



Weathering performance

After 30 years of experience with our PVC window-formulation we meet the highest quality standards of the external weathering within different climate zones also with global radiation up to 160 kcal/cm² per annum and 180 kcal/cm² per annum respectively.

In order to ensure these quality standards we require in addition to our internal in-process audits, external audits of independent institutions. This is confirmed, among others, through German RAL, CSTB France, AENOR Spain, AAMA US-Standard Arizona as well as numerous additional certification institutes.

The changes in color of aluplast profiles is greater than grade 3 on grey scale according to ISO 105-A02 (RAL GZ-716/1)

The procedure of artificial weathering was carried out according to DIN EN 513 (RAL GZ-716/1), procedure 2, simulation of a severe climate zone (S).

Type of weathering device:	XENOTEST@BETA LM
Light source:	Xenon arc source
Filter system:	Terrestrial daylight simulation
Black standard temperature:	65 ± 3°C
White standard temperature:	45 -50°C
Relative humidity:	65±5 %
Spray cycle:	6 min water spray, 114 min dry cycle
Irradiation energy Euv (300 -400) nm:	60±2W/m ²
Irradiation dose (300 -800) nm:	12 GJ/m ²
Exposure period:	6120 h

Based upon this experience we guarantee for our PVC window profiles for 10 years external weathering according to ISO 105-A 02.

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