Certificate No: LR21320521TA
Issue Date: 07/10/2021
Expiry Date: 07/05/2026

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**NORMA Germany GmbH**
Address	Edisonstrasse 4, 63477 Maintal, Germany
Place of Production	NORMA Germany GmbH Gewerbepark Gerbershausen, Rasmussenstraße 1-17, 37318 Gerbershausen, Germany
Type	Mechanical Pipe Joints
Description	Pipe couplings for plain ended, strain loaded pipe combinations and plastic pipes.
Trade Name	NORMACONNECT® PLASTGRIP/PLASTGRIP E NORMACONNECT® COMBIGRIP/COMBIGRIP E
Application	In Marine, offshore and industrial installations,where plastic pipes are acceptable by IMO and the National Authorities of the Flag State.
Specified Standard	Lloyd's Register's Rules for the Classification of Ships (2021) / Special Service Craft(2021), IACS Unified Requirement P2, 2.7.4 rev. 10 Jan 2021

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Olaf Schmidt

Lead Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Ratings	Type	Pipe O.D.(mm)	MAWP (bar)
	PLASTGRIP/PLASTGRIP E	40 to 168.3	10
	COMBIGRIP/COMBIGRIP E	40/38* to 168.3	10
	*plastic/metal		
	Temperature Range	:-30 °C to+125 °C (EPDM)	
		-20 °C to +80 °C (NBR)	
		-15 °C to +210 °C (FKM/FPM)	

Other Conditions Suitable provision for expansion is to be made where necessary in each range of pipes. For material combinationsfor the corresponding media the producer's recommendations and instructions to be sought.
Marking of the products to show:
Producer's name or trade mark, type designation, material combination, size, gasket material, torque and max. working pressure or pressure Class.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 02/20017 (E5)

The Design Appraisal Document HMD 11247-03, Issue No. 5 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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