

Vestone 13.01.2022

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Object: Declaration lifetime of Valsir Pexal and Mixal

The performances requirements for multilayer piping systems conforming to ISO 21003 are specified for four different application classes as showed in table 1.

Table 1 — Classification of service conditions

Application class	Design temperature T_D °C	Time ^b at T_D years	T_{max} °C	Time at T_{max} years	T_{mal} °C	Time at T_{mal} h	Typical field of application
1 ^a	60	49	80	1	95	100	Hot water supply (60 °C)
2 ^a	70	49	80	1	95	100	Hot water supply (70 °C)
4 ^b	20 plus cumulative	2,5	70	2,5	100	100	Underfloor heating and low-temperature radiators
	40 plus cumulative	20					
	60 plus cumulative	25					
5 ^b	20 plus cumulative	14	90	1	100	100	High-temperature radiators
	60 plus cumulative	25					
	80 plus cumulative	10					

^a A country may select either class 1 or class 2 in conformity with its national regulations.

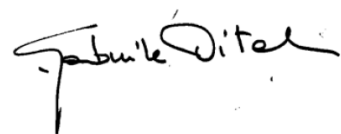
^b Where more than one design temperature for time and associated temperature appears for any class, they should be aggregated. "Plus cumulative" in the table implies a temperature profile of the mentioned temperature over time (e.g. the design temperature profile for 50 years for class 5 is 20 °C for 14 years followed by 60 °C for 25 years, 80 °C for 10 years, 90 °C for 1 year and 100 °C for 100 h).

NOTE For values of T_D , T_{max} and T_{mal} in excess of those in the table, this International Standard does not apply.

We declare that multilayer pipes Valsir Pexal and Mixal are classified for the applications described in classes 1,2,4,5 in accordance to table 1 of the standard ISO 21003_1. The test carried out on Pexal and Mixal systems assure an expected life time of 50 years in accordance to part 5 ISO 21003_1 for every application class at working pressure of 10 bars.

For these reasons is possible to assurance that Pexal and Mixal systems can resist at 95°C - 10 bars at the conditions described in table 1.

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R.E.A. c.c.i.a.a. Bs 301171 - Mecc. Bs 001856

Soggetta all'attività di direzione e coordinamento da parte di FONDITAL GROUP S.p.A. - C.F. 02075160172