

1. Ref. transp. packaging unit:	Wienerberger 1160x1160 BEE 215X102x65 540pcs RETRO
2. Ref. measuring report:	Wienerberger nv - 20211007002
3. Company:	Wienerberger nv
4. Performed test:	Acceleration test following EUMOS40509:2020
5. Test date:	7/10/2021
6. Test institute and responsible:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium - Dendauw Jelle

7. Description of the tested load unit:

A wooden 1160X1160 pallet containing several layers. In total there are 540 bricks BEE 215x102x65 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

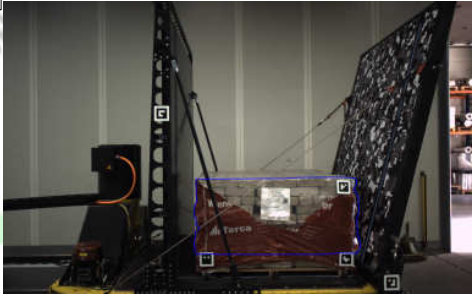
Pallet type: 1160x1160 # Layers: 10

Height [mm]: 745 Weight[kg]: 1500

Length - LP [mm]: 1160

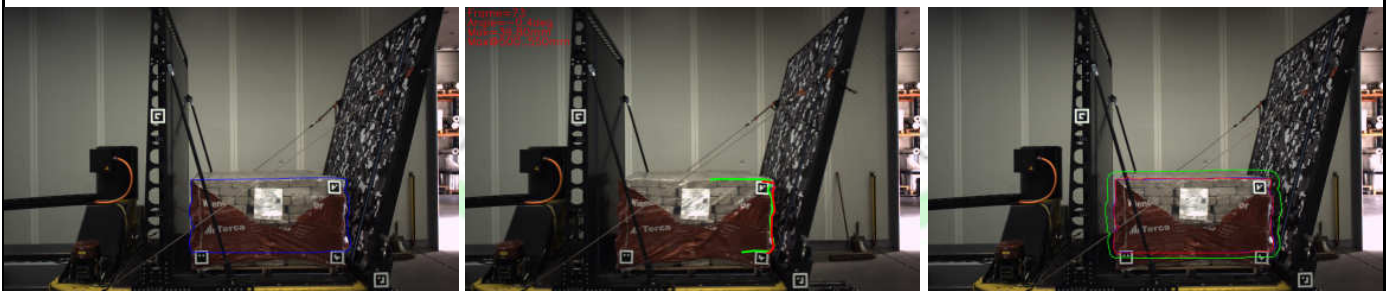
Width - BP [mm]: 1160

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



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

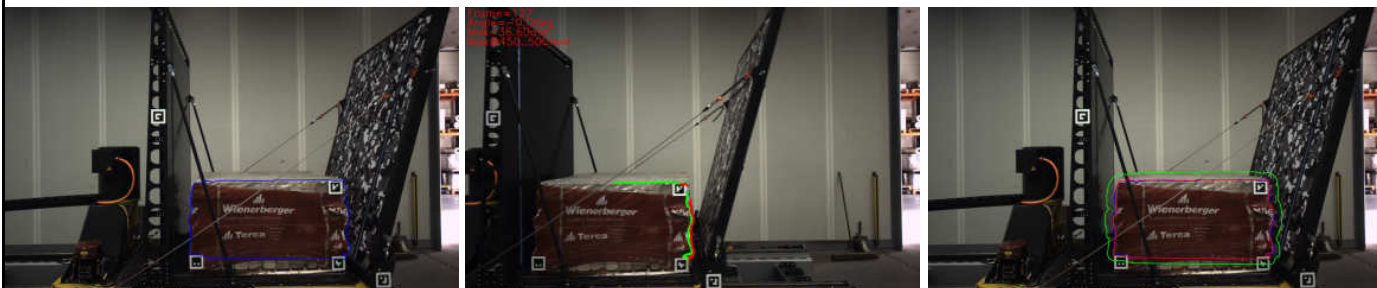
10a. Picture before - during - after the acceleration test in the BP-direction



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.: 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: 7/10/2021
People attending: Danny Wallaert (Wienerberger), Jelle Dendauw (ESTL)

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

Reference 20211007/002
Company: Wienerberger nv

Author Dendauw Jelle
LU name: Wienerberger 1160x1160 BEE 215X102x65 540pcs RETRO

Contact: Danny Wallaert

Date: 7/10/2021

Test specifications

Customer:	Wienerberger nv	Contact:	Danny Wallaert
Test facility:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium	Date	7/10/2021
Test engineer:	Dendauw Jelle	Temperature [°C]:	20 Rel. humidity [%]: 48
Load unit:	Wienerberger 1160x1160 BEE 215X102x65 540pcs RETRO		

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.

Pallet specifications

Name of the pallet: Wienerberger 1160x1160 BEE 215X102x65 540pcs RETRO

A wooden 1160X1160 pallet containing several layers. In total there are 540 bricks BEE 215x102x65 on the pallet.

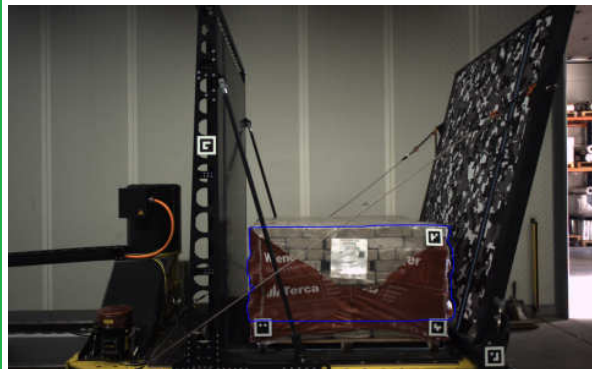
Pallet type: 1160x1160

Stacking pattern: Interlocked

Layers: 10 **Cases per layer:** 54

Tie sheet between load and pallet:

Tie sheet on top of layer(s):



LP [mm]: 1160 **BP[mm]:** 1160 **Weight [kg]:** 1500 **Height [mm]:** 745

Reference 20211007/002
Company: Wienerberger nv

Author Dendauw Jelle Contact: Danny Wallaert Date: 7/10/2021
LU name: Wienerberger 1160x1160 BEE 215X102x65 540pcs RETRO

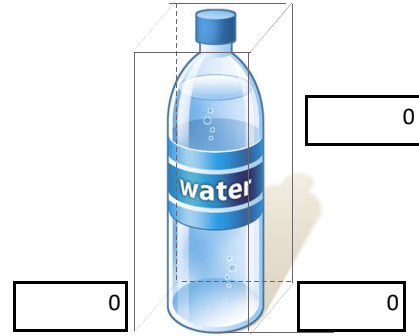
Primary packaging

Name.: /

Type:

Description:

/



Secondary packaging

Name: /

Theor. head space [mm]: 0

Gross weight [kg]: 0

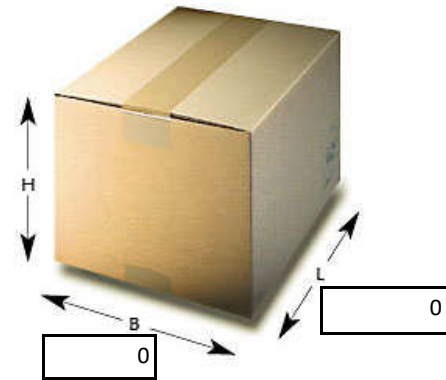
Compression force [N]: 0

Fluting type:

Prim units per sec. unit: 0

Description:

/



Additional packaging

/

Tertiary packaging - stretch hood

Hood reference: S-Hood 2500x850+600x0,15 Technosales Thickness [µm]: 150

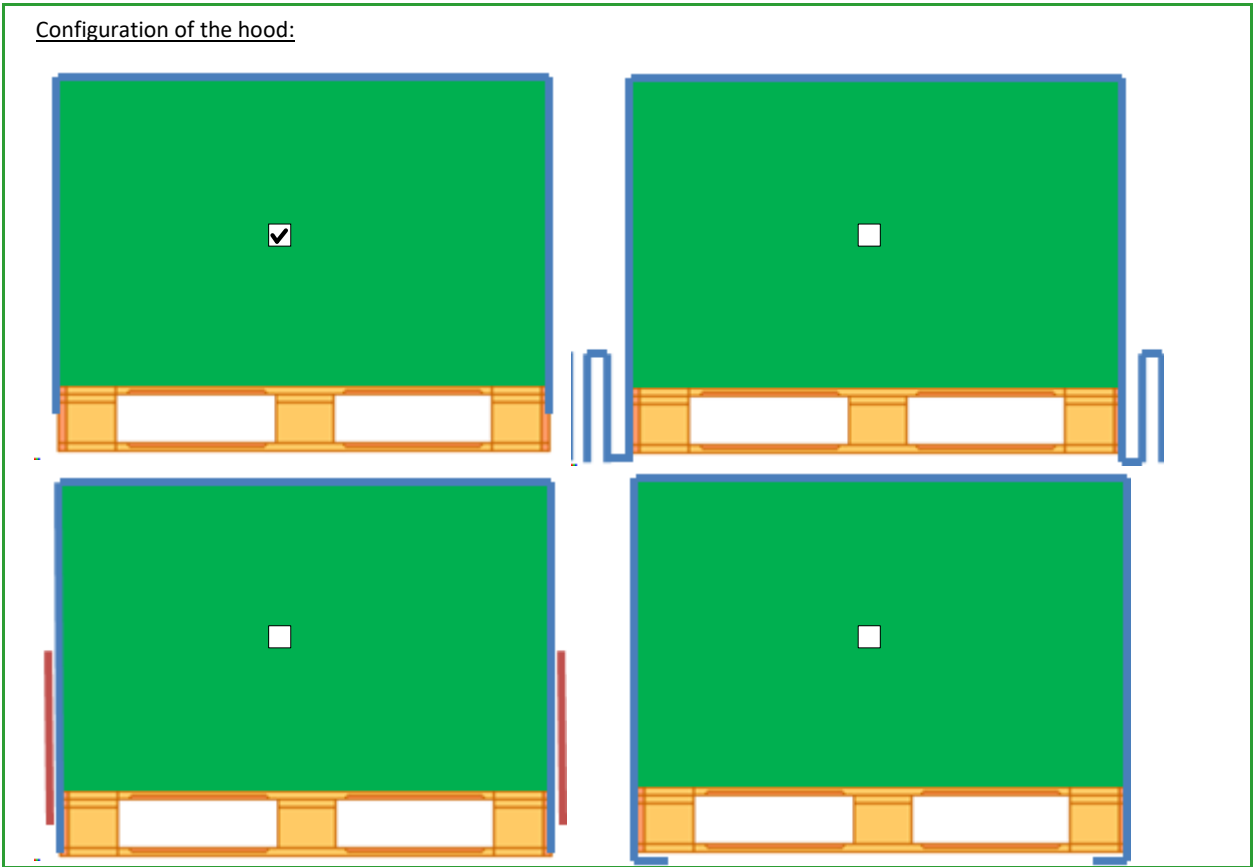
Hood_Type: Shrink hood Initial dimensions [mm]x[mm]: x

Vertical stretch [%]: Hor. stretch long side [%]: Hor. stretch short side [%]:

Reference 20211007/002
Company: Wienerberger nv

Author Dendauw Jelle **Contact:** Danny Wallaert **Date:** 7/10/2021
LU name: Wienerberger 1160x1160 BEE 215X102x65 540pcs RETRO

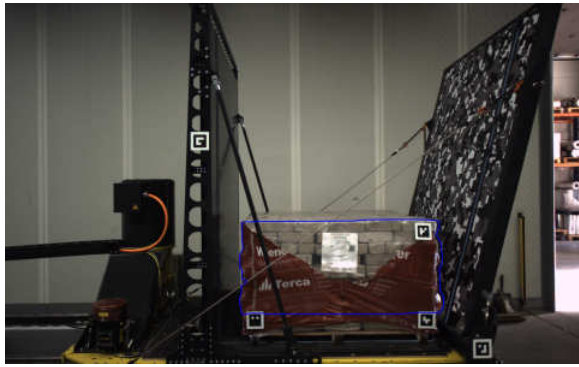
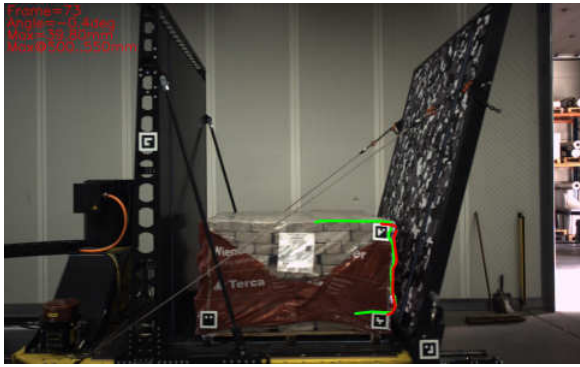
Configuration of the hood:



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Company: Wienerberger nv

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LU name: Wienerberger 1160x1160 BEE 215X102x65 540pcs RETRO

Individual tests

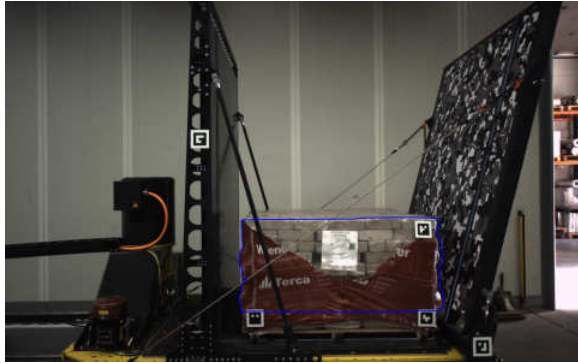
<u>Acceleration:</u> 0.5	<u>Direction:</u> BP	<u>EUMOS40509 compliant?</u> <input checked="" type="checkbox"/>
<u>BEFORE THE TEST</u>		<u>DURING THE TEST (max deformation)</u>
		
<u>AFTER THE TEST</u>		<u>DEFORMATIONS</u>
		<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p style="text-align: right;">10 mm</p> <p style="text-align: center;">Elastic deformation [mm]:</p> <p style="text-align: center; font-size: 24px;">40</p> <p style="text-align: center;">0 mm 0 mm</p>  </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;">      </div>
<p><u>Testing history sample:</u> Ambient conditions.</p>		
<p><u>Comment:</u> The pallet is behaving shape stable at 0,5g in the BP-direction</p>		

Reference 20211007/002
Company: Wienerberger nv

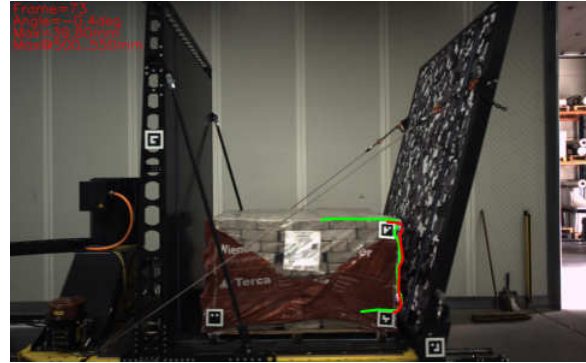
Author Dendauw Jelle Contact: Danny Wallaert Date: 7/10/2021
LU name: Wienerberger 1160x1160 BEE 215X102x65 540pcs RETRO

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

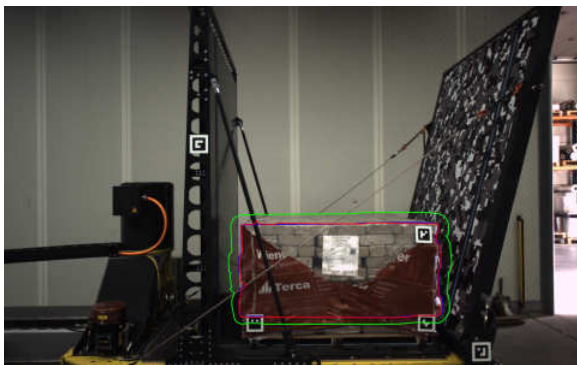
BEFORE THE TEST



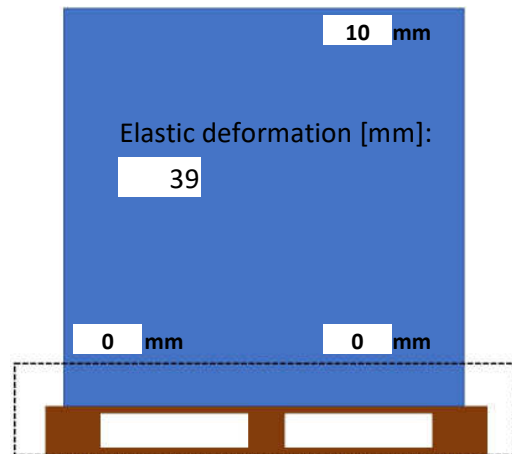
DURING THE TEST (max deformation)



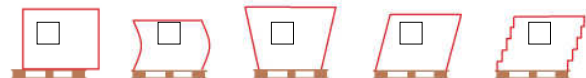
AFTER THE TEST



DEFORMATIONS



Testing history sample:
Ambient condition



Comment:

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