

## Certificate

Fundermax GmbH, at Klagenfurter Strasse 87–89, A–9300 St. Veit/Glan, Austria, produces double-faced high-pressure decorative laminates **MAX<sup>®</sup> EXTERIOR**, formerly named "**MAX<sup>®</sup> BAUCOMPACT** sheets" (compact laminates). This product is intended for outside applications as e.g. cladding and balcony railings in buildings. As requested, we confirm that we were charged by Fundermax with a long-term observation and performing of accompanying tests which show the suitability of this product for such applications.

These observations and tests concerned **MAX<sup>®</sup>-BAUCOMPACT** sheets installed 1978 as balcony face-plate in an apartment house in A–3430 Langenzersdorf, Rebschulg. 5 (near Vienna, Austria). The sheets used were of type IS 150 SBV, colour/surface-code 65 HS, have been installed in this building; they have a nominal thickness of 8 mm. Following tests were performed on samples drawn from the building in intervallic time of 12 years (in 1999 and 2011) by our Institute:

- flexural tests \*);
- tensile tests \*);
- resistance to immersion in boiling water \*);
- resistance to moisture \*);
- resistance to change in colour and gloss \*);
- microscopic examination of edges (with regard to crack depth resulting from weathering);
- microscopic surface examination (with regard to weathering of the resin matrix and release of cellulose fibres);
- ability to be easily cleaned.

Data from newly produced sheets of the same type from the tests in 1999 were always used as a reference material. The results of these examinations were reported in Test reports and/or Expert Opinions No. **20786** (1986), No. **29683** (1993), No. **39886** (1998) and No **403500** (2011).

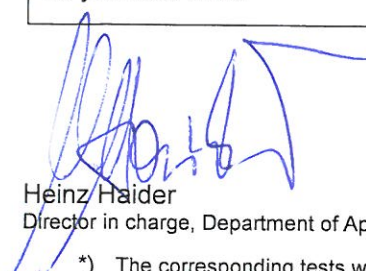
Based on the results of these tests we **CONFIRM** that the double-faced compact laminate, **MAX<sup>®</sup>-BAUCOMPACT**, now called **MAX<sup>®</sup>-EXTERIOR**, tested,

- while showing definite signs of **ageing** in its outward appearance (slight changes in colour and gloss, weathering of the surface),
- does **not** show any significant **loss in mechanical strength** (safety).
- The dirty surface of the exposed laminate can **easily be cleaned** with a solution of a common household cleaner (surfactant).

**The examined material complies with the requirements laid down in the relevant product standard (EN 438, Part 6) and meets the requirements for newly produced laminates even after 33 years of outdoor exposure.**

On account of the carried out tests the stay of the panel on the building facade are also classified after 33 years as safe.

Vienna, 3 April 2012

  
 Heinz Haider  
 Director in charge, Department of Applied Plastics Technology

  
 Udo Pappler  
 Head of Certification body

\*) The corresponding tests were carried out in accordance with the relevant product standard valid at the time of testing (latest standard: EN 438) or according to standardised general material test methods (e.g., DIN 54 001 and DIN 67 530). The test methods applied are accredited test procedures of **ofi** Technologie & Innovation GmbH.