

PRODUCT CERTIFICATE

Certificate No C278/04

Translation

Kestopalkki Lpj Oy

manufactures

GLULAM

VTT Building and Transport has assessed the glued laminated timber manufactured by Kestopalkki Lpj Oy at the Korttesjärvi mill located in Finland. The assessment is based on an inspection of the product, production process and factory production control.

As a result of this assessment VTT confirms, that the glued laminated timber conforms to the compliance criteria on strength classes **L40** and **L30** given in part 10 of the National Building Code of Finland when the adhesive of type **I** (equal to type **U** in Finland) defined in the standard EN 301 is used. This Certificate is restricted to glued laminated timber of which:

The glulam is horizontally laminated.

The lamellas are of spruce (*Picea abies*) or pine (*Pinus sylvestris*) material.

The lamellas are visually graded to the classes LT30 and LT20.

The number of outer lamellas is at least 2 on both sides and the total area of outer lamellas is at least 1/3 of the symmetrical cross-section area.

The minimum strength class of the outer/inner lamellas is LT30/LT20 for L40.

The minimum strength class of the outer/inner lamellas is LT20/LT20 for L30.

The products covered by this Certificate shall be marked as follows:

VTT C278/04

lujuusluokka L40 (or L30)

liimatyyppi I (or U)

This certificate is valid until 16 June 2009 on condition that the production methods are not changed to a substantial extent and the manufacturer and VTT have a valid quality control contract. Inquiries concerning the validity of the certificate may be addressed to VTT. Other conditions are listed on the reverse side of the certificate.

Espoo 16 June 2004



Liisa Rautiainen
Assessment Manager



Mikael Fonselius
Senior Research Scientist

VTT TECHNICAL RESEARCH CENTRE OF FINLAND

VTT BUILDING AND TRANSPORT
P.O. Box 1800 (Lämpömiehenkuja 2, Espoo),
FIN-02044 VTT, Finland
Tel. +358 9 4561, Fax +358 9 456 6251

PRODUCT CERTIFICATE

No C278/04

Where reference is made in this certificate to any regulations, publications, standards or other documents, it shall be construed as a reference to such publication in the form of which it is in force at the date of this certificate.

The manufacturer is responsible for the quality and continuous quality control of the product. In granting this certificate, VTT does not accept responsibility to any person or body for any loss or damage incurred in respect of personal injury arising as direct or indirect result of the use of this product.

The use of VTT's name in advertising or the distribution of a partly copied certificate is allowed only with permission from VTT in writing.

