

Approval of Material Manufacturers
Zulassung von Werkstoffherstellern



This is to certify that the works of
Hiermit wird bescheinigt, dass die Firma

FONDERIE PALMIERI S.P.A.
VIA BALDANZESE, 8
50040 CALENZANO (FI)
ITALY

has been subjected to an approval test in accordance with the Society's Rules with satisfactory results and is approved for the manufacture of the following products:

einer Zulassungsprüfung nach den Vorschriften des Germanischen Lloyd unterzogen wurde und für die Herstellung folgender Erzeugnisse zugelassen ist:

Nodular Cast Iron
in accordance with the GL-Rules for Metallic Materials,
Chapter 2, Section 5.B

This approval is granted provided that all products intended to be used for the construction of ships or installations classed with Germanischer Lloyd comply in every respect with the Society's Rules and Requirements.

Die Zulassung erfolgt unter der Voraussetzung, dass alle Erzeugnisse, die zum Bau von Schiffen und Anlagen mit Klasse des Germanischen Lloyd bestimmt sind, die Vorschriften des Germanischen Lloyd in jeder Hinsicht erfüllen.

Certificate of approval No.
Zulassungsbescheinigung Nr.

WZ 2591 HH

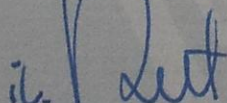
This Certificate is valid until:
Diese Bescheinigung ist gültig bis:

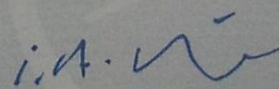
2016-05-31

Part of the approval is our letter of approval ref. no. 042553-13 of 2013-05-07.
Bestandteil der Zulassung ist das Zulassungsanschreiben, Tgb.-Nr. 042553-13 vom 2013-05-07.

Hamburg, 2013-05-07

Germanischer Lloyd


Michael Kühnel


Stefan Röhr

Ref. no.: 042553-13

Manufacturer: Fonderie Palmieri S.p.A.



List 5: Cast Iron

Grade	Key	Supply Condition (1)	max. Thickness, mm	max. Weight	Casting Method (2)	Remarks
EN GJS 400-15 acc. to EN 1563	GGG	AC/heat treated	50	300 kg	sand cast	Dimensional range: 750x900x700 mm
EN GJS 450-10 acc. to EN 1563	GGG	AC/heat treated	50	300 kg	sand cast	Dimensional range: 750x900x700 mm

Key: GG Grey cast iron GGG Nodular cast iron

(1):

AC, AF, AR = as cast, as forged, as rolled
 CR = controlled rolled
 F = ferritized
 HF = hot formed
 N = normalized

N+T = normalized + tempered
 Q+T = quenched + tempered
 SH = surface hardened
 S+Q = solution annealed + quenched
 TM = thermomechanically rolled

(2):

CC = continuous casting
 IC = ingot casting