

1. Ref. transp. packaging unit:	Wienerberger 1140x1140 TDH TileVAR 576pcs
2. Ref. measuring report:	Wienerberger nv - 20210308105
3. Company:	Wienerberger nv
4. Performed test:	Acceleration test following EUMOS40509:2020
5. Test date:	8/03/2021
6. Test institute and responsible:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium - Dendauw Jelle

7. Description of the tested load unit:

A wooden 1140x1140 pallet containing 3 layers of tiles. Every layer contains 192 tiles which are stacked on the pallet. The tiles are grouped by 8 with a vertical strap. In between the layers there is a PS interlayer.

Primary packaging: / Secondary packaging: /

Tertiary packaging: Stretch film: Stretch hood: Shrink hood: Straps:

Add transport packaging: PS interlayer

Anti slip up the pallet:

Anti slip up on layer(s):

Stacking pattern: Interlocked

Pallet type: 1140x1140 # Layers: 3

Height [mm]: 1150 Weight[kg]: 1300

Length - LP [mm]: 1140

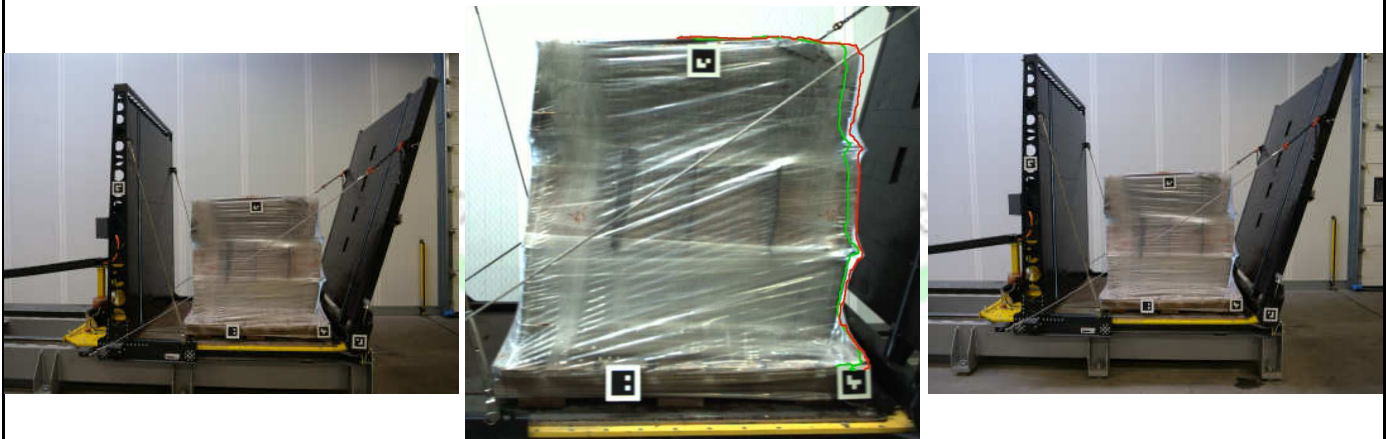
Width - BP [mm]: 1140

8. Name and signature responsible of the packaging: Kristof Decroos



9. Test conditions: Relative humidity: 48% - Temperature: 20°C - Sliding of the pallet is prevented mechanically.

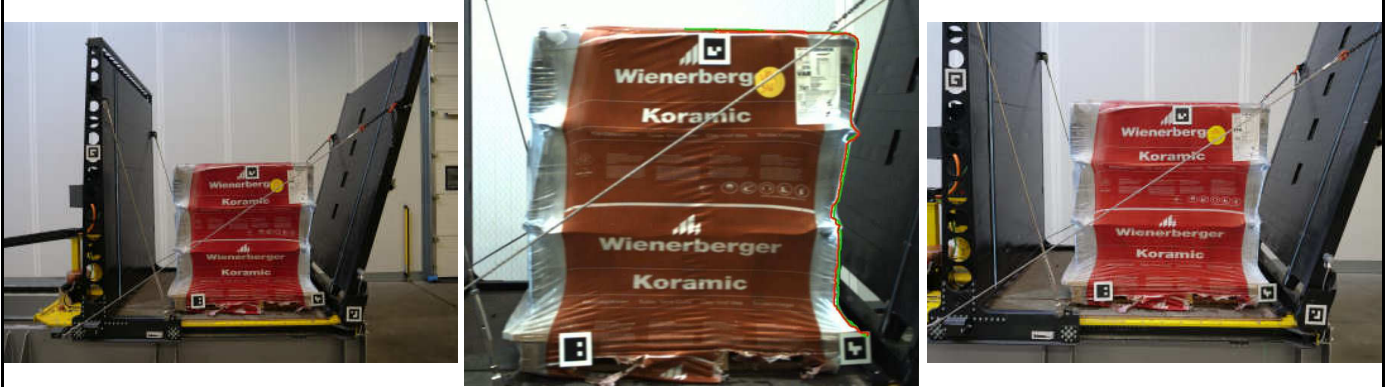
10a. Picture before - during - after the acceleration test in the BP-direction



10b. Conclusion BP-direction:
The tested load unit is shape stable in the BP-direction at 0.5g under the specified test conditions.

11a.

Picture before - during - after the acceleration test in the LP-direction



11b. Conclusion LP-direction:

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

12. Name and signature responsible of the test: Ing. J. Dendauw



Specifications of the test

Contact information 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 46, 8540 Deerlijk, Belgium

Test responsible: Dendauw Jelle

Test equipment: MJ1500 acceleration bench

Test date: 8/03/2021

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

Temperature [°C]: 20

Rel. humidity [%]: 48

Load conditions: Sliding of the load unit is prevented mechanically.

Attached documents to the report: /

Reference 20210308/105
Company: Wienerberger nv

Author Dendauw Jelle
LU name: Wienerberger 1140x1140 TDH TileVAR 576pcs

Contact Kristof Decroos

Date: 8/03/2021

Test specifications

Customer:	Wienerberger nv	Contact:	Kristof Decroos
Test facility:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium	Date	8/03/2021
Test engineer:	Dendauw Jelle	Temperature [°C]:	20 Rel. humidity [%]: 48
Load unit:	Wienerberger 1140x1140 TDH TileVAR 576pcs		

Conclusions and remarks

Conclusion LP-direction: The load unit behaves shape stable following EUMOS40509 at an acceleration of 0,5g.

Conclusion BP-direction: The load unit behaves shape stable following EUMOS40509 at an acceleration of 0,5g.

Remark:

- The tiles are wrapped prior to stretch hooding. 600 grams of the Nano33 17 is applied prior to hooding.

Pallet specifications

Name of the pallet: Wienerberger 1140x1140 TDH TileVAR 576pcs

A wooden 1140x1140 pallet containing 3 layers of tiles. Every layer contains 192 tiles which are stacked on the pallet. The tiles are grouped by 8 with a vertical strap. In between the layers there is a PS interlayer.



Pallet type: 1140x1140

Stacking pattern: Interlocked

Layers: 3 **Cases per layer:** 24

Tie sheet between load and pallet:

Tie sheet on top of layer(s):

LP [mm]: 1140 **BP[mm]:** 1140 **Weight [kg]:** 1300 **Height [mm]:** 1150

Reference 20210308/105
Company: Wienerberger nv

Author Dendauw Jelle Contact Kristof Decroos
LU name: Wienerberger 1140x1140 TDH TileVAR 576pcs

Date: 8/03/2021

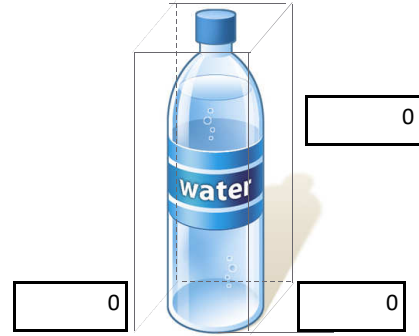
Primary packaging

Name.: /

Type:

Description:

/



Secondary packaging

Name: /

Theor. head space [mm]:

0

Gross weight [kg]:

0

0

Compression force [N]:

0

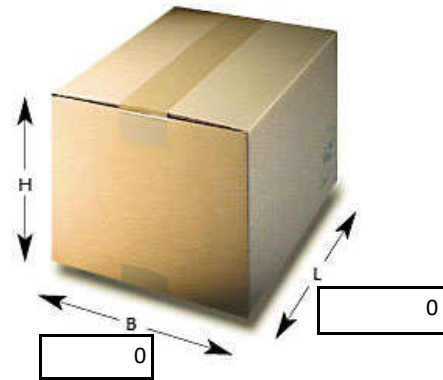
Fluting type:

Prim units per sec. unit:

0

Description:

/



Additional packaging

PS interlayer

Tertiary packaging - stretch hood

Hood reference: Aldo plastics stretch hood

Thickness [µm]: 120

Hood Type: Stretch hood

Initial dimensions [mm]x[mm]: 880x 750

Vertical stretch [%]:

Hor. stretch long side [%]:

Hor. stretch short side [%]:

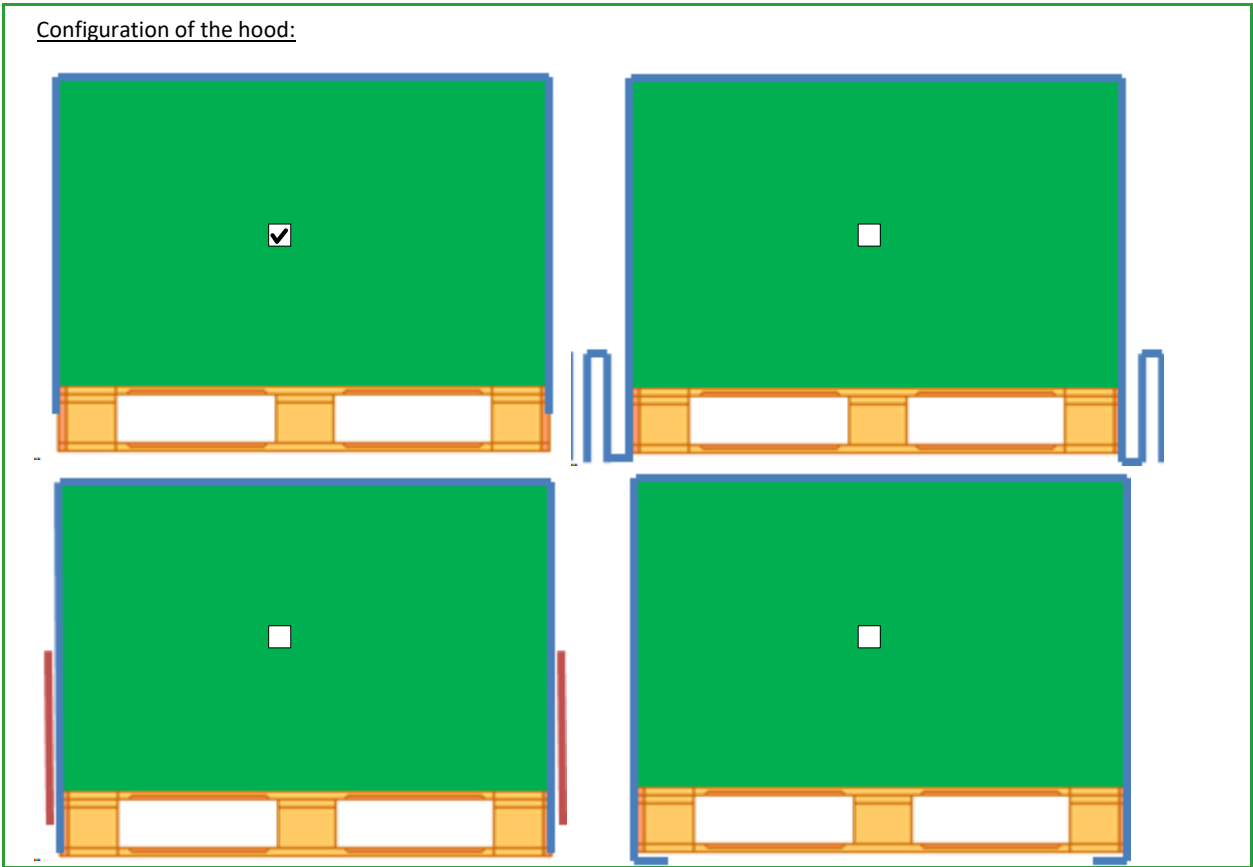
Reference 20210308/105
Company: Wienerberger nv

Author Dendauw Jelle
LU name: Wienerberger 1140x1140 TDH TileVAR 576pcs

Contact Kristof Decroos

Date: 8/03/2021

Configuration of the hood:



Reference 20210308/105
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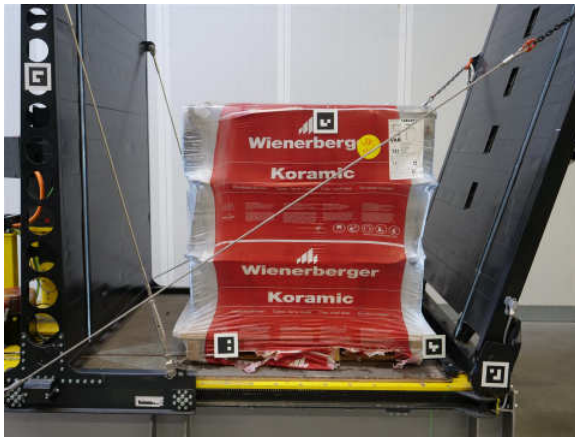
Date: 8/03/2021

0

Individual tests

Acceleration: 0,5 Direction: LP **EUMOS40509 compliant?**

BEFORE THE TEST



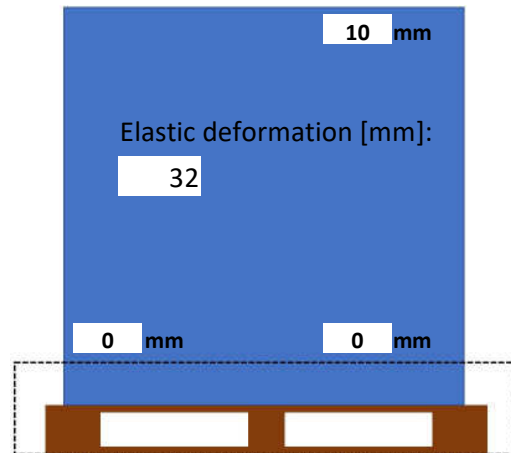
DURING THE TEST (max deformation)



AFTER THE TEST

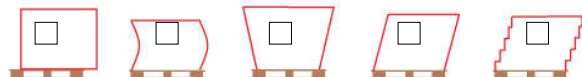


DEFORMATIONS



Testing history sample:

Ambient conditions



Comment:

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

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Company: Wienerberger nv

Author Dendauw Jelle Contact Kristof Decroos
LU name: Wienerberger 1140x1140 TDH TileVAR 576pcs

Date: 8/03/2021

Acceleration: 0,5 Direction: BP **EUMOS40509 compliant?**

BEFORE THE TEST



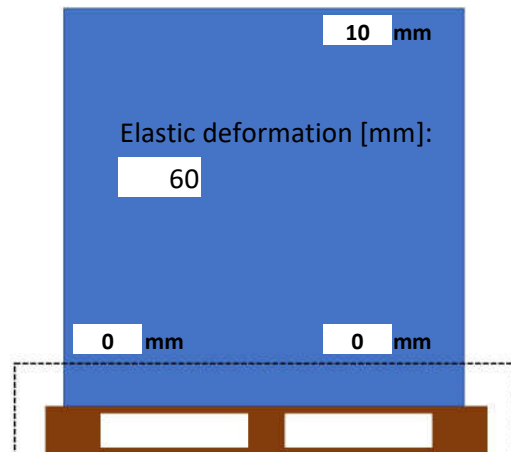
DURING THE TEST (max deformation)



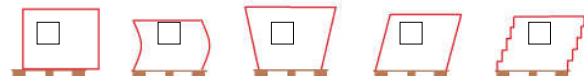
AFTER THE TEST



DEFORMATIONS



Testing history sample:
Ambient conditions



Comment:

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