

PAINTING AND FINISHING PHASES

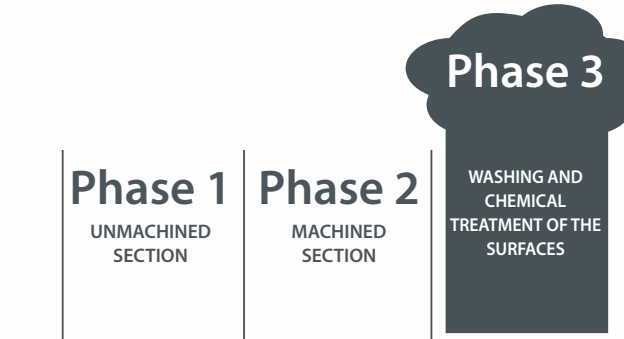
The manufacturer reserves the right to make any modifications deemed necessary without prior notification.



UFF. Pub. Fondital - CTC 03 P 442 - 01 Gennaio 2017 (01/2017)

Aleternum® B 4

Aluminium die-cast radiators with Aleternum®
Anti-corrosion Treatment



FONDITAL S.p.A.
Via Cerreto, 40 - 25079 VOBARNO (Brescia) Italia
Tel.: +39 0365 878.31 - Fax: +39 0365 878.304
E-mail: info@fondital.it - Web: www.fondital.com

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =



EN

www.fondital.com

**RANGE EVOLUTION:
NEW MODEL ALETERNUM®B4**

ALETERNUM® B4 is the top of the range Fondital, it's a result of a research project in partnership with prestigious Research Institutes.

The new fins structure and rear opening allow to obtain a higher thermal efficiency.

The product is covered by 4 patents, one of these is indeed relevant to the anti-corrosion coat **ALETERNUM®**.

ALETERNUM® B4:

- ▶ Bursting pressure: 60 bar;
- ▶ Nominal pressure: 16 bar;
- ▶ Pressure Test (undergone by 100% of manufactured products): 24 bar;
- ▶ Higher thermal efficiency
- ▶ New radiator base joined by thermoelectric technology
- ▶ Energy saving
- ▶ Exclusive design completely studied in Italy
- ▶ 20-year extended warranty
- ▶ Ideal for low temperature heating systems
- ▶ Excellent weight/power ratio
- ▶ Modular: perfect for any space;
- ▶ High technological content: 4 international patents;
- ▶ Unalterable over time, thanks to its double varnish coating: anaphoresis and powder;
- ▶ 100% made in Italy;
- ▶ Anti-corrosive treatment Aleternum® as standard.

COMPARISON WITH BIMETAL RADIATORS

Laboratory proofs testify that the radiator **ALETERNUM® B4** is the best in:

- ▶ Corrosive profile: **ALETERNUM® B4** wide resistance radius at PH level from 5 to 10, even if the water contains chlorides, there is no corrosion risk.
- ▶ Functioning profile: **ALETERNUM® B4** has higher thermal efficiency and higher bursting pressure (more than 60 bar). Ideal for mixed heating systems and in multi-storey buildings, has an excellent weight/power ratio.
- ▶ Economic profile: **ALETERNUM® B4** allowing lower use costs and as a consequence the reduction of fuel consumption.

Aleternum® B4



Model	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Heat output ΔT 50K	Heat output ΔT 30K	Exponent	Coefficient
	mm	mm	mm	mm	inches	litres/sect.	W/sect.	W/sect.	n	K _m
B4 350/100	97	407	350	80	G1	0,20	89,9	47,2	1,2598	0,6506
B4 500/100	97	558	500	80	G1	0,26	123,8	64,1	1,2890	0,7991
B4 600/100	97	658	600	80	G1	0,31	143,6	74,0	1,2981	0,8950
B4 700/100	97	758	700	80	G1	0,36	161,3	83,1	1,2998	0,9986
B4 800/100	97	858	800	80	G1	0,39	177,7	91,1	1,3085	1,0635

Maximum working pressure: 1600 kPa (16 bar)

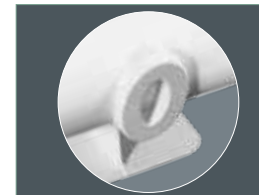
Characteristic equation of the model $\Phi = K_m \Delta T^n$. The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body no. 1695.

Choose the radiator ALETERNUM® B4, install the product of the future:

the presence of the rear openings allow a greater convective heat transfer.



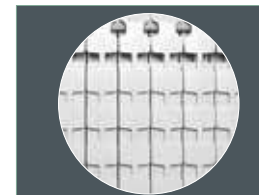
- ▶ Side fins for a higher thermal efficiency
- ▶ Solution - weldless cap



New radiator base joined by thermoelectric technology



Sectional view of weldless base with thermoelectric joining technology



Openings on the rear side



Cutted **ALETERNUM® B4** section

Aleternum® B4

The new anti-corrosion treatment Aleternum® of Fondital radiators guarantee protection against the most common causes of corrosion in common radiators.

Advantages of **ALETERNUM® B4:**

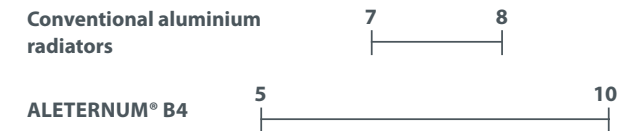
- 1) TOTAL ANTI-CORROSION TREATMENT**
- 2) IDEAL FOR A WIDE PH RANGE: FROM 5 TO 10**

Conventional aluminium radiators require pH levels between 7 and 8, a higher or lower level can bring to the corrosion. Instead, steel radiators are subjects to corrosive attacks at pH levels below 8.

The new coating eliminates this limitation, allowing aluminium radiators with the Aleternum® treatment can be installed also in heating systems with a high PH level to protect iron elements (steel pipes and radiators).

Moreover, in contrast with steel radiators Fondital radiators with the new treatment may be used in heating systems also with lower PH level.

- 3) LIGHTNESS AND HIGHER THERMAL EFFICIENCY AS RADIATORS WITHOUT TREATMENT**



- 4) MAXIMUM BURST PRESSURE - OVER 60 BAR. PERFECT FOR INSTALLATION IN MULTI-LEVEL BUILDINGS**

- 5) PROTECTED BY 4 INTERNATIONAL PATENTS**



Fondital guarantees **Aleternum® B4** for **20 years** from the date of installation against all production defects providing the heating system is conform to the regulations, in compliance with the standards in force and provided the instructions on installation, use and correct maintenance supplied with the product have been observed.