

|                                    |   |
|------------------------------------|---|
| 1. Ref. transp. packaging unit:    | Wienerberger 1020x820 LAN 215x102x65 612pcs - 2 vert straps     |
| 2. Ref. measuring report:          | Wienerberger nv - 20200901002                                   |
| 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 1020x820 pallet containing 11 layers. In total there are 612 bricks LAN 215X102X65 on the pallet. There are 2 vertical straps in the LP-direction.

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: 1020x820 # Layers: 11

Height [mm]: 1150 Weight[kg]: 1360

Length - LP [mm]: 1020

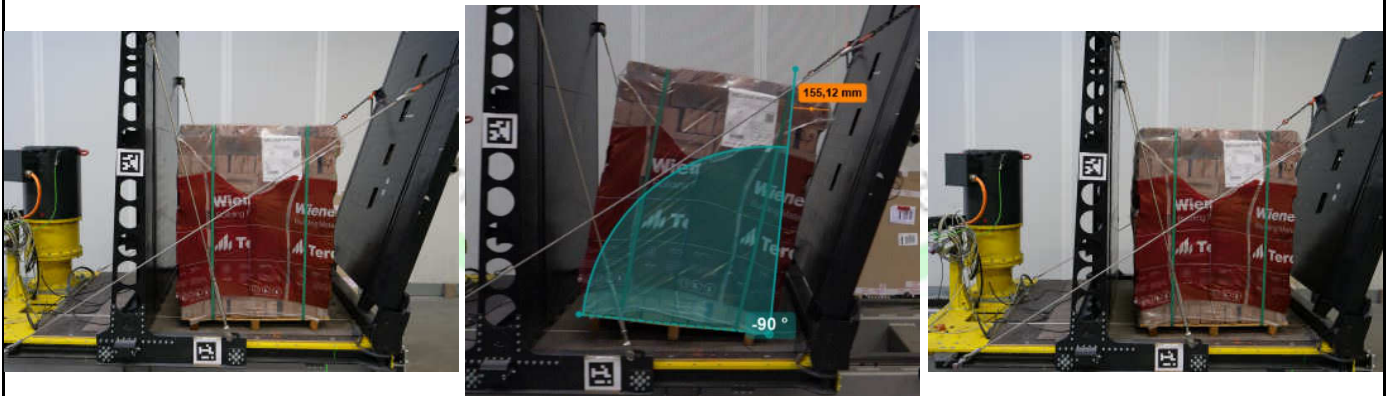
Width - BP [mm]: 820



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** 20200901/002  
**Company:** Wienerberger nv

**Author** Dendauw Jelle  
**LU name:** Wienerberger 1020x820 LAN 215x102x65 612pcs - 2 vert straps

**Contact:** Danny Wallaert

**Date:** 1/09/2020

## Test specifications

|                       |   |                          |                                 |
|-----------------------|---|--------------------------|---------------------------------|
| <b>Customer:</b>      | Wienerberger nv   | <b>Contact:</b>          | Danny Wallaert                  |
| <b>Test facility:</b> | ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium             | <b>Date</b>              | 1/09/2020                       |
| <b>Test engineer:</b> | Dendauw Jelle   | <b>Temperature [°C]:</b> | 20 <b>Rel. humidity [%]:</b> 50 |
| <b>Load unit:</b>     | Wienerberger 1020x820 LAN 215x102x65 612pcs - 2 vert straps |                          |                                 |

## 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:**

- 2 straps in the vertical direction
- The shrink hood should be free of any tears at the bottom

## Pallet specifications

**Name of the pallet:** Wienerberger 1020x820 LAN 215x102x65 612pcs - 2 vert straps

A wooden 1020x820 pallet containing 11 layers. In total there are 612 bricks LAN 215X102X65 on the pallet. There are 2 vertical straps in the LP-direction.

**Pallet type:** 1020x820

**Stacking pattern:** Interlocked

**# Layers:** 11 **Cases per layer:**

**Tie sheet between load and pallet:**

**Tie sheet on top of layer(s):**



**LP [mm]:** 1020 **BP[mm]:** 820 **Weight [kg]:** 1360 **Height [mm]:** 1150

Reference 20200901/002  
Company: Wienerberger nv

Author Dendauw Jelle      Contact: Danny Wallaert      Date: 1/09/2020  
LU name: Wienerberger 1020x820 LAN 215x102x65 612pcs - 2 vert straps

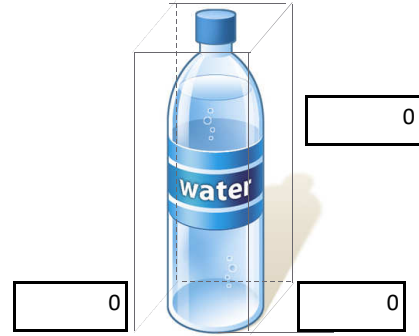
Primary packaging

Name.: /

Type:

Description:

/



Secondary packaging

Name: /

Theor. head space [mm]:

0

Gross weight [kg]:

0

0

Compression force [N]:

0

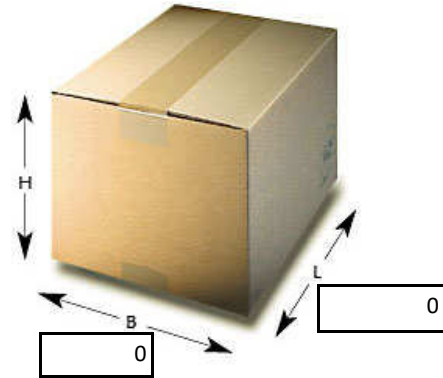
Fluting type:

Prim units per sec. unit:

0

Description:

/



Additional packaging

/

### Tertiary packaging - stretch hood

Hood reference: SHHS

Thickness [µm]: 125

Hood\_Type: Shrink hood

Initial dimensions [mm]x[mm]: 1200x 1000

Vertical stretch [%]:

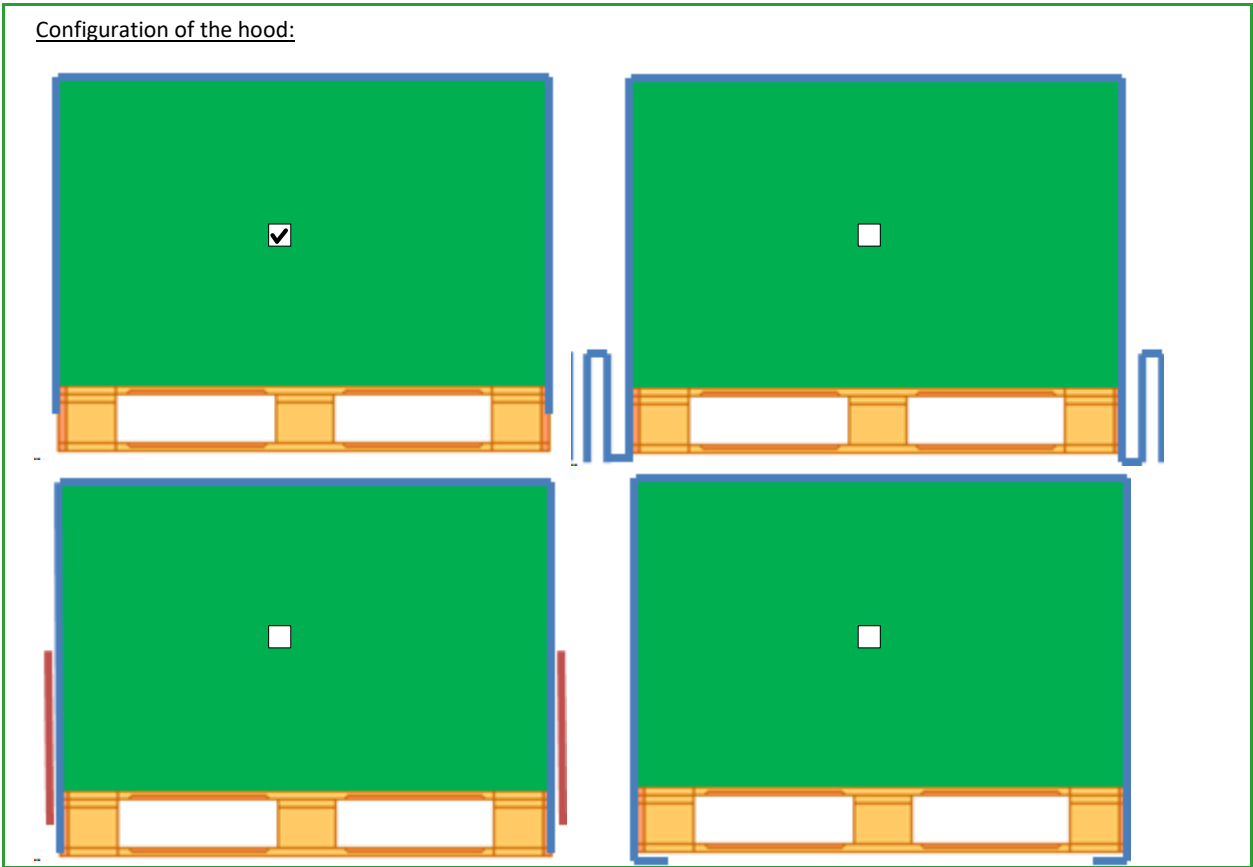
Hor. stretch long side [%]:

Hor. stretch short side [%]:

**Reference** 20200901/002  
**Company:** Wienerberger nv

**Author** Dendauw Jelle    **Contact:** Danny Wallaert    **Date:** 1/09/2020  
**LU name:** Wienerberger 1020x820 LAN 215x102x65 612pcs - 2 vert straps

Configuration of the hood:



Reference 20200901/002  
Company: Wienerberger nv

Author Dendauw Jelle  
LU name: Wienerberger 1020x820 LAN 215x102x65 612pcs - 2 vert straps

Contact: Danny Wallaert

Date: 1/09/2020

0

### Individual tests

|   |  |                      |   |  |  |
|---|--|----------------------|---|--|--|
| <u>Acceleration:</u> 0,5  |  | <u>Direction:</u> BP |   | <b>EUMOS40509 compliant?</b> <input checked="" type="checkbox"/> |  |
| <b><u>BEFORE THE TEST</u></b>   |  |                      | <b><u>DURING THE TEST (max deformation)</u></b> |  |  |
|   |  |                      |   |  |  |
| <b><u>AFTER THE TEST</u></b>  |  |                      | <b><u>DEFORMATIONS</u></b>                      |  |  |
|   |  |                      |   |  |  |
| <u>Testing history sample:</u><br>Ambient conditions.   |  |                      |   |  |  |
| <b><u>Comment:</u></b><br>The pallet is behaving shape stable at 0,5g in the BP-direction.<br>Start dynamic deflection: 68mm. |  |                      |   |  |  |



Reference 20200901/002  
Company: Wienerberger nv

Author Dendauw Jelle  
LU name: Wienerberger 1020x820 LAN 215x102x65 612pcs - 2 vert straps

Contact: Danny Wallaert

Date: 1/09/2020

Acceleration: 0,5

Direction: LP

EUMOS40509 compliant?

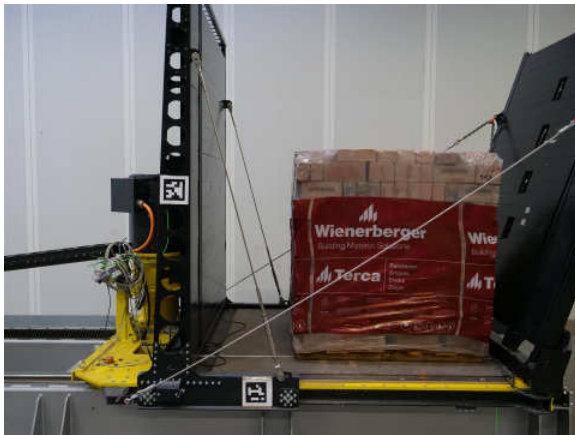
**BEFORE THE TEST**



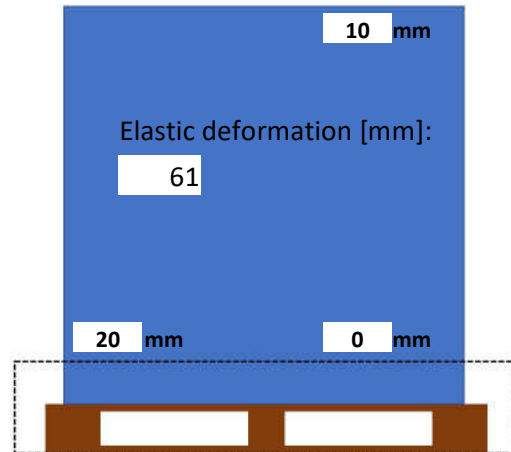
**DURING THE TEST (max deformation)**



**AFTER THE TEST**

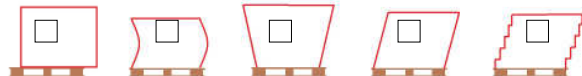


**DEFORMATIONS**



Testing history sample:

Ambient



Comment:

The pallet is behaving shape stable.  
Start position dynamic deflection: 51mm.