

Certificate of shape stability

Ref. transp. packaging unit: Wienerberger 1080x850 HV2 215x102x65 652pcs
 Ref. measuring report: Wienerberger nv - 20181009007
 Company: Wienerberger nv
 Performed test: Acceleration test according to: Be RD of April 27th 2007, EUMOS 40509, Date: 9/10/2018 EN12195-1:2010
 Description of the tested transport packaging unit

Description: A wooden 1080x850 pallet containing 11 layers. In total there are 652 bricks LAN 215x102x65 on the pallet. Primary packaging: Secundary packaging: Stretch film: ☐Stretch hood: ☐ Shrink hood: ✔ Straps: ✔ Tertiary packaging: Add transport packaging: Anti slip up the pallet: Anti slip up on layer(s): Stacking pattern: Pallet type: 1080x850 # Layers: Weight[kg]: 1520 Height [mm]: 1190 Length - LP [mm]: 1080 Width - BP [mm]: Name and signature responsible of the packaging:

8. Test conditions: Relative humidity: 50% - Temperature: 20°C - Sliding of the pallet is prevented mechanically.

Picture in the BP-direction after the test.







10. Conclusions:

The tested load unit is shape stable in the BP-direction at 0.5g under the specified test conditions. The tested load unit is shape stable in the LP-direction at 0.5g under the specified test conditions.

Wafelstmer 16 8540 Dienik België

11. Name and signature responsable of the test: Ing. J. Dendauw



TEST REPORT of the ACCELERATION TEST based on RD of April 27th 2007, EN12195:2010, EUMOS 40509

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Ref. measuring report: Wienerberger nv - 20181009007

Specifications of the test

Client

<u>Company:</u> Wienerberger nv <u>Address:</u> Kapel Ter Bede 121

8500 Kortrijk

België

<u>Contact pers.:</u> Danny Wallaert Tel. nr.: +32 (0) 56 24 96 27

<u>Fax nr.:</u> - Mob. nr.: -

<u>E-mail:</u> Danny.Wallaert@wienerberger.com

Test details:

Test facility: ESTL nv, wafelstraat 45, 8540 Deerlijk, België

<u>Test responsible:</u> Ing. Jelle Dendauw

Test equipment: MJ1500 acceleration bench

<u>Test date:</u> 9/10/2018

People attending: Jelle Dendauw (ESTL), Danny Wallaert (Wienerberger)

Temperature [°C]: 20
Rel. humidity [%]: 50

<u>Load conditions:</u> Sliding of the load unit is prevented mechanically.

Attached documents to the report: /

Goal of the acceleration test

According to the Belgian RD* of April 27th 2007, EUMOS 40509 and the EN12195:2010, a load securing layout has to be capable of withstanding certain forces of inertia. These forces amount to 0,8g in forward direction, 0,5g in rearward direction and 0,5g in the sideward directions. The acceleration test allows for an unambiguous assessment of a certain load unit, secured in a specified manner, with the rules and regulations of the Belgian RD.

A load unit is placed on a platform and is secured in the correct orientation and according to a specified securing layout. The platform is then accelerated at 0,8g or 0,5g to imitate the influence of the forces of inertia originating from the forward deceleration as prescribed in abovementioned RD. The stability of the load unit is then assessed. If the load unit is deemed stable, it is rotated 90 degrees, together with the securing layout. Next, the platform is accelerated at 0,5g to imitate the influence of the forces of inertia originating from the sideward acceleration prescribed in abovementioned RD. After this test the stability of the load unit is assessed once again.











Reference 20181009/007

Author Dendauw Jelle

Contact: Danny Wallaert

Date: 9/10/2018

Company: Wienerberger nv Pallet name: Wienerberger 1080x850 HV2 215x102x65 652pcs

Conclusions













Reference 20181009/007 **Company:** Wienerberger nv

Author Dendauw Jelle

Contact: Danny Wallaert

Date: 9/10/2018

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General remarks and conclusions

Conclusions:

- The pallet is behaving shape stable at 0,5g in both directions following EUMOS40509.

Hood specifications

Hood reference: Forum Plast Thickness [µm]: 130 Hood_Type: Shrink hood Initial dimensions [mm]x[mm]: 1260_X 1120 Hor. stretch long side [%]: Vertical stretch [%]: Hor. stetch short side [%]: Configuration of the hood: **V**











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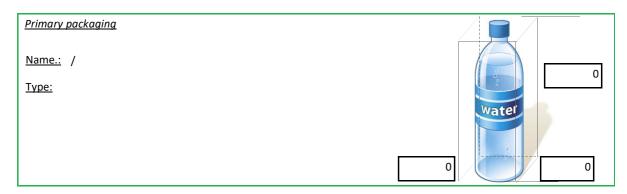
Contact: Danny Wallaert

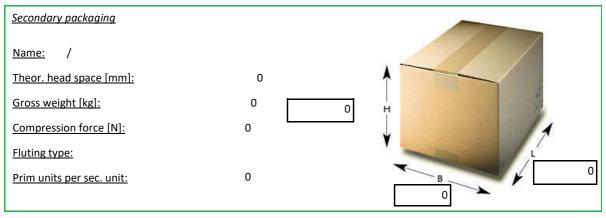
Date: 9/10/2018

Pallet name: Wienerberger 1080x850 HV2 215x102x65 652pcs

Pallet specifications

Name of the pallet: Wienerberger 1080x850 HV2 215x102x65 652pcs A wooden 1080x850 pallet containing 11 layers. In total there are 652 bricks LAN 215x102x65 on the pallet. Pallet type: 1080x850 Stacking pattern: Interlocked # Layers: 11 Cases per layer: Tie sheet between load and pallet: Tie sheet on top of layer(s): LP [mm]: 1080 <u>BP[mm]:</u> 850 Weight [kg]: 1520 Height [mm]: 1190





<u>Additional packaging</u>		
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