

1. Ref. transp. packaging unit:	Wienerberger 1000x850 PER RETRO 238x90x48 690pcs
2. Ref. measuring report:	Wienerberger nv - 20200901007
3. Company:	Wienerberger nv
4. Performed test:	Acceleration test following EUMOS40509:2020
5. Test date:	1/09/2020
6. Test institute and responsible:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium - Dendauw Jelle

7. Description of the tested load unit:
 A wooden 1000x850 pallet containing 10 layers. In total there are 690 bricks PER RETRO 238x90x48 on the pallet.

Primary packaging: / Secondary packaging: /

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

Add transport packaging: /

Anti slip up the pallet:

Anti slip up on layer(s):

Stacking pattern: Interlocked

Pallet type: 1000x850 # Layers: 11

Height [mm]: 1000 Weight[kg]: 1060

Length - LP [mm]: 1000

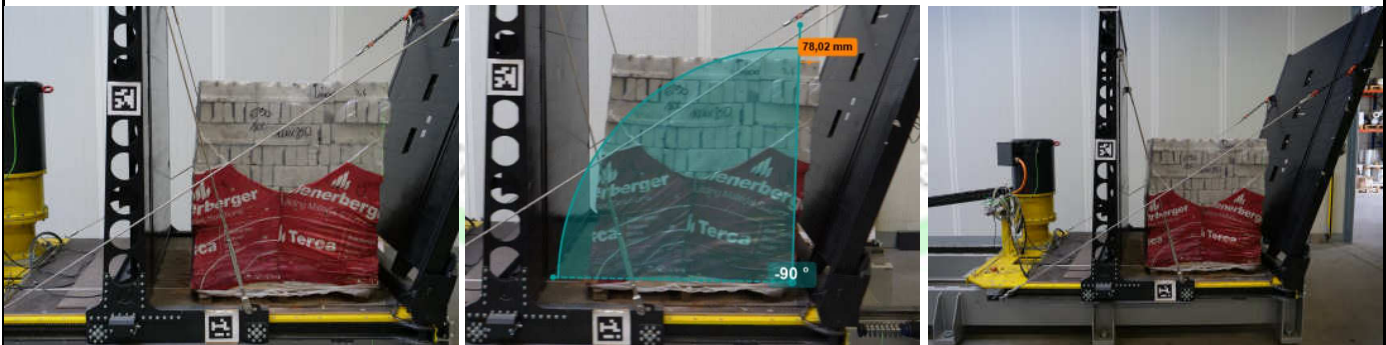
Width - BP [mm]: 850



8. Name and signature responsible of the packaging: Danny Wallaert

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

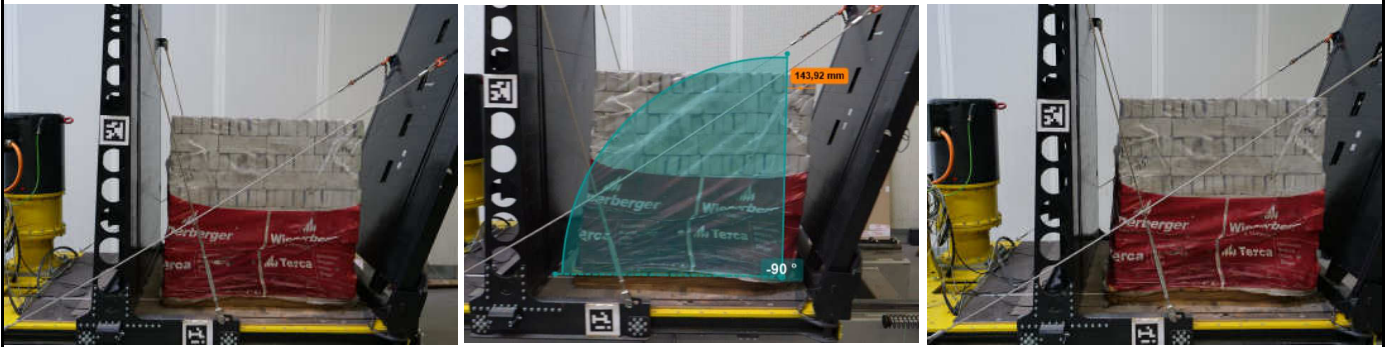
10a. Picture before - during - after the acceleration test in the BP-direction



10b. Conclusion BP-direction:
 The tested load unit is 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



10b. Conclusion BP-direction:

The tested load unit is 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.: Danny Wallaert
Tel. nr.: +32 (0) 56 24 96 27
Fax nr.: -
Mob. nr.: -
E-mail: Danny.Wallaert@wienerberger.com

Test details:

Test facility: ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium
Test responsible: Dendauw Jelle
Test equipment: MJ1500 acceleration bench
Test date: 1/09/2020
People attending: Jelle Dendauw (ESTL), Danny Wallaert (Wienerberger)

Temperature [°C]: 20
Rel. humidity [%]: 65
Load conditions: Sliding of the load unit is prevented mechanically.
Attached documents to the report: /

Reference 20200901/007
Company: Wienerberger nv

Author Dendauw Jelle
LU name: Wienerberger 1000x850 PER RETRO 238x90x48 690pcs

Contact: Danny Wallaert

Date: 1/09/2020

Test specifications

Customer:	Wienerberger nv	Contact:	Danny Wallaert
Test facility:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium	Date	1/09/2020
Test engineer:	Dendauw Jelle	Temperature [°C]:	20 Rel. humidity [%]: 50
Load unit:	Wienerberger 1000x850 PER RETRO 238x90x48 690pcs		

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.

Remarks:

- No straps
- The shrink hood should be free of any tears

Pallet specifications

Name of the pallet: Wienerberger 1000x850 PER RETRO 238x90x48 690pcs

A wooden 1000x850 pallet containing 10 layers. In total there are 690 bricks PER RETRO 238x90x48 on the pallet.



Pallet type: 1000x850

Stacking pattern: Interlocked

Layers: 11 **Cases per layer:**

Tie sheet between load and pallet:

Tie sheet on top of layer(s):

LP [mm]: 1000 **BP[mm]:** 850 **Weight [kg]:** 1060 **Height [mm]:** 1000

Reference 20200901/007
Company: Wienerberger nv

Author Dendauw Jelle Contact: Danny Wallaert Date: 1/09/2020
LU name: Wienerberger 1000x850 PER RETRO 238x90x48 690pcs

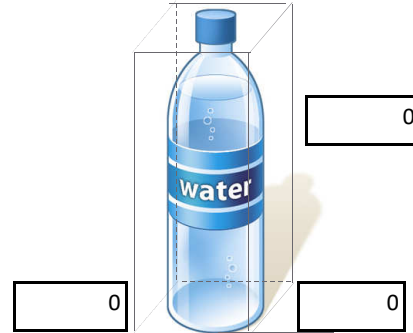
Primary packaging

Name: /

Type:

Description:

/



Secondary packaging

Name: /

Theor. head space [mm]:

0

Gross weight [kg]:

0

0

Compression force [N]:

0

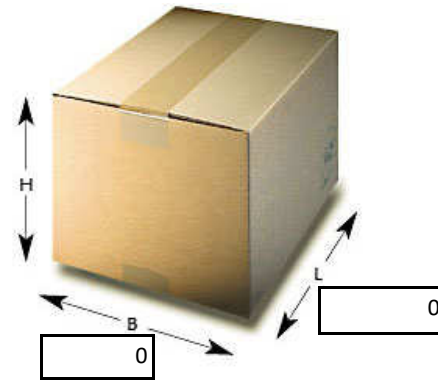
Fluting type:

Prim units per sec. unit:

0

Description:

/



Additional packaging

/

Tertiary packaging - stretch hood

Hood reference: Aldoplastics - 150µm perforated

Thickness [µm]:

150

Hood Type: Shrink hood

Initial dimensions [mm]x[mm]:

1270x 1060

Vertical stretch [%]:

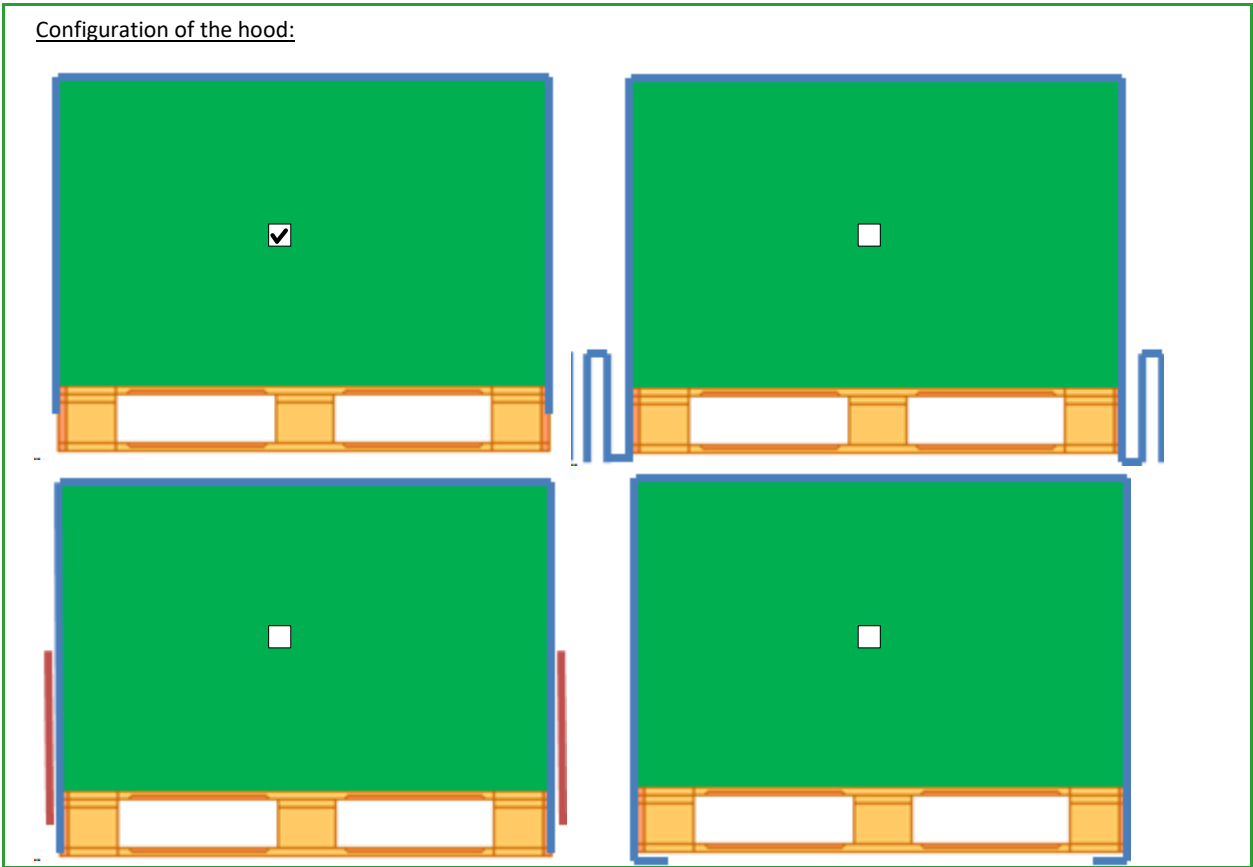
Hor. stretch long side [%]:

Hor. stretch short side [%]:

Reference 20200901/007
Company: Wienerberger nv

Author Dendauw Jelle **Contact:** Danny Wallaert **Date:** 1/09/2020
LU name: Wienerberger 1000x850 PER RETRO 238x90x48 690pcs

Configuration of the hood:



Reference 20200901/007
Company: Wienerberger nv


Author Dendauw Jelle Contact: Danny Wallaert Date: 1/09/2020
LU name: Wienerberger 1000x850 PER RETRO 238x90x48 690pcs

0


Individual tests

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


BEFORE THE TEST



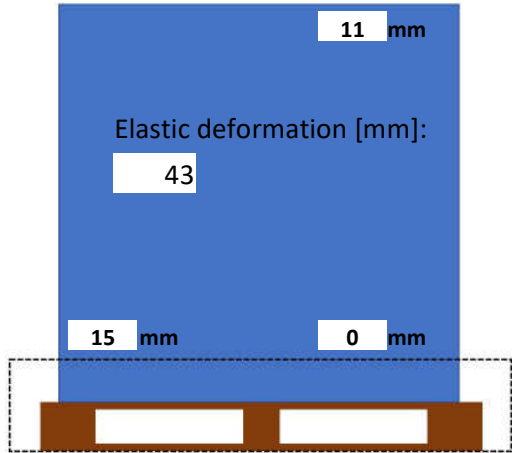
DURING THE TEST (max deformation)



AFTER THE TEST

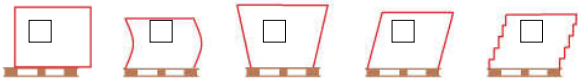


DEFORMATIONS



Testing history sample:
Ambient conditions.

Comment:
The pallet behaves shape stable.
Start position dynamic deflection: 24mm.



Reference 20200901/007
Company: Wienerberger nv

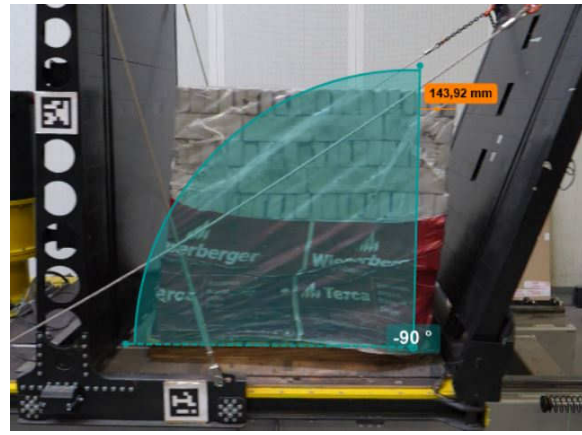
Author Dendauw Jelle Contact: Danny Wallaert Date: 1/09/2020
LU name: Wienerberger 1000x850 PER RETRO 238x90x48 690pcs

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

BEFORE THE TEST



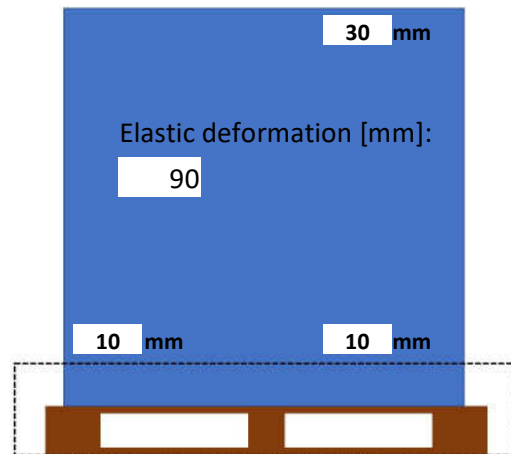
DURING THE TEST (max deformation)



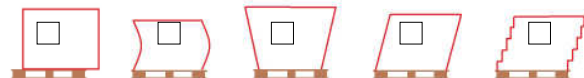
AFTER THE TEST



DEFORMATIONS



Testing history sample:
Ambient conditions.



Comment:

The pallet behaves shape stable.
Dynamic deflection start: 53mm.