

Treteknisk



NA Accredited laboratory



Laboratory report

Client:

Kiilto OY

Description of work:

Test of the EPI adhesive system
Kestokol WR11 with hardener WR
according to the European standards EN
302-1, EN 302-4 and prEN 15416-2:2005
(Mixing ratio 100:15)

Report no.:

325066-LM02

Report issued:




2007-01-05

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Laboratory report - accredited testing

No.: 325066-LM02

Test items received: 2006-09-28	Date of testing: 2006-11-01, 2006-11-14 and 2006-12-14	Date of issue: 2007-01-05
Testing done by:  Kjell Lindrupsen	Reported by:  Kjell Lindrupsen	Responsible:  Per Lind

Customer: Kiilto OY
Project title: Kiilto WR11 EN 302-2
Project no.: 325066
Test method: EN 302-1 thick and thin glue line, EN 302-4 and prEN 15416-2:2005.

Deviations from method: See deviation on page 3.

Appendix no.:
325066-LM02-1 3 pages EN 302-1/thin glue line
320566-LM02-2 3 pages EN 302-1/thick glue line
320566-LM02-3 1 page EN 302-4
320566-LM02-4 2 pages prEN 15416-2:2005

Summary

The EPI adhesive Kestokol WR11 with hardener WR was tested according to EN 302-1 thin and thick glue line, EN 302-4 and prEN 15416-2:2005. The adhesive meets the requirements in EN 301 regarding EN 302-1 thin glue line, EN 302-4 and the requirements in prEN15416-2:2005. The adhesive does not meet the requirements the Nordic Glulam Committee has set for EN 302-1 test of EPI glue with a glue line thickness of 0,3 mm.

Extent of testing

The EPI adhesive Kestokol WR11 with hardener WR was tested according to:
EN 302-1: Determination of bond strength in longitudinal tensile shear.
EN 302-4: Determination of the effects of wood shrinkage on the shear strength.
prEN 15416-2:2005: Static load test of multiple bondline specimens in compression shear.

15 parts of the hardener were mixed with 100 parts of the adhesive.

Sampling

The adhesive was sent to NTI by Kiilto OY.

Identification of samples

The adhesive container was labelled "2602473 Kestokol WR11".
The hardener container was labelled "Kestokol WR-Kovete".

Pre-treatment of samples

The containers were shaken before the adhesive and hardener were mixed.

Deviation

Regarding EN 302-1: Thick glue line. Glue line thickness is reduced from 1,0 mm to 0,3 mm, according to requirements given by the Nordic Glulam Committee.
Regarding EN 302-4: Glue line thickness is reduced from 0,5 mm to 0,1 mm, according to requirements given by the Nordic Glulam Committee.

Results

The adhesive Kestokol WR11 with hardener WR meets the requirements in EN 301 regarding EN 302-1 thin glue line, EN 302-4 and the requirements in prEN 15416-2:2005. The adhesive does not meet the requirements the Nordic Glulam Committee has set for EN 302-1 with a glue line thickness of 0,3 mm. The requirements are set by interpolation between the requirements for 0,1 mm and 1,0 mm in EN 301.

For further results see enclosures.

Uncertainty

The equipment used has an accuracy equal to or better than the requirements given in the standard that the internal method of the laboratory is based on.

Information about uncertainty calculation can be given by the laboratory.

Validity

The validity of the results in this report includes only the samples that are tested according to the description under "identification of samples".