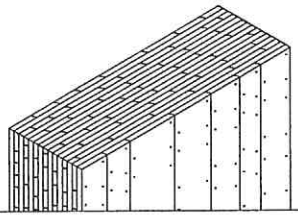

DECLARATION OF PERFORMANCE - DoP

Nr. MHM Profiled aluminium nail 13/0801 18-04-26

1. Unique identification code for the product type:
Profiled aluminium nail

2. Type, batch or series number or other identifier of the building product
A "B" is pressed into the nail head of the MHM profiled aluminium nails for identification.

3. Manufacturer's intended use or intended use of the building product
The MHM profiled aluminium nail is used to join softwoods. Its intended use includes joints for which requirements for mechanical strength and stability as well as safety in use, as defined in the essential requirements 1 and 4 of Council Directive 89/106/EEC, must be met.

4. Name, registered trade name or registered trademark and manufacturer's contact address.
MHM Entwicklungs GmbH - Auf der Geigerhalde 41 - 87459 Pfronten-Weißbach, Germany

5. System or systems for the assessment and verification of the constancy of performance of the building product in accordance with Appendix V:
System 3

6. In case of a Declaration of Performance concerning a building product for which a European Technical Assessment has been issued:
The Österreichisches Institut für Bautechnik (Austrian Institute for Construction Technology, ÖIB), Schenkenstraße 4, 1010 Vienna, Austria, has issued the following: European Technical Approval ETA – 13/0801 based on an EAD 130287-00-0603 "Profiled aluminium nail for use in timber structures" The manufacturer performs plant's own production controls according to System 3.

7. Declared performance

Essential features	Performance	
Dimensions	ETA-13/0801 Appendix 1	Nominal diameter 2.5 mm, nominal length 50 mm
Characteristic yield moment	ETA-13/0801 Appendix 2	$M_{y,k}$ 800 N
Characteristic withdrawal resistance parameter	ETA-13/0801 Appendix 2	$F_{ax,k,90°}$ $50 * 10^{-6} * l_{ef} * d * p_k^2$ [1]
Characteristic head pull-through resistance parameter	ETA-13/0801 Appendix 2	$F_{head,k}$ $100 * 10^{-6} * d^2_h * p_k^2$ [1]
Characteristic tensile load capacity	ETA-13/0801 Appendix 2	$F_{tens,k}$ 1400 N/mm
Transverse elasticity modulus	ETA-13/0801 Appendix 2	K_{ser} 300 N/mm
Charcteristic load bearing capacity perpendicular to the nail axis	ETA-13/0801 Appendix 2	$F_{le,k}$ 400 N/mm
Durability against corrosion	ETA-13/0801 3.1.1	Service class 1 and 2 / C1,C2,C3 EN ISO 12944-2
Fire behaviour	ETA-13/0801 3.1.2	European classification A1

[1] l_{ef}... *Length in the wooden part* $l_{ef} \geq 8\,d$
p_k... *Characteristic density of the wood* in kg/m³

8. The performance of the product in accordance with numbers 1 and 2 corresponds to the declared performance according to number 7. The manufacturer is solely responsible for the production of this Declaration of Performance in accordance with number 4.

Signed for the manufacturer and in the name of the manufacturer by:
Name and function
Rainer König Managing Director

Hawangen, 22-04-07
Place and date of issue

MHM Entwicklungs GmbH
Auf der Geigerhalde 41
D-87459 Pfronten-Weissbach
Signature

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Sitz der Gesellschaft: Pfronten-Weißbach
Amtsgericht Kempten HRB 7945
Geschäftsführer:
Hans Hundegger, Rainer König
USt-IdNr.: DE 813 678 699