



COMMERCIAL HEATING SOLUTIONS



PANEL RADIATORS

Units 13-14 Charlwoods Road  
East Grinstead, West Sussex, RH19 2HU  
[www.clyderadiators.co.uk](http://www.clyderadiators.co.uk) 01342 305550

A brand of IRSAP, Italy's leading manufacturer of design led radiators.

EDS 828/2 04.09.18

# Contents

Clyde is a brand of the IRSAP, Italy's leading manufacturer of design led radiators. With over 50 years experience, we have the expertise to produce the best in quality & customer service.

Clyde provides bespoke solutions for LSTs, Cast Iron, Multi Column and Aluminium radiators. With a wide range of traditional and contemporary radiators, Clyde's solution based approach is designed to ensure we supply the ideal solution for all commercial and industrial requirements.

Our dedicated team of technical advisors and estimators will discuss your installation including the calculation of your heat output requirements (from drawings if necessary), arrange a full quotation based on your exact project specifications and provide lead times. They can also arrange a site visit from our National Sales Network if required.

For more information about Clyde or any of our products, please contact our customer service department: 01342 305522 / 305566

Type 11	4-5
Type 21 (P+) Horizontal	6-7
Type 22	8-9
Type 21 (P+) Vertical	10-11
Installation	12-14

# TYPE 11



## TECHNICAL DATA

### PRODUCT FEATURES

- Single steel flat panel
- Single convector
- 3 heights
- 12 widths
- Pipework connection size is R $\frac{1}{2}$  Flow and Return BOE.
- Test Pressure: 13 Bar
- Max. Operating Pressure: 8 Bar
- Max. Working Temperature: 110°C



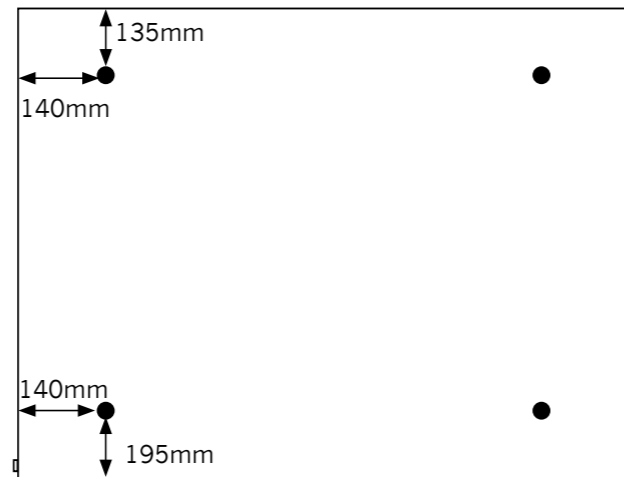
### HEAT EMISSION RATES

- $\Delta T50$  (75°C / 65°C / 20°C)
- $\Delta T55.5$  (82°C / 71°C / 21°C)
- $\Delta T60$  (90°C / 70°C / 20°C)
- BS EN 442-1 conditions of  $\Delta T50$

### RANGE SELECTION

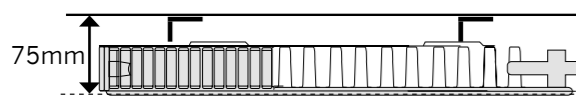
- 3 heights; 400mm, 500mm, 600mm
- 12 widths from 400mm to 2000mm
- BOE (Bottom Opposite End) Connections

### TECHNICAL DRAWINGS



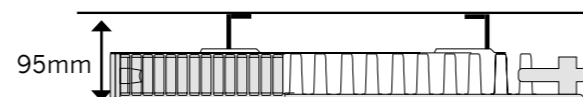
● = Bracket Positions

### Shorter side of bracket protruding



Pipe centres left to right = Width plus valves  
 Pipe centres from wall = 32mm  
 Depth from wall = 75mm

### Longer side of bracket protruding



Pipe centres left to right = Width plus valves  
 Pipe centres from wall = 52mm  
 Depth from wall = 95mm

Both the long and short side can be used to hang on the Type11

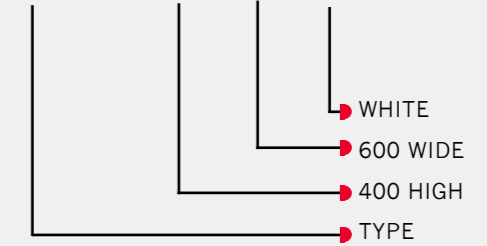
## TYPE 11 SIZES $\Delta T50$ , $\Delta T55.5$ & $\Delta T60$

### RADIATOR MODELS & CODES

- Tables below give outputs for each model height at 3  $\Delta T$ 's for easy reference.
- 1st column = model reference (see right)
- 2nd = height reference
- 3rd column = width reference
- 4th column = colour reference

### MODEL CODE (example)

**TYPE11 40 60 W**



### SELECTING YOUR TYPE 11 FLAT PANEL;

- Choose model, height, length, depth and output as above

Clyde Model	Dimensions (mm)			Weight (kg)	Output $\Delta T 50^\circ\text{C}$		Output $\Delta T 55.5^\circ\text{C}$		Output $\Delta T 60^\circ\text{C}$	
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's
TYPE114060	400	600	70	6.3	380	1297	435	1485	480	1639
TYPE114080		800	70	8.4	506	1726	580	1978	640	2182
TYPE114010		1000	70	10.5	633	2160	725	2474	800	2730
TYPE114012		1200	70	12.6	760	2593	871	2970	961	3278
TYPE114014		1400	70	14.7	886	3023	1015	3463	1120	3821
TYPE114016		1600	70	16.8	1013	3456	1160	3959	1280	4368
TYPE114018		1800	70	18.9	1139	3886	1305	4451	1440	4912
TYPE114020		2000	70	21.0	1265	4316	1449	4944	1599	5456
TYPE115040	500	400	70	5.4	301	1027	345	1176	380	1298
TYPE115060		600	70	8.1	452	1542	518	1766	571	1949
TYPE115080		800	70	10.8	602	2054	690	2353	761	2596
TYPE115010		1000	70	13.5	752	2566	861	2939	951	323
TYPE115012		1200	70	16.2	903	3081	1034	3529	1141	3894
TYPE115014		1400	70	18.8	1053	3593	1206	4115	1331	4541
TYPE115016		1600	70	21.4	1204	4108	1379	4705	1522	5193
TYPE115018		1800	70	24.2	1355	4623	1552	5295	1713	5844
TYPE115020	2000	70	26.9	1505	5135	1724	5882	1902	6491	
TYPE116040	600	400	70	6.7	347	1184	397	1356	439	1497
TYPE116060		600	70	10.1	522	1781	598	2040	660	2251
TYPE116070		700	70	11.8	608	2074	693	2365	766	2614
TYPE116080		800	70	13.4	696	2375	797	2720	880	3002
TYPE116090		900	70	15.1	782	2668	891	3040	985	3361
TYPE116010		1000	70	16.8	869	2965	995	3396	1098	3748
TYPE116011		1100	70	18.5	957	3265	1090	3719	1205	4111
TYPE116012		1200	70	20.2	1043	3559	1195	4076	1318	4499
TYPE116014		1400	70	23.5	1217	4152	1394	4756	1538	5248
TYPE116016		1600	70	26.9	1391	4746	1593	5436	1758	5999
TYPE116018		1800	70	30.2	1565	5340	1793	6116	1978	6750
TYPE116020		2000	70	33.6	1739	5933	1992	6796	2198	7500

If you are looking to have your Flat Panel radiator in an alternative colour we offer a select range of RAL colours, please see page 15 for more information.

# TYPE 21 (P+) Horizontal



## TECHNICAL DATA

### PRODUCT FEATURES

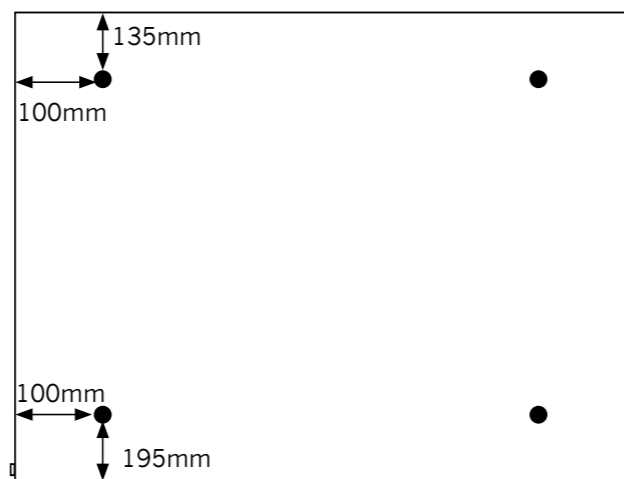
- Double steel flat panel
- Single convector
- 1 height
- 5 widths
- Pipework connection size is R $\frac{1}{2}$  Flow and Return BOE.
- Test Pressure: 13 Bar
- Max. Operating Pressure: 8 Bar
- Max. Working Temperature: 110°C



### HEAT EMISSION RATES

- $\Delta T50$  (75°C / 65°C / 20°C)
- $\Delta T55.5$  (82°C / 71°C / 21°C)
- $\Delta T60$  (90°C / 70°C / 20°C)
- BS EN 442-1 conditions of  $\Delta T50$

### TECHNICAL DRAWINGS



● = Bracket Positions

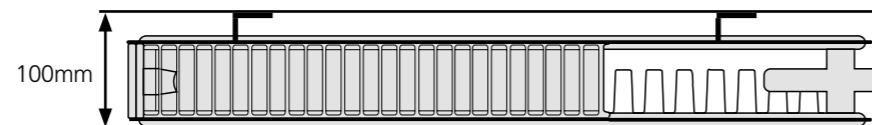
### RANGE SELECTION

- 1 height of 600mm
- 5 widths from 600mm to 1400mm
- Standard connection BOE (Bottom Opposite End)



We recommend using the short side to hang the Type 21

Type 21 (P+) - with shorter side protruding



Pipe centres left to right = Width plus valves  
 Pipe centres from wall = 58mm  
 Depth from wall = 100mm

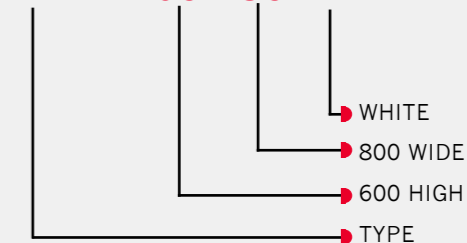
## TYPE 21 (P+) HORIZONTAL SIZES $\Delta T50$ , $\Delta T55.5$ & $\Delta T60$

### RADIATOR MODELS & CODES

- Tables below give outputs for each model height at 3  $\Delta T$ 's for easy reference.
- 1st column = model reference (see right)
- 2nd = height reference
- 3rd column = width reference
- 4th column = colour reference

### MODEL CODE (example)

**TYPE21 60 80 W**



### SELECTING YOUR TYPE 21 (P+) FLAT PANEL HORIZONTAL;

- Choose model, height, length, depth and output as above

Clyde Model	Dimensions (mm)			Weight (kg)	Output $\Delta T 50^\circ\text{C}$		Output $\Delta T 55.5^\circ\text{C}$		Output $\Delta T 60^\circ\text{C}$	
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's
TYPE216060	600	600	75	19.5	729	2487	835	2849	921	3144
TYPE216080		800	75	26	972	3316	1113	3799	1229	4192
TYPE216010		1000	75	32.5	1215	4146	1392	4748	1536	5240
TYPE216012		1200	75	39	1458	4975	1670	5698	1843	6288
TYPE216014		1400	75	45.5	1701	5804	1948	6648	2150	7336

If you are looking to have your Flat Panel radiator in an alternative colour we offer a select range of RAL colours, please see page 15 for more information.

# TYPE 22



## TECHNICAL DATA

### PRODUCT FEATURES

- Double steel flat panel
- Double convector
- 4 heights
- 12 widths
- Pipework connection size is R $\frac{1}{2}$  Flow and Return BOE.
- Test Pressure: 13 Bar
- Max. Operating Pressure: 8 Bar
- Max. Working Temperature: 110°C



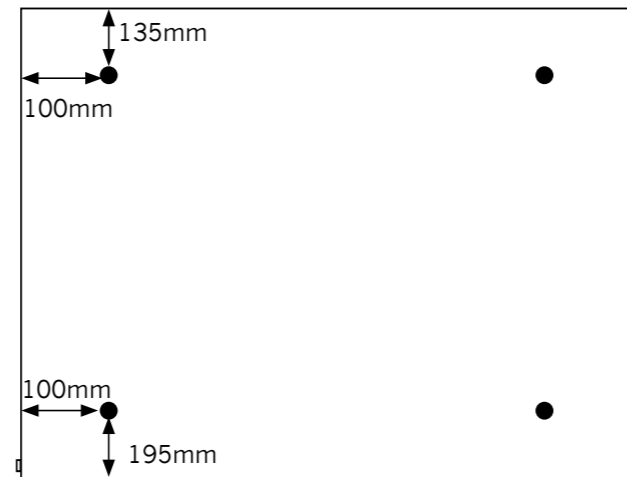
### HEAT EMISSION RATES

- $\Delta T50$  (75°C / 65°C / 20°C)
- $\Delta T55.5$  (82°C / 71°C / 21°C)
- $\Delta T60$  (90°C / 70°C / 20°C)
- BS EN 442-1 conditions of  $\Delta T50$

### RANGE SELECTION

- 4 heights from 300mm to 600mm
- 12 widths from 400mm to 2000mm
- BOE (Bottom Opposite End) Connections

### TECHNICAL DRAWINGS



● = Bracket Positions

Type 22 - with shorter side protruding



Pipe centres left to right = Width plus valves  
 Pipe centres from wall = 75mm  
 Depth from wall = 125mm

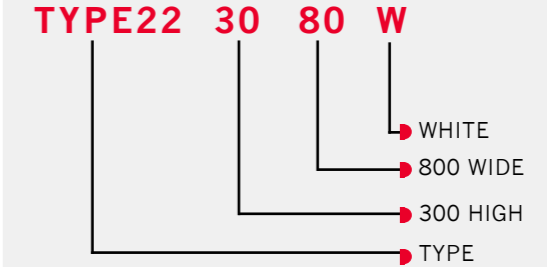
We recommend using the short side to hang the Type 22

## TYPE 22 HORIZONTAL SIZES $\Delta T50$ , $\Delta T55.5$ & $\Delta T60$

### RADIATOR MODELS & CODES

- Tables below give outputs for each model height at 3  $\Delta T$ 's for easy reference.
- 1st column = model reference (see right)
- 2nd = height reference
- 3rd column = width reference
- 4th column = colour reference

### MODEL CODE (example)



### SELECTING YOUR TYPE 22 FLAT PANEL;

- Choose model, height, length, depth and output as above

Clyde Model	Dimensions (mm)			Weight (kg)	Output $\Delta T 50^\circ\text{C}$		Output $\Delta T 55.5^\circ\text{C}$		Output $\Delta T 60^\circ\text{C}$	
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's
TYPE223080	300	800	102	15.76	702	2395	804	2743	887	3028
TYPE223010		1000	102	19.7	878	2996	1006	3431	1110	3787
TYPE223012		1200	102	23.64	1053	3593	1206	4115	1331	4541
TYPE223014		1400	102	27.58	1229	4193	1408	4803	1553	5300
TYPE223016		1600	102	31.52	1404	4790	1608	5487	1775	6055
TYPE223018		1800	102	35.46	1580	5391	1810	6175	1997	6814
TYPE224040	400	400	102	9.74	448	1529	513	1751	566	1932
TYPE224060		600	102	14.62	672	2293	770	2626	849	2898
TYPE224080		800	102	19.49	896	3057	1026	3502	1133	3864
TYPE224090		900	102	18.9	1009	3443	1150	3924	1271	4337
TYPE224010		1000	102	24.36	1121	3825	1284	4381	1417	4835
TYPE224012		1200	102	29.23	1345	4589	1541	5256	1700	5801
TYPE224014		1400	102	34.1	1569	5353	1797	6132	1983	6767
TYPE224016		1600	102	38.98	1793	6118	2054	7007	2266	7733
TYPE224018		1800	102	43.85	2017	6882	2310	7883	2549	8699
TYPE224020		2000	102	48.72	2241	7646	2567	8758	2833	9665
TYPE225040	500	400	102	12.02	541	1846	620	2114	684	2333
TYPE225060		600	102	18.03	811	2767	929	3169	1025	3498
TYPE225080		800	102	24.04	1082	3692	1239	4229	1368	4666
TYPE225010		1000	102	30.05	1352	4613	1549	5284	1709	5831
TYPE225012		1200	102	36.06	1622	5534	1858	6339	2050	6995
TYPE225014		1400	102	42.07	1893	6459	2168	7398	2393	8164
TYPE225016		1600	102	48.08	2163	7380	2478	8453	2734	9329
TYPE225018		1800	102	54.09	2434	8305	2788	9512	3077	10497
TYPE225020		2000	102	60.1	2704	9226	3097	10568	3418	11662
TYPE226040		600	400	102	33.23	650	2218	745	2540	822
TYPE226060	600		102	22.5	976	3330	1118	3814	1234	4209
TYPE226070	700		102	22.8	1138	3883	1297	4425	1433	4889
TYPE226080	800		102	30	1301	4439	1490	5084	1644	5611
TYPE226090	900		102	29.6	1463	4992	1667	5688	1843	6288
TYPE226010	1000		102	37.5	1625	5545	1861	6351	2054	7009
TYPE226011	1100		102	35.8	1788	6101	2038	6954	2252	7684
TYPE226012	1200		102	45	1950	6653	2234	7620	2465	8409
TYPE226014	1400		102	52.5	2275	7762	2606	8891	2879	9811
TYPE226016	1600		102	60	2601	8875	2979	10165	3288	11218
TYPE226018	1800		102	67.5	2926	9984	3351	11436	3698	12620
TYPE226020	2000		102	75	3251	11092	3724	12705	4109	14021

If you are looking to have your Flat Panel radiator in an alternative colour we offer a select range of RAL colours, please see page 15 for more information.

# TYPE 21 (P+) Vertical



## TECHNICAL DATA

### PRODUCT FEATURES

- Double steel flat panel
- Single convector
- 2 heights; 1600mm and 1800mm
- 2 widths; 500mm and 600mm
- Pipework underneath connection size is R $\frac{1}{2}$  Flow and Return
- Test Pressure: 13 Bar
- Max. Operating Pressure: 10 Bar
- Max. Working Temperature: 110°C



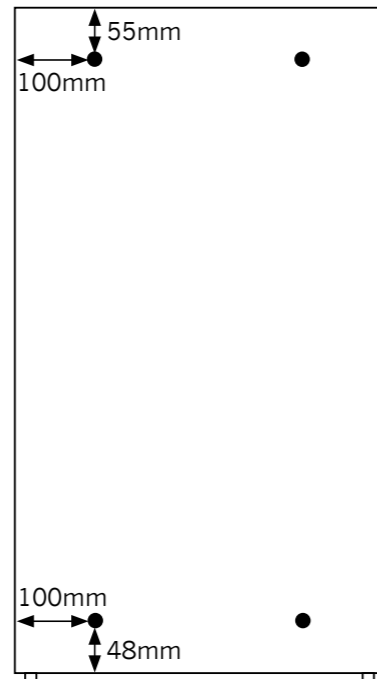
### HEAT EMISSION RATES

- $\Delta T50$  (75°C / 65°C / 20°C)
- $\Delta T55.5$  (82°C / 71°C / 21°C)
- $\Delta T60$  (90°C / 70°C / 20°C)
- BS EN 442-1 conditions of  $\Delta T50$

### RANGE SELECTION

- 2 heights of 1600mm & 1800mm
- 2 widths of 500mm & 600mm
- Underneath connections

### TECHNICAL DRAWINGS



● = Bracket Positions

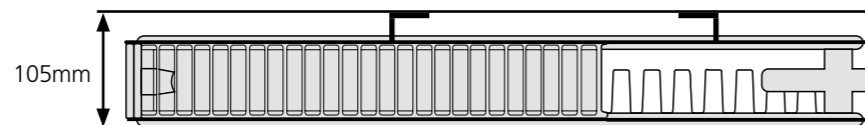
Top Bracket



Bottom Bracket



Pipe centres left to right = Width minus 50mm  
 Pipe centres from wall = 67mm  
 Depth from wall = 105mm



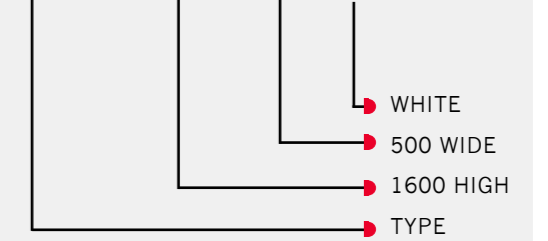
## TYPE 21 (P+) VERTICAL SIZES $\Delta T50$ , $\Delta T55.5$ & $\Delta T60$

### RADIATOR MODELS & CODES

- Tables below give outputs for each model height at 3  $\Delta T$ 's for easy reference.
- 1st column = model reference (see right)
- 2nd = height reference
- 3rd column = width reference
- 4th column = colour reference

### MODEL CODE (example)

**TYPE21 160 50 W**



### SELECTING YOUR TYPE 21 (P+) VERTICAL FLAT PANEL;

- Choose model, height, length, depth and output as above

Clyde Model	Dimensions (mm)			Weight (kg)	Output $\Delta T 50^\circ\text{C}$		Output $\Delta T 55.5^\circ\text{C}$		Output $\Delta T 60^\circ\text{C}$	
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's
TYPE211650	1600	500	75	41.4	1666	5684	1899	6479	2099	7162
TYPE211660		600	75	52	1944	6633	2216	7561	2449	8356
TYPE211850	1800	500	75	46.5	1875	6398	2137	7291	2362	8059
TYPE211860		600	75	58.5	2187	7462	2493	8506	2755	9400

If you are looking to have your Flat Panel radiator in an alternative colour we offer a select range of RAL colours, please see page 15 for more information.

### OPTIONAL TOWEL BAR



Model	Width	Weight (kg)
TYPE21VTB50	500	1
TYPE21VTB60	600	1

## INSTALLATION

### COMMISSIONING

- In accordance with Part L1 2006 of the Building Regulations and BS7593:1992 code of practice for the treatment of hot water and central heating systems, we strongly recommend flushing the heating system post installation of new radiators and then adding the correct quantity and type of inhibitor for use with your radiator and system to prevent corrosion. Damage caused to systems not protected by a suitable inhibitor will not be covered by manufacturer's guarantee

### PRELIMINARY

Before unpacking, please ensure that the delivered sizes and quantity are correct. Any shortages or damages must be notified to Clyde Radiators in writing within 7 days; Clyde Radiators, 13-14 Charlwoods Road, East Grinstead, West Sussex, RH19 2HU.

Unpack carefully and inspect the convector, cover and fittings.

The following items should be identified;

- 2 Wall Brackets = Type 11, 21 P(+) Horizontal, 22
- 4 Wall Brackets = Type 21 P(+) Vertical
- 1 Manual Airvent

For Type 11, 21 (P+) Horizontal & 22 installation instructions please see adjacent page.

For Type 21 (P+) Vertical instructions please see page 15.

You will need:

- Tape Measure
- Electric drill and bits
- Suitable wall fixings
- Airvent key
- Spirit level
- Spanner for valves and vents

FIG 1. FLAT PANEL TYPE 11, 21, 22 BRACKET

#### Please Note:

Type 11 radiators can be hung on either side of the bracket.

For Type 21(P+) Horizontal and Type 22 radiators we recommend hanging on the shorter side.



FIG 2. FLAT PANEL TYPE 21 (P+) VERTICAL BRACKETS



Top Bracket



Bottom Bracket

## INSTALLATION for Type 11, 21(P+) Horizontal and 22

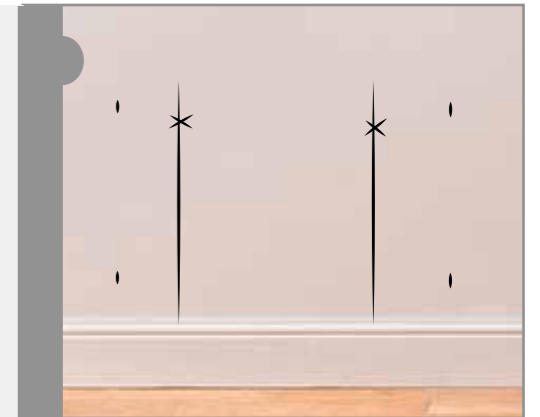
You will see that the universal brackets supplied have a shorter and longer side. Type 11 radiators can be hung on either side of the bracket, but for Type 21(P+) Horizontal and Type 22 radiators we recommend hanging on the shorter side.

### STEP 1

- Position the radiator against the wall in its final position and mark the edges of the radiator on the top and bottom.
- Measure in from the side, using dimensions from the appropriate drawings, and draw a straight vertical line using a spirit level

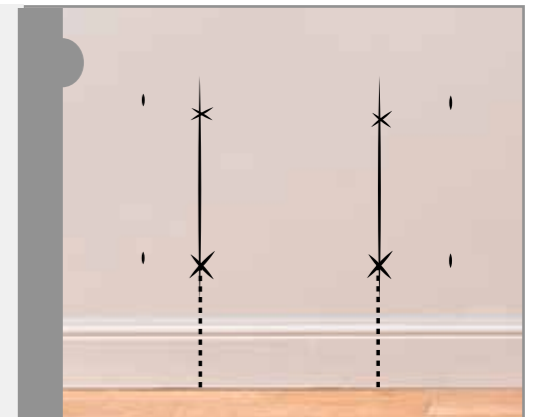
Dimension References:

Type 11 : Page 6, Type 21: page 8, Type 22: page 10.



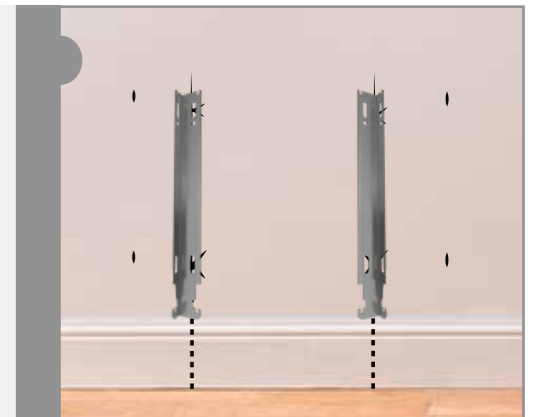
### STEP 2

- To position the height of the brackets, measure up from the floor the distance where the bottom of the radiator will sit, and then make a mark another 195mm up which will be the position of the bottom of the brackets



### STEP 3

- Offer up the brackets to line up with the markings, then mark the position for the top bracket holes.
- Check all markings are level with a spirit level.



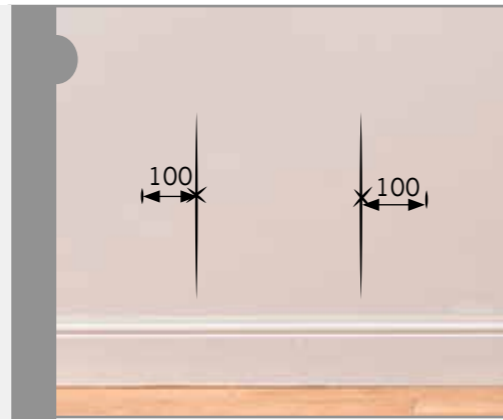
### STEP 4

- Secure the brackets to the wall using suitable wall fixings and fit the protective plastic caps and hang the radiator.

## INSTALLATION for Type 21 (P+) Vertical

### STEP 1

- Position radiator against the wall. Mark either side. Measure 100mm inside these and mark.



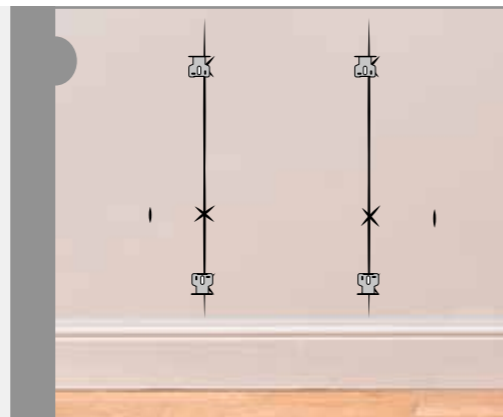
### STEP 2

- The fixing holes for base brackets are positioned 48mm above the bottom of the radiator. (see page 12 for dimension drawings). Measure up from the floor where the bottom of the radiator will sit, plus 48mm for the bracket position.
- Fix the base brackets to the wall ensuring they are horizontally level



### STEP 3

- Once the base brackets are fitted, rest the radiator on the brackets and mark the top of the radiator on the wall. Using a spirit level draw a vertical line up from the base bracket fixing point.
- Measure 55mm down the lines and mark. This is the position for the top bracket (see page 12 for dimension drawings)
- Fix brackets to the wall using suitable wall fixings.



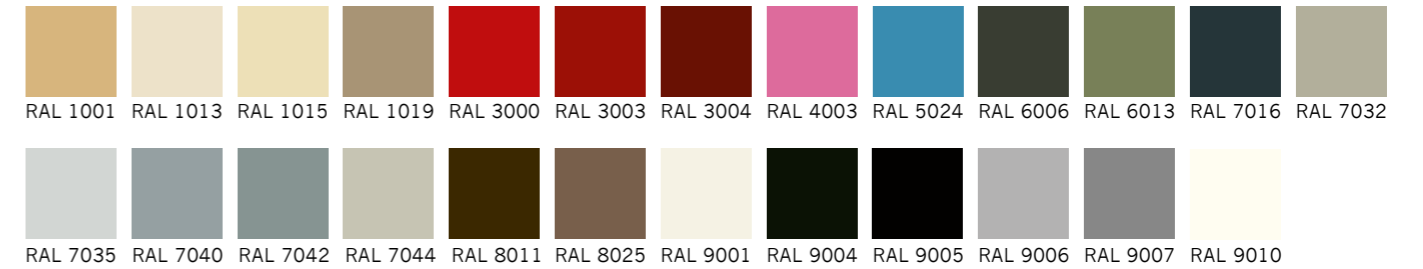
### STEP 4

- To hang the radiator, position on the base brackets, and push the top catches of the top brackets down and tighten to secure.



## FLAT PANEL COLOUR OPTIONS

If you are looking to have your Flat Panel radiator in an alternative colour we offer 25 RAL colour options which are shown below, please specify chosen colour at time of order.



The final finish is a satin, almost matt, (30% gloss level) similar to eggshell.

To discuss a quotation for other colours outside of the above range please call 01342 305550

## VALVES

Choose our AYR TRV valve to complement your flat panel.

### AYR TRV

- Pipe centres allow an extra 70mm in total
- Ayr valves are Bi-directional.
- Available in White or Chrome
- R $\frac{1}{2}$  x 15mm compression in angled or straight
- Supplied in pairs of one thermostatic valve & one lockshield



## OTHER CLYDE PRODUCTS



### COMMERCIAL HEATING SOLUTIONS

- Lightweight & Efficient Sectional Aluminum
- Sectional Cast Iron in 4 styles
- Sectional Steel Multi Column in over 3200 sizes
- 2 Bespoke LST options, made to specification
- Trench: Practical aluminium convector for underfloor heating
- Mini: Aluminium and copper convector, in steel casing with aluminium grille



[www.clyderadiators.co.uk](http://www.clyderadiators.co.uk)