



Test Report

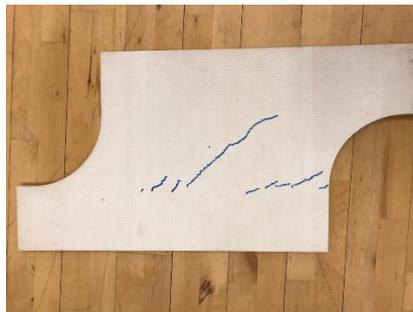
Report No.: 849724-2

- Assignor:** Nordic Build A/S
Bjernermarksvej 54
DK-5700 Svendborg
- Subject:** 15 mm MAGPLY
8 pcs cut parallel to the length of the panel and 8 pcs. cut perpendicular to the length of the panel.
Dimension 450 x 900 mm
Magnesium Oxide Board with glass fibre mesh webbing.
One side smooth.
White
- Sampling:** The test material was sampled by the assignor. The samples were received at DTI 07-12-2018
- Method:** NT BUILD 315 *Particle Boards; Shear strength perpendicular to the plane of the board.*
The test specimens were cut by DTI – see appendix 1.
Test specimens were conditioned at 20 °C/65 % RH prior to cutting and testing.
- Equipment** Instron 5982 Universal Test Machine, 100 kN load cell
Instrument identification no 80578
- Period:** February 2019
- Result:** The test results are given in:
Appendix 2: NT BUILD 315 Panel shear
- Storage:** The test material will be destroyed after 1 month, unless otherwise agreed.
- Terms:** Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2005) and in compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work accepted by Danish Technological Institute. The test results apply to the tested products only. This report may be quoted in extract only if the laboratory has granted its written consent.
- Date/place:** 11-02-2019, Danish Technological Institute, Wood and Biomaterials, Taastrup
- Signature:** Test responsible Co-signatory

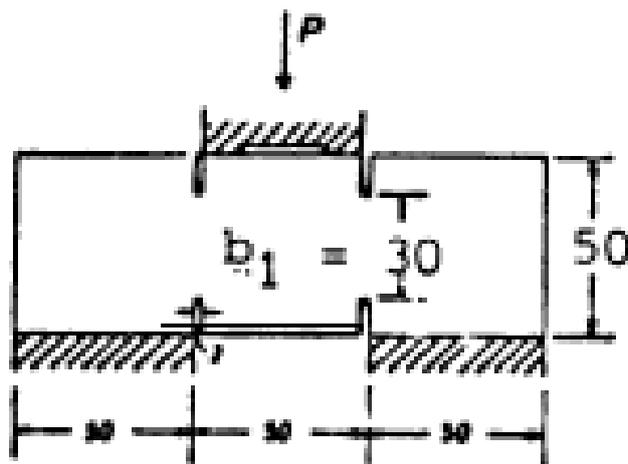


**NT Build 315 Panel Shear
Test set-up**

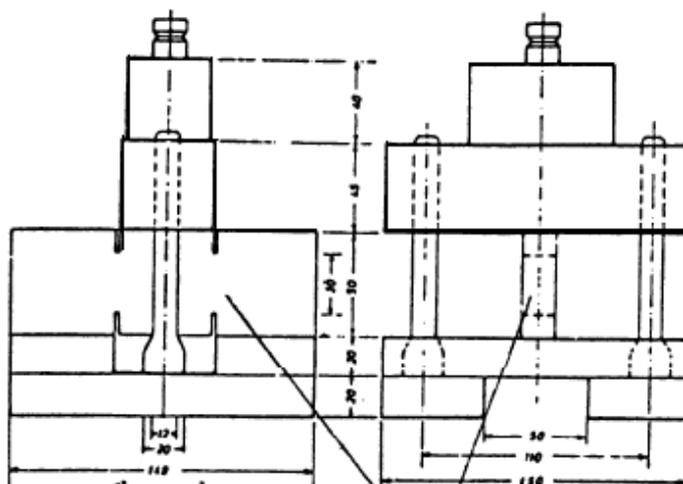
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Initials: Jlj/pfy/hbs



Test specimens were cut from the ends of tested EN 789 Panels Shear test specimens. The numbering of test specimens is the same as in test report 849724.



Test specimens

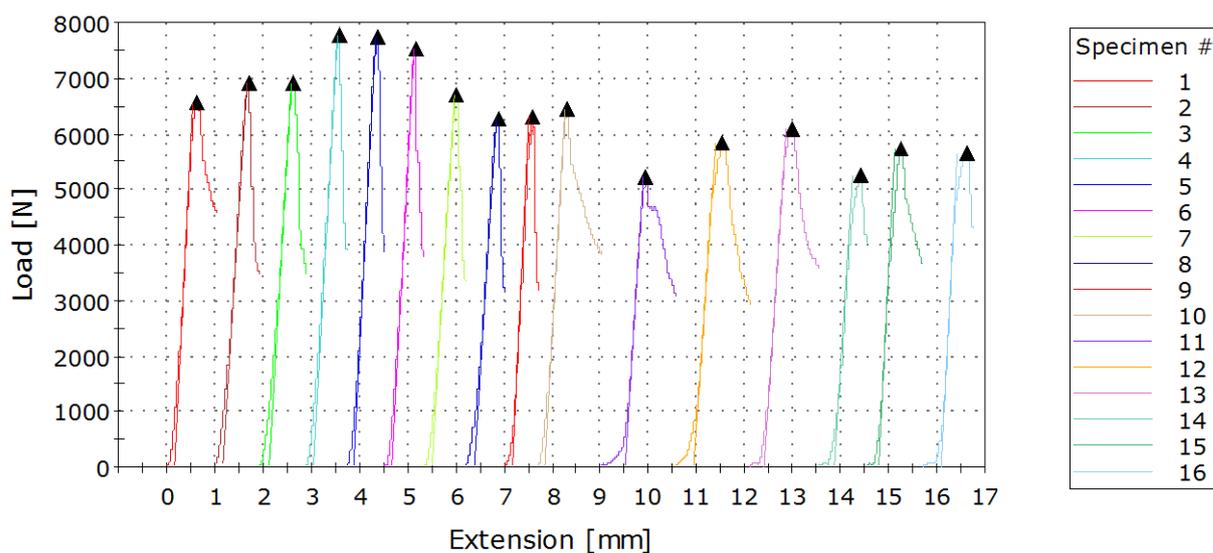


Test apparatus

Test results

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Specimen 1 to 16



	Specimen label	Shear length side 1 [mm]	Shear length side 2 [mm]	Thickness [mm]	Maximum Load [N]	Shear strength [MPa]	Maximum Slope (Automatic Young's) [N/mm]	Time at Maximum Load [s]
1	para1	30,0	30,0	15,1	6543	7,22	16192	19
2	para2	30,0	30,0	14,6	6918	7,90	14006	20
3	para3	30,0	30,0	14,5	6935	7,97	14541	21
4	para4	30,0	30,0	15,2	7770	8,52	15973	20
5	para5	30,0	30,0	14,9	7731	8,65	16894	19
6	para6	30,0	30,0	14,9	7547	8,44	16906	38
7	para7	30,0	30,0	14,5	6703	7,70	14441	41
8	para8	30,0	30,0	14,9	6255	7,00	13815	41
9	perp1	30,0	30,0	15,0	6306	7,01	18106	36
10	perp2	30,0	30,0	15,0	6437	7,15	15283	37
11	perp3	30,0	30,0	14,7	5216	5,91	13409	56
12	perp4	30,0	30,0	15,5	5838	6,28	13619	58
13	perp5	30,0	30,0	14,8	6086	6,85	13470	51
14	perp6	30,0	30,0	14,5	5256	6,04	13862	52
15	perp7	30,0	30,0	15,0	5729	6,37	16129	43
16	perp8	30,0	30,0	14,9	5652	6,32	16889	55
Mean		30,0	30,0	14,9	6433	7,21	15221	38
Standard deviation		0,0	0,0	0,3	808	0,90	1514	14
Coefficient of variation		0,0	0,0	1,8	13	13	10	38

Test results

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Typical failure modes - "para" test specimens