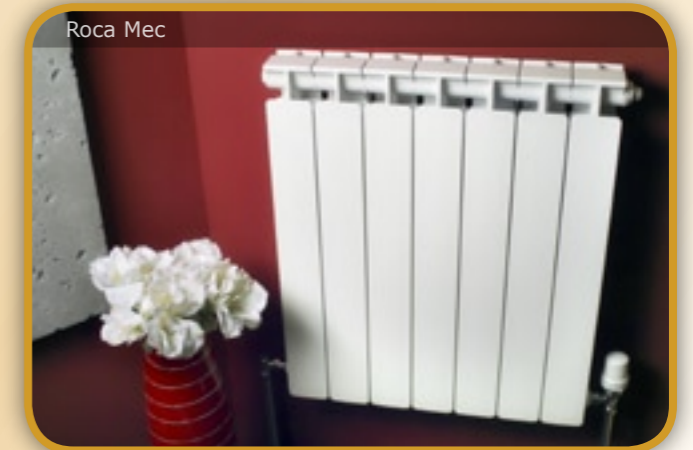
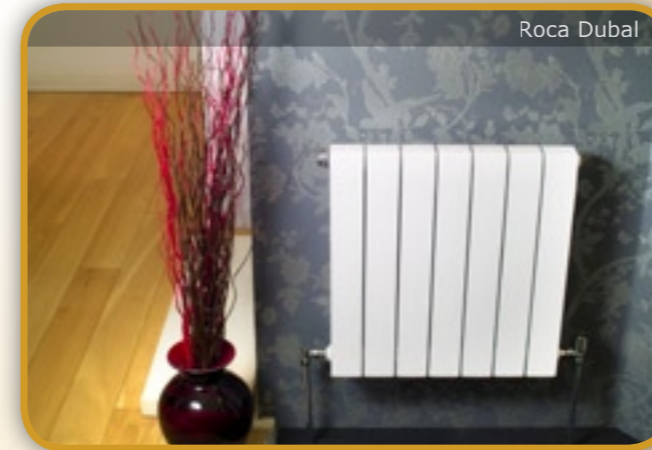
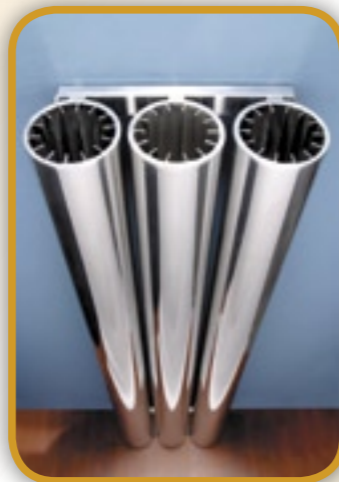
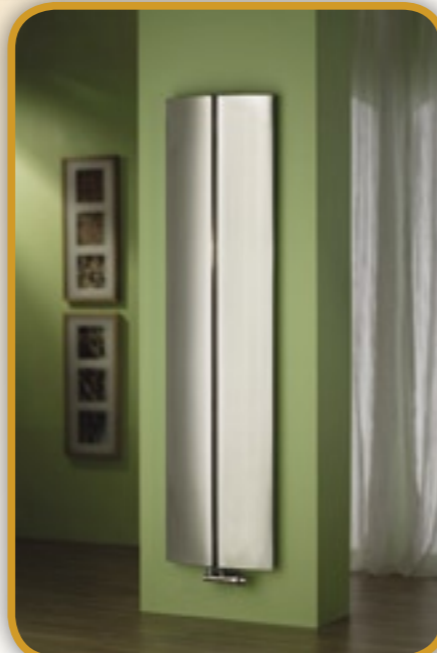
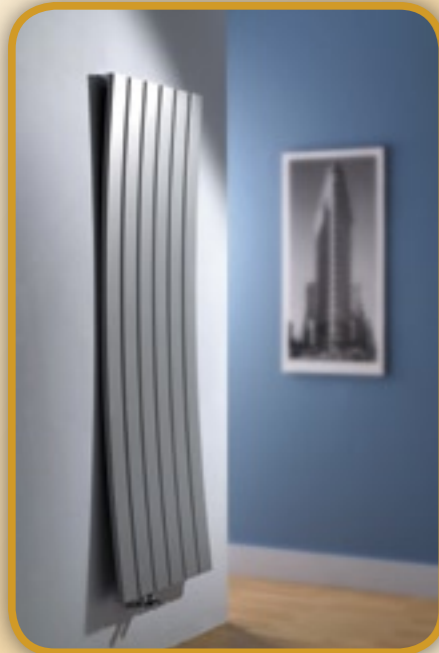
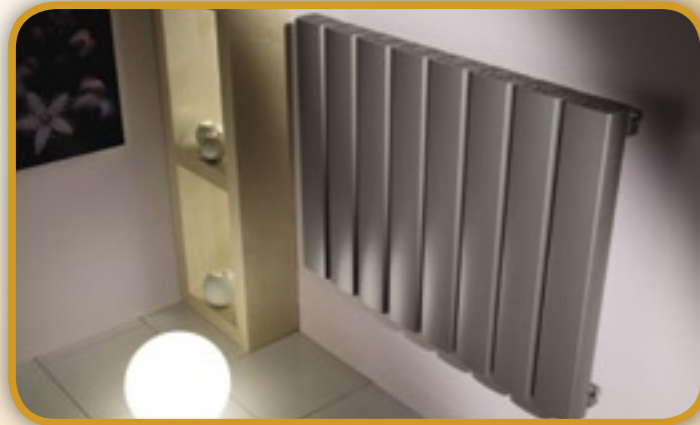


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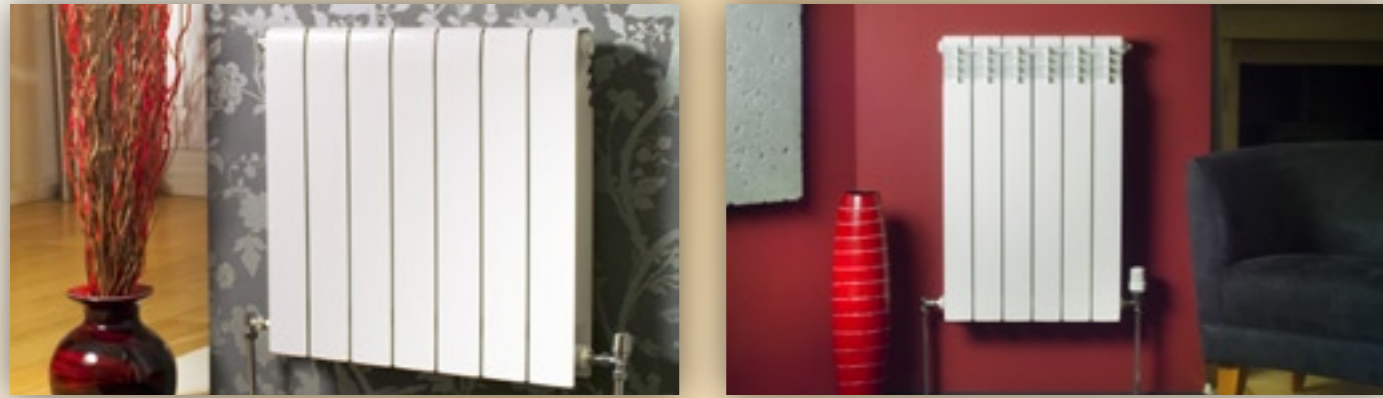


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Aluminium Radiators 
100% Recyclable - clean & green

DUBAL Aluminium Reversible Radiator

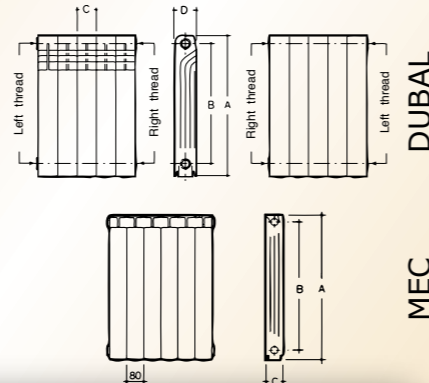


| Model | A mm | B mm | C mm | Water Content Ltrs | Approx weight KGs | Open Front BTUs $\Delta t = 50^\circ\text{C}$ | Flat Front BTUs $\Delta t = 50^\circ\text{C}$ |
|-------------|--|------|------|------------------------|-------------------|---|---|
| DUBAL 30 | 288 | 80 | 147 | 0.27 | 1.36 | 265 | 271 |
| DUBAL 45 | 421 | 80 | 82 | 0.29 | 1.13 | 352 | 339 |
| DUBAL 60 | 571 | 80 | 82 | 0.36 | 1.43 | 461 | 445 |
| DUBAL 70 | 671 | 80 | 82 | 0.43 | 1.63 | 533 | 518 |
| DUBAL 80 | 771 | 80 | 82 | 0.50 | 1.83 | 594 | 575 |
| Radiator | Pipe centres Left to Right | | | Pipe Centres from Wall | | Depth from Wall | |
| Dubal 30 | number of sections x 80mm +28mm + valves | | | 98.50mm | | 172mm | |
| Dubal 45-80 | number of sections x 80mm +28mm + valves | | | 66mm | | 107mm | |

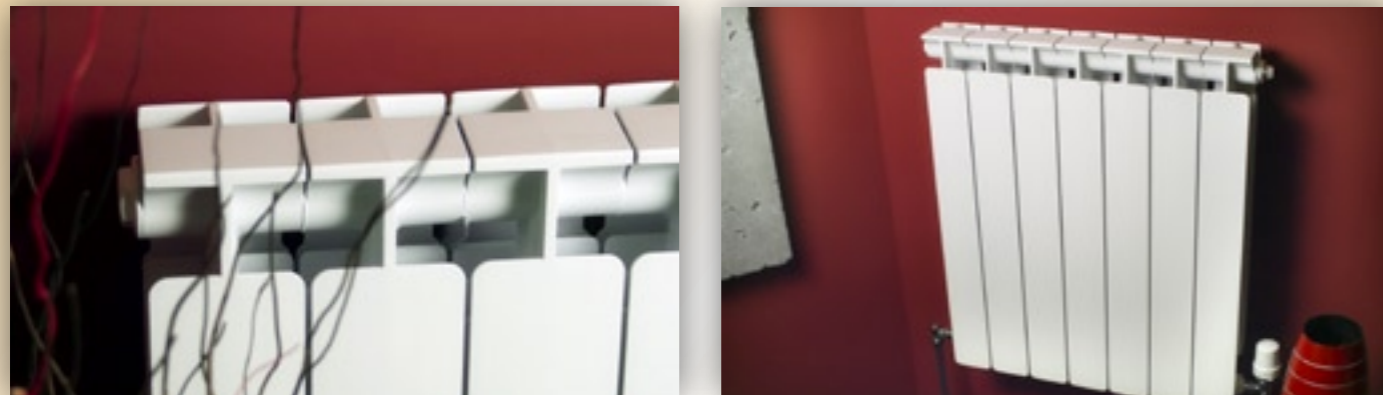
Roca sectional radiator, made from cast pressure-injected aluminium alloy. Subjected to stringent quality controls, from the chemical composition of the raw materials to the final finish. A perfect finish in white Ral 9010 achieved through an electrophoretic primer coating and a second coating of epoxy powder paint, baked at high temperature. The result is a high quality and attractive appearance unchangeable with time. The DUBAL/MEC aluminium radiator has been devised for hot water heating systems up to 6 bar and 110°C or low pressure steam up to 0.5 bar.

DUBAL REVERSIBLE MODEL

Special attention has been paid to the design, since this doubly aesthetic formula is presented for the first time. One side which brings together the classic appearance of the aluminium radiator with the front openings of high thermal output and another which reproduces the elegant line of the well-known DUBAL Radiator which Roca has successfully spread in the European heating market. The installer and the user can decide on which aspect of the one product best combines with the decor of each room. (MEC not reversible)



MEC Aluminium Radiator



| Model | A mm | B mm | C mm | Water Content Litres | Approx weight KGs | Output BTUs $\Delta t = 50^\circ\text{C}$ |
|--------|------|------|------|----------------------|-------------------|---|
| MEC 45 | 425 | 80 | 80 | 0.29 | 1.00 | 326 |
| MEC 60 | 575 | 80 | 80 | 0.40 | 1.34 | 428 |
| MEC 70 | 675 | 80 | 80 | 0.46 | 1.57 | 498 |

Heat output meets UNE 9-015-86 for $\Delta t = 50^\circ\text{C}$ (Mean Radiator - Room T. in $^\circ\text{C}$)

| Radiator | Pipe centres Left to Right | Pipe Centres from Wall | Depth from Wall |
|----------|--|------------------------|-----------------|
| Mec | number of sections x 80mm +28mm + valves | 65mm | 105mm |

Aluminium Radiator OSCAR



| Model | A - mm | B - mm | C - mm | Watts - $\Delta t = 50^\circ\text{C}$ | BTUs - $\Delta t = 50^\circ\text{C}$ |
|----------|--|--------|------------------------|---------------------------------------|--------------------------------------|
| OSCA 94 | 946 | 80 | 95 | 175 | 597 |
| OSCA 10 | 1046 | 80 | 95 | 190 | 648 |
| OSCA 12 | 1246 | 80 | 95 | 218 | 744 |
| OSCA 14 | 1446 | 80 | 95 | 245 | 836 |
| OSCA 16 | 1646 | 80 | 95 | 271 | 925 |
| OSCA 18 | 1846 | 80 | 95 | 297 | 1014 |
| OSCA 20 | 2046 | 80 | 95 | 321 | 1096 |
| Radiator | Pipe centres Left to Right | | Pipe Centres from Wall | Depth from Wall | |
| Oscar | number of sections x 80mm +28mm + valves | | 70mm - 75mm | 116mm - 121mm | |

The Oscar is great if you are tight on wall space but need good output. The Oscar model can also be supplied with matching end panels; these create a flush appearance to the radiator and accentuate the clean lines. Available in over 40 combinations; 7 height options in up to 10 sections.

INSTALLATION

The following precautions should be taken when installing aluminium radiators: **An automatic air vent** should always be fitted to every radiator. **The water in the system** should be treated so as to maintain the pH between 5 and 8. **Once installed**, do not allow the radiator to become completely isolated from the rest of the system, and do not allow the radiator valve and the lock-shield valve to remain closed simultaneously for any time.

FITTING

If you wish to increase the size of a radiator by adding more sections, please note that the corresponding internal nipples and gaskets should be used. Plugs and bushings do not require stuffing or any extra sealing as the leak-tightness is ensured by the gasket.

HYDRAULIC TEST

We recommend that the radiators are tested after their installation at 1.3 times the working pressure.

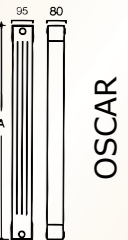
AUTOMATIC AIR VALVE



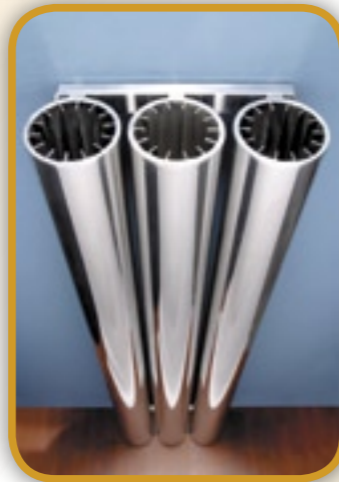
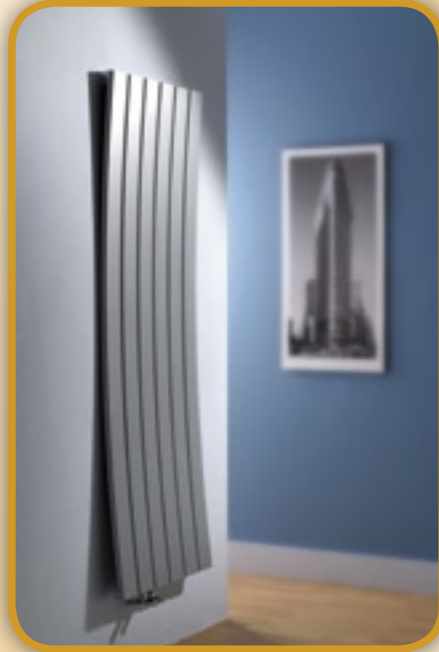
Aluminium radiators may generate hydrogen, produced by the water contained in the system. It is advisable to prevent a build-up of this gas and so an automatic air valve should be fitted to each radiator. The Roca automatic air valve has been specifically designed for this purpose, thus assuring a correct operation and safety for the heating system.

MAIN FEATURES

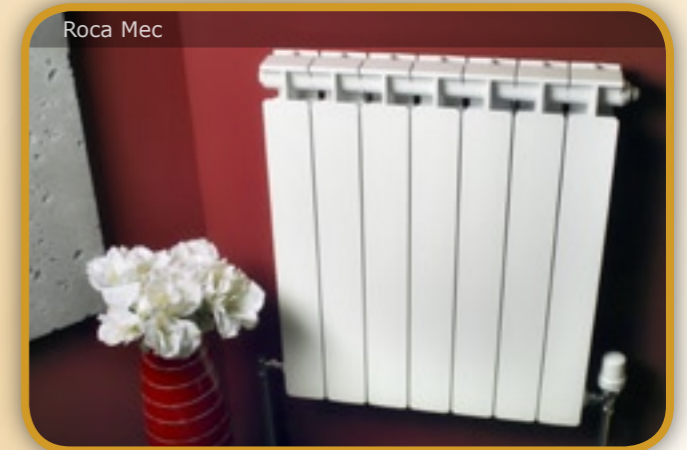
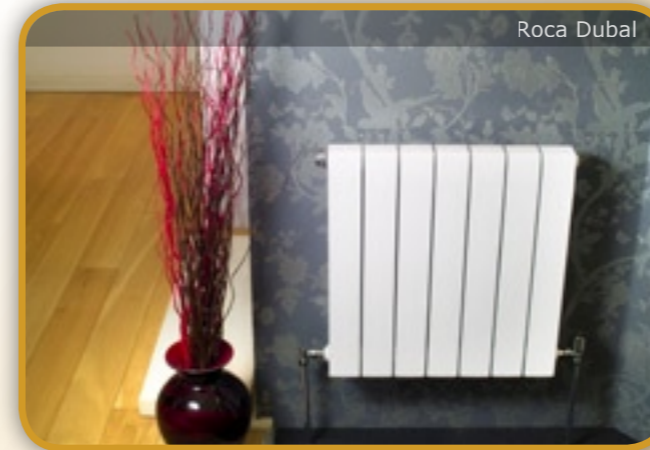
- Radiators made up of sections which are joined together by means of nipples with left and right hand thread and sealing gasket.
- Sections manufactured by pressure-injecting molten aluminium alloy.
- Radiators assembled and tested to 9 bar.
- Finished with two coats of paint. Primer coated by electrophoresis (dipped) with a subsequent coat of white epoxy powder RAL 9010 (both coats oven-dried).
- Accessories made up of: Plugs and bushings, with left and right-hand thread, gaskets, brackets and automatic venting.



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Aluminium Radiators



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