

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

Torus Acéltermékgyártó Kft.
6100 Kiskunfélegyháza, Hungary, Csanyi út 2

is an approved manufacturer of
Pressed parts - Pressed parts manufacturer

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Products: Hot formed and cold formed bottoms for pressure vessels
with subsequent heat treatment

Details: See Particulars

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2016-06-30**

This Certificate is valid until **2019-06-29**.
DNV GL local station: **Budapest**

Approval Engineer: **Eva Junghans**

for **DNV GL**

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Thorsten Lohmann
Head of Section

Job Id: **263.11-006070-1**
Certificate No: **AMMM00000S9**

Particulars of the approval

Grade	Product	Supply Condition	Wall Thickness [mm], max.	Diameter [mm], max.
S235J2 acc. to EN 10025-2	BD-CF	N	8	Ø1600
S235J2 acc. to EN 10025-2	BD-HF	HF	30	Ø1600
S235J2 acc. to EN 10025-2	BD-HF	N	30	Ø1600
P235GH acc. to EN 10028-2	BD-CF	N	8	Ø1600
P265GH acc. to EN 10028-2	BD-CF	N	8	Ø1600
P235GH acc. to EN 10028-2	BD-HF	HF	30	Ø1600
P235GH acc. to EN 10028-2	BD-HF	N	30	Ø1600
P265GH acc. to EN 10028-2	BD-HF	HF	30	Ø1600
P265GH acc. to EN 10028-2	BD-HF	N	30	Ø1600

BD-CF: cold formed heads
HF: hot formed

BD-HF: hot formed heads
N: normalized

Remarks: This approval is succeeding WZ 1714 HH 2.