

the Stelrad planar

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

DISTINCTIVE FEATURES WITH FLEXIBILITY

With its flat, smooth surface, complemented by elegant, integrated top grilles and side panels, the Stelrad Planar offers a stylish alternative for a multitude of applications.

The exceptionally slim profile and silk smooth surface add to the overall attractive appearance providing an air of prestige which makes the Stelrad Planar the perfect choice for either domestic or commercial environments.

STYLE WITH IMAGINATIVE CONSTRUCTION

Supplied fully assembled, the Stelrad Planar radiator is easy to install.

Every model comes with a directional air vent to direct waterflow during venting, with convectors precision welded directly onto the waterways, to give greater efficiency and economy. In addition, all tappings are perfectly aligned, with best quality nickel-plated plugs and vents and the high definition pressings ensure smooth edges and corners.

Available with a choice of four heights and 62 models in the most popular sizes, the Planar range offers a wide range of outputs with outstanding heating performance.

SUPERB QUALITY WITH PEDIGREE

Manufactured by the UK market leader, under ISO 9000, the Stelrad Planar comes with an unequalled pedigree, with strictly controlled independent laboratory testing to ensure 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.

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.





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 75/65/20°C

HEIGHT

300

400

500

600

LENGTH (Approx)

mm

in

SECTION

KI



K2



Watts

Btu/hr

Watts

Btu/hr

500

19.7

15

235

800

465

1585

1000

39.4

30

469

1600

929

3170

1400

55.1

42

657

2240

1301

4438

2000

78.7

60

938

3200

1858

6339

400

15.7

12

250

854

471

1606

600

23.6

18

376

1282

706

2410

800

31.5

24

501

1709

942

3213

1000

39.4

30

626

2136

1177

4016

1200

47.2

36

751

2563

1412

4819

1400

55.1

42

876

2990

1648

5622

1600

63.0

48

1002

3417

1883

6425

1800

70.9

54

1127

3845

2119

7229

2000

78.7

60

1252

4272

2354

8032

400

15.7

12

310

1056

564

1926

600

23.6

18

464

1585

847

2889

800

31.5

24

619

2113

1129

3851

1000

39.4

30

774

2641

1411

4814

1200

47.2

36

929

3169

1693

5777

1400

55.1

42

1084

3697

1975

6740

1600

63.0

48

1238

4225

2258

7703

1800

70.9

54

1393

4754

2540

8666

2000

78.7

60

1548

5282

2822

9629

400

15.7

12

364

1243

654

2230

600

23.6

18

547

1865

980

3345

800

31.5

24

729

2487

1307

4460

1000

39.4

30

911

3108

1634

5575

1200

47.2

36

1093

3730

1961

6690

1400

55.1

42

1275

4352

2288

7805

1600

63.0

48

1458

4973

2614

8920

1800

70.9

54

1640

5595

2941

10035

2000

78.7

60

1822

6217

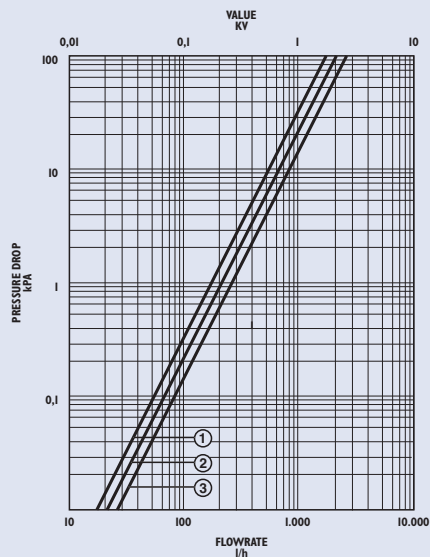
3268

11150

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

Type	KI				K2			
Height	300	400	500	600	300	400	500	600
W/m at 75/65/20	469	626	774	911	929	1177	1411	1634
n-coefficients	1.3013	1.2914	1.2815	1.2716	1.2958	1.3041	1.3123	1.3206
Heated Surface Area (m²/m)	2.09	2.95	3.80	4.66	3.51	4.92	6.33	7.74
Weight (kg/m)	11.88	16.13	20.39	24.65	19.60	26.40	33.20	40.00
Water Contents (l/m)	1.89	2.34	2.80	3.25	3.70	4.67	5.63	6.60

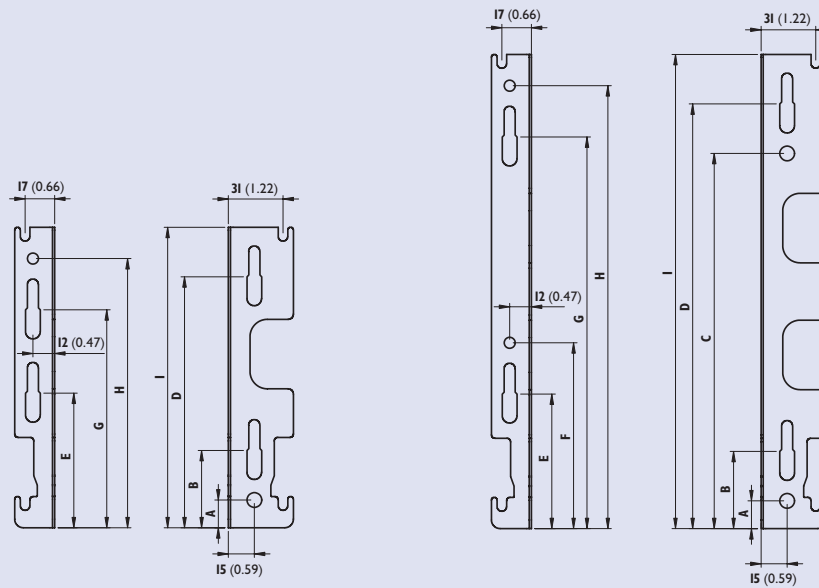
Pressure Drops



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

Mounting Brackets

All dimensions in mm. Inches in brackets



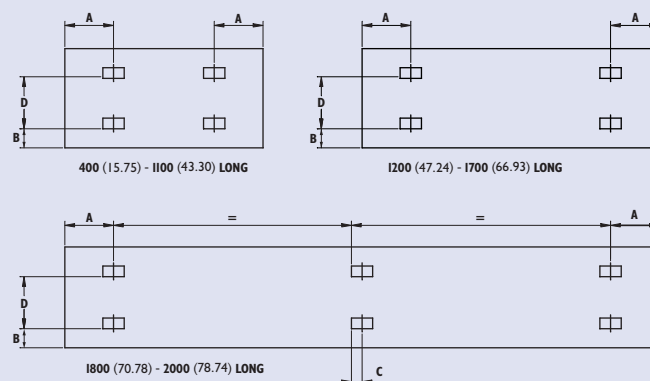
**K1 and K2
(300mm)**

**K1 and K2
(400, 500 & 600mm)**

	DIMENSIONS mm (in)			
	300 (11.81)	400 (15.75)	500 (19.69)	600 (23.62)
A	16 (0.62)	16 (0.62)	16 (0.62)	16 (0.62)
B	44 (1.73)	44 (1.73)	44 (1.73)	44 (1.73)
C	-	216 (8.50)	316 (12.44)	416 (16.37)
D	144 (5.66)	244 (9.60)	344 (13.54)	444 (17.48)
E	77 (3.03)	77 (3.03)	77 (3.03)	77 (3.03)
F	-	107 (4.21)	107 (4.21)	107 (4.21)
G	125 (4.92)	225 (8.85)	325 (12.79)	425 (16.73)
H	155 (6.10)	255 (10.03)	355 (13.97)	455 (17.91)
I	173 (6.81)	273 (10.74)	373 (14.68)	473 (18.62)

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)

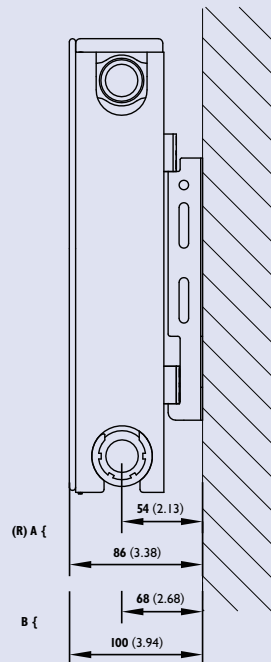
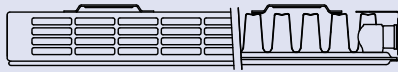
	K1 mm (in)	
A	400mm	117 (4.61)
A	500 - 1100mm	150 (5.91)
A	1200 - 2000mm	283 (11.14)
B		60 (2.36)
C	1800 - 3000mm	17 (0.67)

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)

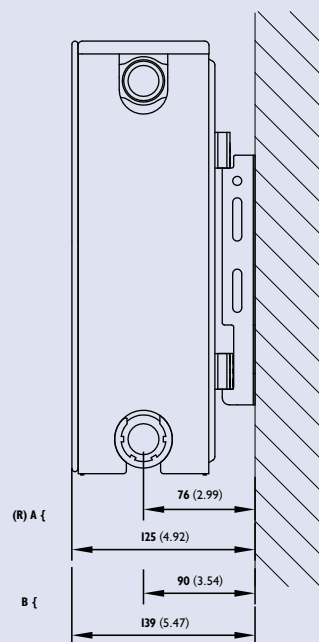
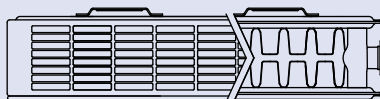
Wall Mounting Information

All dimensions in mm. Inches in brackets

K1



K2



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 $\frac{3}{4}$ 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 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		

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 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

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 tappings make it unsuitable for twin entry valves.

For further information and advice call Technical Support on: 0870 8498056

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 dipping 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.



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



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