

Certificate of shape stability

5.	Date:	31/01/2019	EN12195-1:2010
4.	Performed test:	Acceleration test according to: Be RD of April 27th 2007, EUMOS 40509,	
з.	Company:	Wienerberger nv	
2.	Ref. measuring report:	Wienerberger nv -	20190131008
1.	Ref. transp. packaging unit:	Wienerberger 1200x1000 ZON 500x140x224	4 80pcs - 5 horizontal straps

6. Description of the tested transport packaging unit

Description:

A wooden 1200x1000 pallet containing 5 layers. In total there are 80 bricks ZON 500X140X224 on the pallet. There are 5 horizontal straps. This is a reinforced wooden pallet for the UK



8. Test conditions: Relative humidity: 50% - Temperature: 2°C - Sliding of the pallet is prevented mechanically.
9. Picture in the BP-direction after the test.



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



11.Name and signature responsable of the test: Ing. J. Dendauw

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

Ref. transp. packaging unit:	Wienerberger 1200x1000 ZON 500x1 straps		140x224 80pcs - 5 horizontal	
Ref. measuring report:	Wienerberger nv	-	20190131008	

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Specifications of the test

<u>Client</u>

<u>Company:</u>	Wienerberger nv			
Address:	Kapel Ter Bede 121			
	8500 Kortrijk			
	België			
Contact pers.:	Danny Wallaert			
<u>Tel. nr.:</u>	+32 (0) 56 24 96 27			
<u>Fax nr.:</u>	-			
<u>Mob. nr.:</u>	-			
<u>E-mail:</u>	Danny.Wallaert@wienerberger.com			

Test details:

Test facility:	ESTL nv, wafelstraat 45, 8540 Deerlijk, België			
Test responsible:	Ing. Jelle Dendauw			
Test equipment:	MJ1500 acceleration bench			
<u>Test date:</u>	31/01/2019			
People attending:	Jelle Dendauw (ESTL), Danny Wallaert (Wienerberger nv)			
Temperature [°C]:	20			
<u>Rel. humidity [%]:</u>	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.







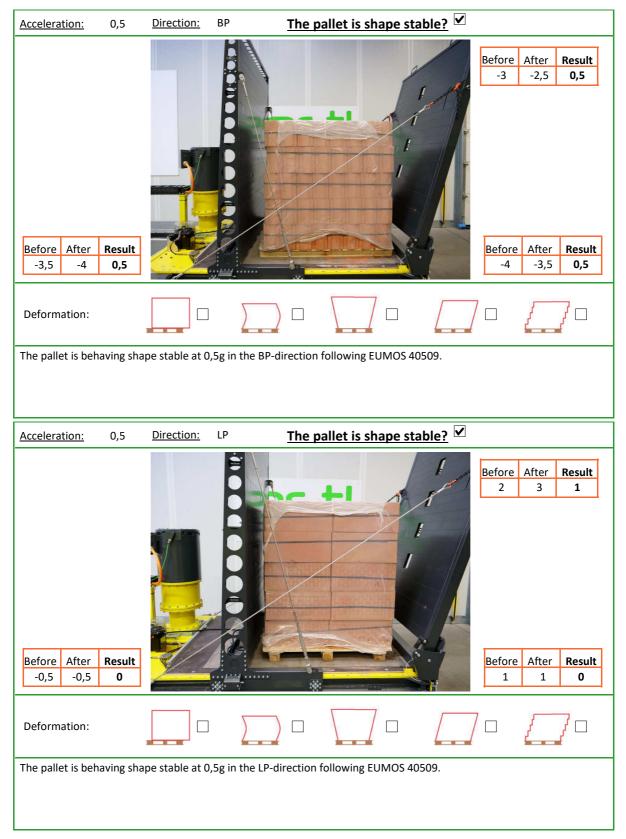


Engineering

Reference20190131/008Company:Wienerberger nv

AuthorDendauw JelleContactDanny WallaertDate:31/01/2019Pallet nameWienerberger1200x1000ZON 500x140x22480pcs - 5 horizontal s

Conclusions











Load Securing

Engineering

Company: Wienerberger nv

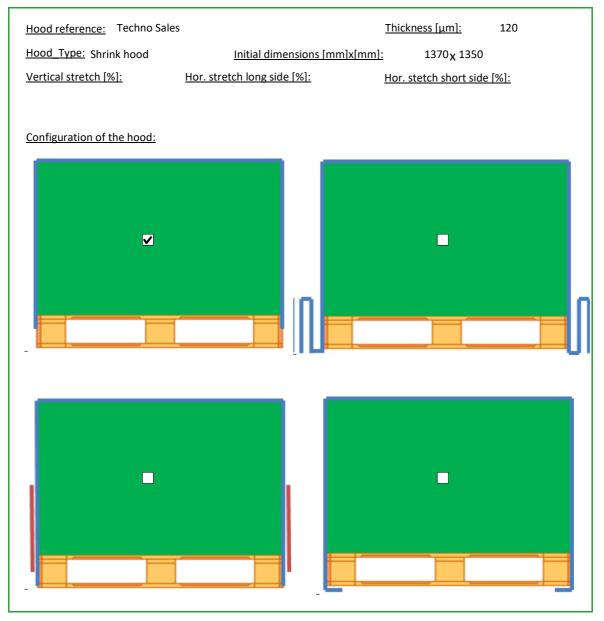
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General remarks and conclusions

Conclusions:

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

Hood specifications









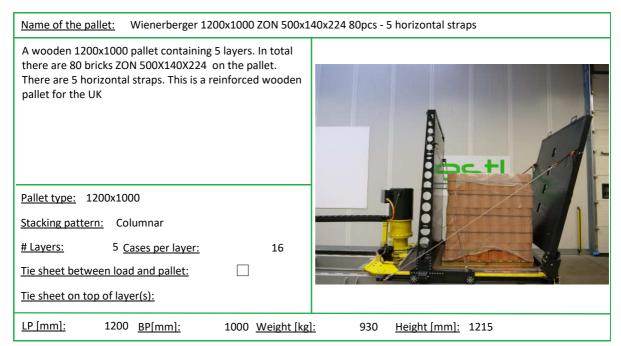


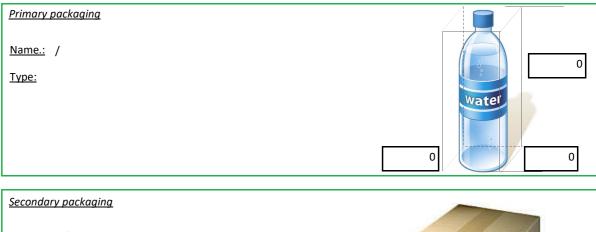


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AuthorDendauw JelleContactDanny WallaertDate:31/01/2019Pallet nameWienerberger1200x1000ZON 500x140x22480pcs - 5 horizontal s

Pallet specifications





Name:/Theor. head space [mm]:Gross weight [kg]:Compression force [N]:Fluting type:Prim units per sec. unit:	0 0 0	0	
			0
Additional packaging			
horizontal straps			