

CERTIFICATE



Version: 01	Stress test with Core for ISO- sea co	EUROSAFE Certificate no. 2020-06-001				
Based on expertise no:	2018-08-001/Worms	Place of testing:	Oostrum*)	Test date:	09.04.2020	
Client	Cordstrap B.V., Nobelstraat 1, 5807 GA Oostrum Netherlands	Persons present	EUROSAFE Gn Webex confer	Cordstrap B.V.: Reiner Gohlke, Perry van Berlo (Client) EUROSAFE GmbH: Wolfgang Neumann/EUROSAFE GmbH via Webex conference. Practical examination has already been carried out in 2018		

1. Basic / general

This certificate confirms the functionality and stability of the triple restraint system with a band width of Certificate confirms the functionality and stability of the triple restraint system with a belt width of 32 mm +/- 1 mm (horizontal belt) and 40 mm (vertical belt) of the Cordstrap B.V. by means of a laboratory load test in the overall system.

2. Impacts in relation to mode of transport (CTU:2014; Stand 04-2020)

Transport path	Road transport	Combined road/rail transport	Sea transport (area C)	
Acceleration C _x	0,8 x F _G	0,5 x F _G	0,4/0,8 x F _G	
Performance of the system with 4 lashing points per 1.000 daN μ = 0,4. Charging weight: 20.000 kgs	max. 0,8 g	0,5g 0,4g	max. 1,0 g max. 0,4 g max. 0,4 g max. 1,0 g	
	Load securing in driving direction Calculation basis according to CTU Appendix 7 / Chapter 4.2.3, EN 12195-	In- and against driving direction Basis of calculation according to CTU Appendix 7 / Chapter 4.2.3	Transversal to driving direction Basis of calculation according to CTU Appendix 7 / Chapter 4.2.3	
1, VDI 2700 Sheet 2 With form-fitting loadir container door and a fr 0,4 (static), 1 lashing sy: MSL of 4.000 daN (4 las enough.	, , , , , , , , , , , , , , , , , , , ,	With form-fitting loading to the	In the case of form-fitting loading	
	With form-fitting loading to the	container door and a friction of at	transversely to the direction of	
	container door and a friction of at least	least 0,4 (static), 1 lashing system	travel, the load securing is	
	0,4 (static), 1 lashing system with an MSL of 4.000 daN (4 lashing points) is	with an MSL of 4.000 daN (4 lashing points) is enough.	sufficiently secured via form closure (congestion with airbags or pallets).	
	enough.		With form-fitting loading to the container door and a friction of at	
	Result: CTU requirements for cargo securing is fulfilled!	Result: CTU requirements for cargo securing is fulfilled!	least 0,4 (static), 1 lashing system with an MSL of 4.000 daN (4 lashing points) is enough.	
			Result: CTU requirements for cargo securing is fulfilled!	

Note: The calculation bases are taken from the 2014 CTU code. The lashing system must be mounted in such a way that the lashing tapes on the load are also adjacent to a normal load.

Result

After 60 load changes, the overall system remained from 4.000 daN to 6.000 daN and back to 4.000 daN (each within 60 seconds) without any functional restriction. The slip on the connecting buckles was at < 2 mm after 60 cyclic impacts. With a maximum load of 6.000 daN, the load securing function is fully maintained. The test is deemed to have been passed. Further studies for the dynamic loads in the container in the combined transport of rail/road and road are available from 2018 (test certificate 2018-08-001/Worms) at Cordstrap B.V.

Complete system tester:	EUROSAFE GmbH, Wolfgang Neumann, certified expert according to DIN EN ISO/IEC 17024:2012 for road, rail and sea transport (incl. dangerous goods) for Load securing, packaging and load unit formation	number:	ZN-20120507-0253 valid until 08/2022	
Signature / stamp:	wolfgang Neumann Wolfgang Neumann	Location of issue: Steinwingertstraße 27 D-63457 Hanau		
	One En ISO/IEC 17024 2017 22 24 2012 45 47 425 3 48 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Date of certificate issue: 27.05.2020		

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