

1. Ref. transp. packaging unit:	Indus Neva pallet 1160x1160 1000kg big bag
2. Ref. measuring report:	Indus bulk logistics - 20231006101
3. Company:	Indus bulk logistics
4. Performed test:	Acceleration test following EUMOS40509:2020
5. Test date:	6/10/2023
6. Test institute and responsible:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium - Dendauw Jelle

7. Description of the tested load unit:

The Indus Neva pallet is a plastic 1160x1160 with 4 vertical pillars. The pillars have a height of 1960mm. In between the pillars a big bag is positioned. This big bag is attached to the top of the pillars. The big bag contains 1000kg of PP.

Primary packaging: / Secondary packaging: /

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

Add transport packaging: Special Indus pallet

Anti slip up the pallet:

Anti slip up on layer(s):

Stacking pattern: /


Pallet type: Indus 1160x1160 # Layers: 1

Height [mm]: 1960 Weight[kg]: 1050

Length - LP [mm]: 1160

Width - BP [mm]: 1160

8. Name and signature responsible of the packaging: Robert Den Hertog



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: Indus bulk logistics
Address: Botter 8
2411 N Bodegraven
Nederland
Contact pers.: Robert Den Hertog
Tel. nr.: +31(0)172 72 71 69
Fax nr.: 0
Mob. nr.: 0
E-mail: info@indus_bulklogistics.com

Test details:

Test facility: ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium
Test responsible: Dendauw Jelle
Test equipment: MJ1500 acceleration bench
Test date: 6/10/2023
People attending: Jelle Dendauw (ESTL)

Temperature [°C]: 20
Rel. humidity [%]: 48
Load conditions: Sliding of the load unit is prevented mechanically.
Attached documents to the report: /

Reference 20231006/101
Company: Indus bulk logistics

Author Dendauw Jelle
LU name: Indus Neva pallet 1160x1160 1000kg big bag

Contact: Robert Den Hertog
Date: 6/10/2023

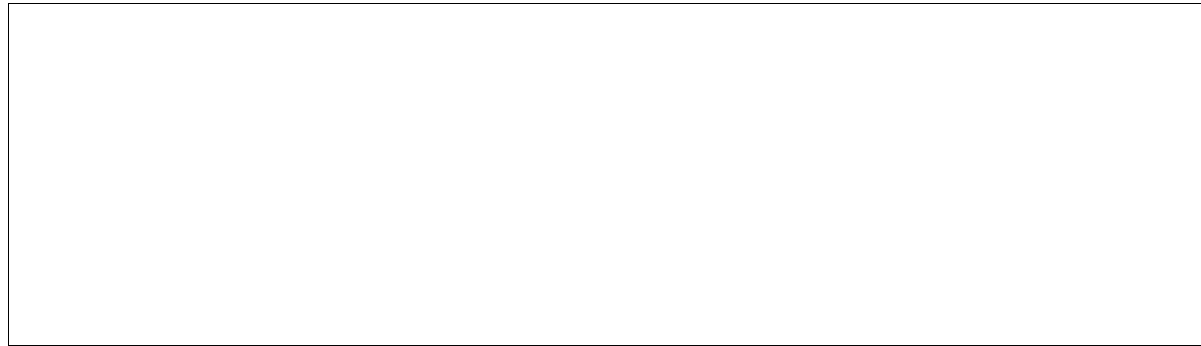
Test specifications

<u>Customer:</u>	Indus bulk logistics	<u>Contact:</u>	Robert Den Hertog
<u>Test facility:</u>	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium	<u>Date</u>	6/10/2023
<u>Test engineer:</u>	Dendauw Jelle	<u>Temperature [°C]:</u>	20 <u>Rel. humidity [%]:</u> 48
<u>Load unit:</u>	Indus Neva pallet 1160x1160 1000kg big bag		

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: Indus Neva pallet 1160x1160 1000kg big bag

The Indus Neva pallet is a plastic 1160x1160 with 4 vertical pillars. The pillars have a height of 1960mm. In between the pillars a big bag is positioned. This big bag is attached to the top of the pillars. The big bag contains 1000kg of PP.



Pallet type: Indus 1160x1160

Stacking pattern: /

Layers: 1 Cases per layer: 1

Tie sheet between load and pallet:

Tie sheet on top of layer(s):

LP [mm]: 1160 BP[mm]: 1160 Weight [kg]: 1050 Height [mm]: 1960

Reference 20231006/101
Company: Indus bulk logistics

Author Dendauw Jelle Contact: Robert Den Hertog
LU name: Indus Neva pallet 1160x1160 1000kg big bag

Date: 6/10/2023

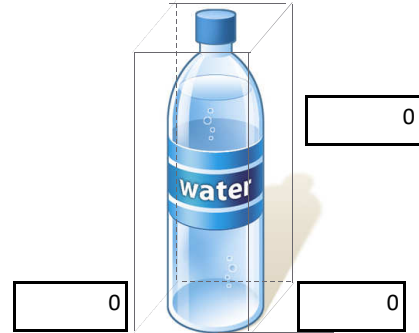
Primary packaging

Name.: /

Type:

Description:

/



Secondary packaging

Name: /

Theor. head space [mm]:

0

Gross weight [kg]:

0

Compression force [N]:

0

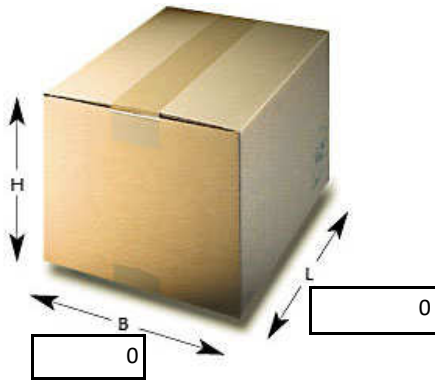
Fluting type:

Prim units per sec. unit:

0

Description:

/



Additional packaging

Special Indus pallet

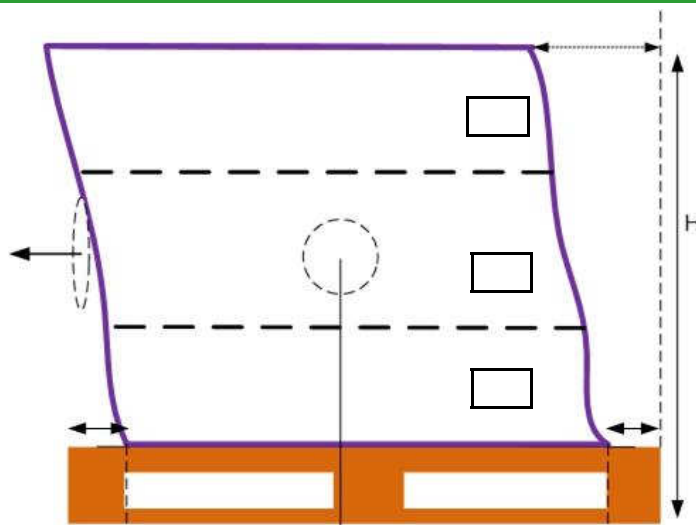
Tertiary packaging - stretch wrap

Containment force short side [kg]:

Top:

Mid:

Bottom:



Containment force long side [kg]:

Top:

Mid:

Bottom:

The measurement protocol is available upon request.



Packaging



Type Approval



Load Securing



Engineering

Reference 20231006/101
Company: Indus bulk logistics

Author Dendauw Jelle
LU name: Indus Neva pallet 1160x1160 1000kg big bag

Contact: Robert Den Hertog

Date: 6/10/2023

<u>Stretch film:</u> /	<u>Thickness [µm]:</u> 0	<u>Producer:</u> /
<u>Pre-stretch[%]:</u>	<u>2nd Stretch[%]:</u>	<u>Stretch wrapper:</u>
<u>Weight (g):</u>	<u>Practical stretch [%]:</u>	<u>Pallet roping:</u> <input type="checkbox"/> <u># Wrappings:</u>
<u>Overlap when going up [%]:</u>	<u>Overlap when going down [%]:</u>	
<u>Position of the roping [mm]:</u>	<u>Foil overlap at the top [mm]:</u>	
<u>Type of cycle:</u>		

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Company: Indus bulk logistics


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LU name: Indus Neva pallet 1160x1160 1000kg big bag

Contact: Robert Den Hertog
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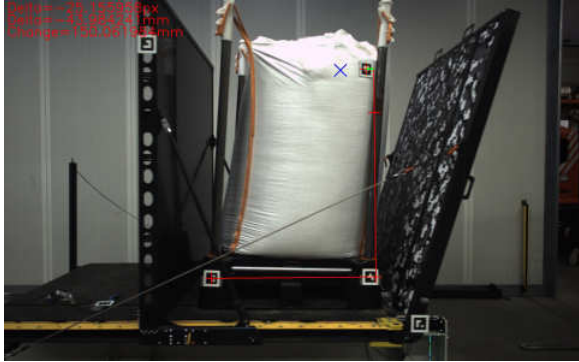
Individual tests

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


BEFORE THE TEST



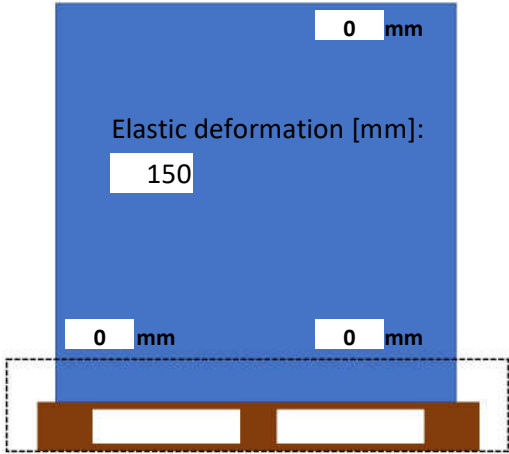
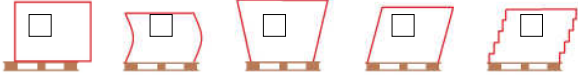
DURING THE TEST (max deformation)



AFTER THE TEST



DEFORMATIONS

Testing history sample:
Ambient conditions.

Comment:
The pallet behaves shape stable.

Reference 20231006/101
Company: Indus bulk logistics

Author Dendauw Jelle
LU name: Indus Neva pallet 1160x1160 1000kg big bag

Contact: Robert Den Hertog
Date: 6/10/2023

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

BEFORE THE TEST



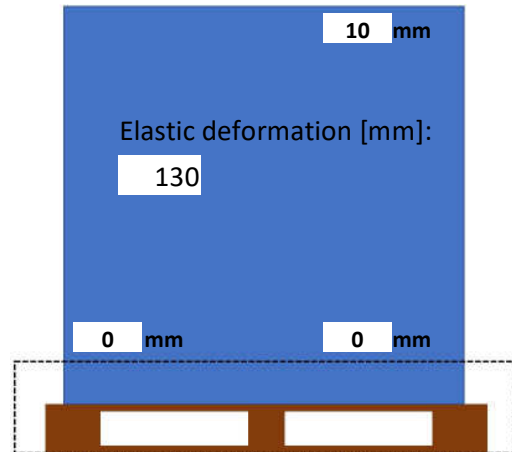
DURING THE TEST (max deformation)



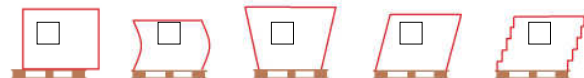
AFTER THE TEST



DEFORMATIONS



Testing history sample:
Ambient conditions.



Comment:

The pallet behaves shape stable.