

Certificate of shape stability

Ref. transp. packaging unit: Wienerberger 1140x1140 POT Tile44 660pcs
 Ref. measuring report: Wienerberger nv - 20190624001
 Company: Wienerberger nv - 4. Performed test: Acceleration test according to: Be RD of April 27th 2007, EUMOS 40509, EN12195-1:2010

. Description of the tes	sted transport packaging	g unit	
Description:			
A wooden 1140x1140 pal between the layers and r	- ·	. Every layer contains 5 rows	of 44 tiles. There is one horizontal strap per row. In
Primary packaging: /	,	Secundary packaging	<u>z:</u> /
Tertiary packaging:	Stretch film: Stretch hood:	: Shrink hood: Straps	
Add transport packaging:	Paper 9mm straps	3<	
Anti slip up the pallet: Anti slip up on layer(s):	D.O.		W 371045
Stacking pattern:	Interlocked		
Pallet type:	1140x1140	# Layers: 3	
Height [mm]:	1065	Weight[kg]: 1300	
Length - LP [mm]:	1140		
Width - BP [mm]:	1140		
. Name and signature	responsible of the packa	ging:	

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.



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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Specifications of the test

Client

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

8500 Kortrijk

België

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Mob. nr.: +32 (0) 477 75 57 39

E-mail: Kristof.Decroos@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> 24/06/2019

People attending: Jelle Dendauw (ESTL), Kristof Decroos (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.











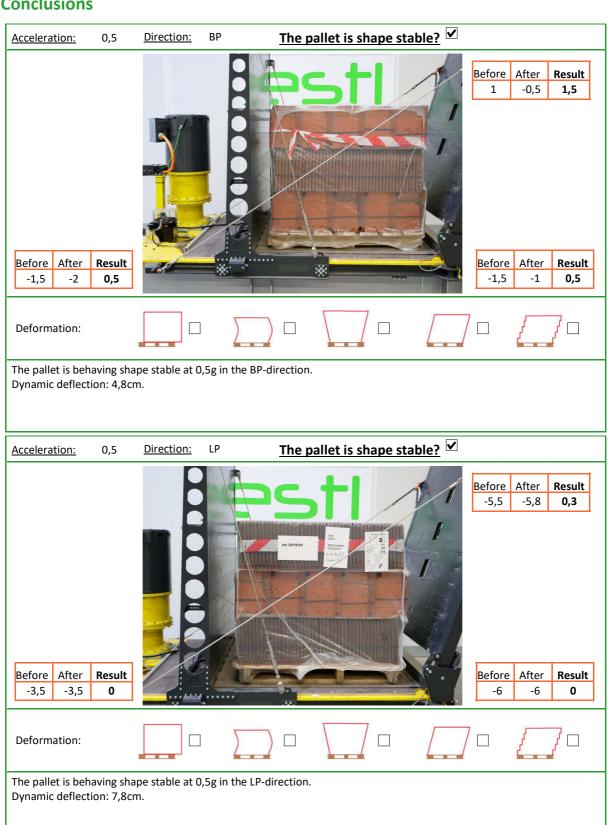
20190624/001 Reference

Company: Wienerberger nv

Author Dendauw Jelle **Contact:** Kristof Decroos Date: 24/06/2019

Pallet name: Wienerberger 1140x1140 POT Tile44 660pcs

Conclusions













Date: 24/06/2019

Reference 20190624/001 **Company:** Wienerberger nv

0190624/001 Author Dendauw Jelle

Author Dendauw Jelle Contact: Kristof Decroos

Pallet name: Wienerberger 1140x1140 POT Tile44 660pcs

General remarks and conclusions

Conclusions:

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

Hood specifications

Hood reference: Shrink hood Wienerberger Thickness [µm]: 150 Hood_Type: Shrink hood Initial dimensions [mm]x[mm]: 1700_X 1700 Vertical stretch [%]: Hor. stretch long side [%]: Hor. stetch short side [%]: Configuration of the hood: **V**











Reference 20190624/001

Author Dendauw Jelle

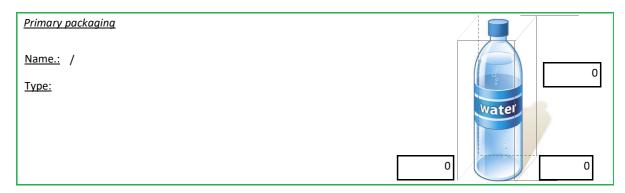
Contact: Kristof Decroos

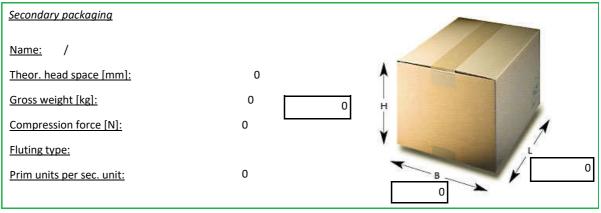
Date: 24/06/2019

Company: Wienerberger nv Pallet name: Wienerberger 1140x1140 POT Tile44 660pcs

Pallet specifications

Name of the pallet: Wienerberger 1140x1140 POT Tile44 660pcs A wooden 1140x1140 pallet containing 3 layers of tiles. Every layer contains 5 rows of 44 tiles. There is one horizontal strap per row. In between the layers and rows there is paper. <u>Pallet type:</u> 1140x1140 Stacking pattern: Interlocked # Layers: 3 Cases per layer: Tie sheet between load and pallet: Tie sheet on top of layer(s): LP [mm]: 1140 BP[mm]: 1140 Weight [kg]: 1300 Height [mm]: 1065





Additional packaging
Paper 9mm straps