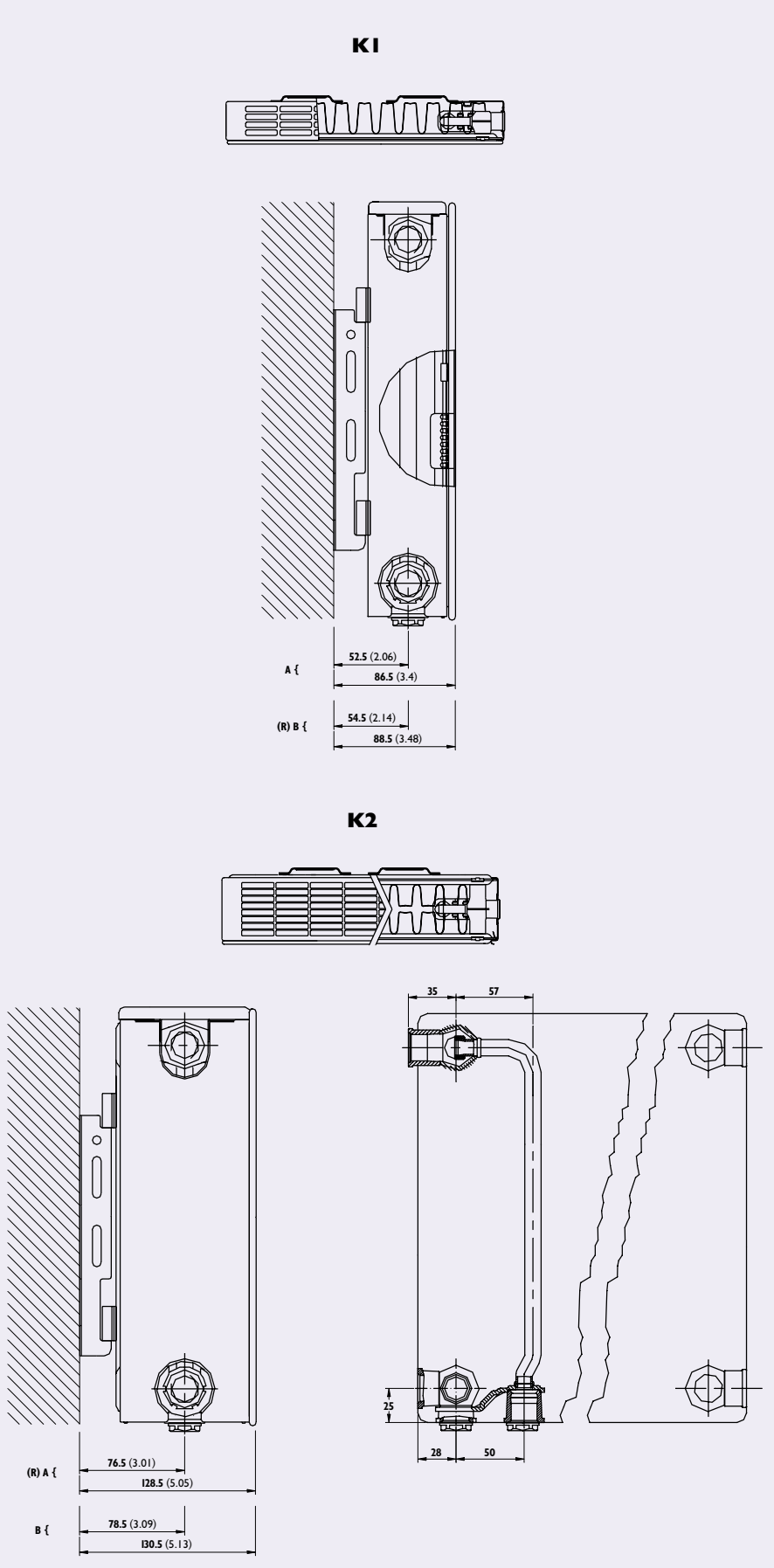
K2 mm (in)	
A	400 - 1100mm 133 (5.24)
A	1200 - 2000mm 267 (10.5)
B	60 (2.36)

K1 mm (in)	
A	400mm 117 (4.61)
A	500 - 1100mm 150 (5.91)
A	1200 - 2000mm 283 (11.14)
B	60 (2.36)
C	1800 - 3000mm 17 (0.67)

Panel Height	D
300 (11.81)	155 (6.10)
400 (15.75)	255 (10.04)
500 (19.69)	355 (13.98)
600 (23.62)	455 (17.93)

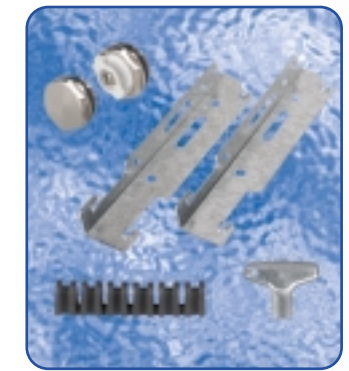
Wall Mounting Information

All dimensions in mm. Inches in brackets



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, WHERE SITUATIONS, SUCH AS FLOOR TO CEILING WINDOWS OR TILED WALLS, CREATE INSTALLATION DIFFICULTIES.



OPTIONAL EXTENSION PIECES FOR EASY REPLACEMENT.



OPTIONAL 1/4 INCH VALVE ADAPTOR FOR CONNECTION WITHOUT PERFORMANCE REDUCTION.

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.

TEMPERATURES			
Factors for differences between mean water temperature and room temperature in °C and °F other than 60°C (120°F)			
°C	°C	°F	
5°C	0.046	10°F	0.055
10°C	0.108	20°F	0.122
15°C	0.179	30°F	0.207
20°C	0.256	40°F	0.293
25°C	0.338	50°F	0.384
30°C	0.423	60°F	0.477
35°C	0.512	70°F	0.590
40°C	0.605	80°F	0.690
45°C	0.700	90°F	0.800
50°C	0.798	100°F	0.910
55°C	0.898	110°F	1.026
60°C	1.000	120°F	1.141
65°C	1.104	130°F	1.255
70°C	1.211	140°F	1.377
75°C	1.319		

To apply the factor to required output, divide required output by factor to give correct radiator from the Stelrad Planar 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 Planar radiator has 6 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. 50mm centre connections provide ease of installation on all radiator sizes.

APPLICATIONS

Planar 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 Planar is suitable for Microbore pipework, the back tapplings 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, 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 Planar 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 Planar 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 9010) is applied and the radiator goes through a final curing stage. It is then allowed to cool prior to packaging.