



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

Ref. transp. packaging unit: Wienerberger 1140x1140 POT Tile451 320pcs

Ref. measuring report: Wienerberger nv - 20190228010

Specifications of the test

Client

Company: Wienerberger nv
Address: Kapel Ter Bede 121
8500 Kortrijk
België
Contact pers.: Kristof Decroos
Tel. nr.: +32 (0) 56 43 93 29
Fax nr.:
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
Test responsible: Ing. Jelle Dendauw
Test equipment: MJ1500 acceleration bench
Test date: 28/02/2019
People attending: Jelle Dendauw (ESTL), Kristof Decroos (Wienerberger)

Temperature [°C]: 20
Rel. humidity [%]: 50
Load conditions: 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 20190228/010
Company: Wienerberger nv

Author Dendauw Jelle Contact Kristof Decroos
Pallet name Wienerberger 1140x1140 POT Tile451 320pcs

Date: 28/02/2019

Conclusions

Acceleration: 0,5 Direction: BP **The pallet is shape stable?**

Before	After	Result
-3	-3	0



Before	After	Result
-4	-3,5	0,5

Before	After	Result
-4	-4	0

Deformation:

The pallet is behaving shape stable at 0,5g in the BP-direction.

Acceleration: 0,5 Direction: LP **The pallet is shape stable?**

Before	After	Result
-1	-1,5	0,5



Before	After	Result
-7	-5,5	1,5

Before	After	Result
-6	-5	1

Deformation:

The pallet is behaving shape stable at 0,5g in the LP-direction.

Reference 20190228/010
 Company: Wienerberger nv

Author Dendauw Jelle Contact Kristof Decroos
 Pallet name Wienerberger 1140x1140 POT Tile451 320pcs

Date: 28/02/2019

General remarks and conclusions

Conclusions:
 - The pallet is behaving shape stable at 0,5g in the LP- and BP-direction following EUMOS 40509.

Stretch foil specifications

Containment force short side [kg]:

Top:
Mid:
Bottom:

Containment force long side [kg]:

Top:
Mid:
Bottom:

Stretch film: Machinefolie 50/17 C/PSN/T Thickness [µm]: 17 Producer: Darco

Pre-stretch[%]: 2nd Stretch[%]: Stretch wrapper:

Weight (g): 491 Practical stretch [%]: Pallet roping: # Wrappings: 38

Overlap when going up [%]: 50 Overlap when going down [%]: 50

Position of the roping [mm]: Foil overlap at the top [mm]:


The measurement protocol is available upon request.

Reference 20190228/010
 Company: Wienerberger nv

Author Dendauw Jelle Contact Kristof Decroos
 Pallet name Wienerberger 1140x1140 POT Tile451 320pcs

Date: 28/02/2019

Pallet specifications

<u>Name of the pallet:</u> Wienerberger 1140x1140 POT Tile451 320pcs	
A wooden 1140x1140 pallet containing 2 layers of tiles. Every layer contains 160 tiles. The tiles are grouped by 15 using elastic bands. In between the layers there is a PE interlayer.	
	
<u>Pallet type:</u> 1140x1140	
<u>Stacking pattern:</u> Interlocked	
<u># Layers:</u> 4 <u>Cases per layer:</u> 120	
<u>Tie sheet between load and pallet:</u> <input type="checkbox"/>	
<u>Tie sheet on top of layer(s):</u>	
<u>LP [mm]:</u> 1140 <u>BP[mm]:</u> 1140 <u>Weight [kg]:</u> 820 <u>Height [mm]:</u> 850	

Primary packaging

Name: /

Type:



Secondary packaging

Name: /

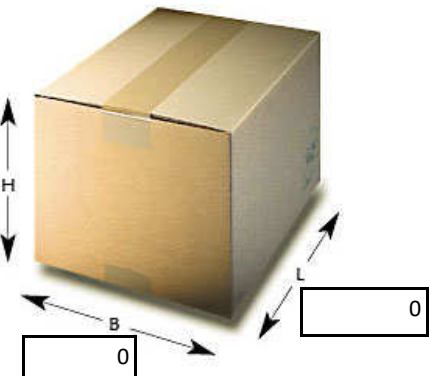
Theor. head space [mm]: 0

Gross weight [kg]: 0

Compression force [N]: 0

Fluting type:

Prim units per sec. unit: 0



Additional packaging

PE interlayer, rubberband