

## EU TYPE EXAMINATION CERTIFICATE - PRODUCTION TYPE

This is to certify that Lloyd's Register Nederland B.V., a Notified Body under the terms of:  
The Pressure Equipment Directive 2014/68/EU, did (in accordance with Module B of the Directive)  
undertake an EU Type Examination on the stated pressure equipment to ensure its conformity  
with the requirements of the Directive which apply to it. The equipment identified below was shown to comply.

This certificate is issued to:

**APPLICANT:** De Bruin Tankbouw B.V.  
Oostzeestraat 6  
7202 CM ZUTPHEN  
NEDERLAND

**PRODUCT DESCRIPTION:** Dimple plate  
(radius 50mm and 62,5mm; weld method P01 and P02)

**PRODUCT TYPE:** Vessel

**DESIGN STANDARD:** ASME VIII Division 1, Edition 2010 addenda 2011

The attached Schedule details the content of the Technical Documentation and Specified Standards and shall form part of this certificate.

**"This Certificate is not valid for pressure equipment, the design, ratings or operational parameters of which have been varied from the specimen tested. The manufacturer shall notify LR of any modification or changes to the equipment in order to maintain a valid certificate."**

**"This certificate is valid for ten years from the date of issue."**

Certificate No: 0343/PED/Bpt/9008395

Original Approval: 25 September 2013

Current Certificate 29 November 2021

Certificate Expiry 29 November 2031

LR NL Notified Body Number 0343

R. Chotkan on behalf of Lloyd's Register Nederland B.V.

**EU TYPE EXAMINATION CERTIFICATE  
PRODUCTION TYPE (Module B)  
De Bruin Tankbouw B.V.**

**CERTIFICATE NO: 0343/PED/B/9008395 SCHEDULE**

**EQUIPMENT DATA**

Type:	Vessel		
Chamber	Max/Min Allowable Pressure[bar]	Max/Min Allowable Temperature[°C]	Capacity[L]
Radius 50mm – spot welded – 304/304L:	8 / 0	200 / -20	500
Radius 50mm – spot welded – 316/316L:	5,7 / 0	200 / -20	500
Radius 50mm – spot welded – UNS31803:	8 / 0	200 / -20	500
Radius 50mm – arc welded – 304/304L:	8 / 0	200 / -20	500
Radius 50mm – arc welded – 316/316L:	8 / 0	200 / -20	500
Radius 50mm – arc welded – UNS31803:	8 / 0	200 / -20	500
Radius 62,5mm – spot welded – 304/304L:	7,2 / 0	200 / -20	500
Radius 62,5mm – spot welded – 316/316L:	7,5 / 0	200 / -20	500
Radius 62,5mm – spot welded – UNS31803:	8 / 0	200 / -20	500
Radius 62,5mm – arc welded – 304/304L:	8 / 0	200 / -20	500
Radius 62,5mm – arc welded – 316/316L:	8 / 0	200 / -20	500
Radius 62,5mm – arc welded – UNS31803:	8 / 0	200 / -20	500

The undermentioned documents have been reviewed for compliance with the Pressure Equipment Directive 2014/68/EU and following Design Standard(s):

ASME VIII Division 1, Edition 2010 addenda 2011

**TECHNICAL FILE CONTENTS**

Title	Plan No. / Line no.	Rev.
Burst test Dimple plate spotweld 62,5 on bottom plate, 22/01/2013	01-5667	-
Burst test Dimple plate weld 62,5 on bottom plate, 22/01/2013	01-5668	-
Burst test Dimple plate spotweld 50 on bottom plate, 22/01/2013	01-5669	-
Burst test Dimple plate weld 50 on bottom plate, 22/01/2013	01-5670	-
Particular material appraisal	Particular material appraisal job.no. 1210840	



Title	Calculation / Stress Report no.	Date	Rev.
Calculation of maximum allowable working pressure, 09/04/2013	Bursttest 9-4-2013 (excel sheet)	29/11/2021	-
Burst test calculations 1210840, 25/09/2013	Burst test calculations 1210840	29/11/2021	-

Title	Document no.	Date	Rev.
Risico Analyse drухhoudende verwarmings-/koelmantel Module 2.01	-	29/11/2021	-

## LR REPORTS

Title	Document no.	Date	Issue
Design Appraisal Document	9008395-DAD-1	29/11/2021	1
Visit Report	9005002	25-09-2013	1

Schedule Issue: 01

Date of Schedule Issue: 29 November 2021

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R. Chotkan on behalf of Lloyd's Register Nederland B.V.