

Description: 50HL FV-D1650 Fermenter – (6,300 Litres) – Jacketed in two sections with Dimple Plate.

Drawing numbers: 50HL FV-D1650 V1.0

Calculation number: Dated 24 July 2018

Designer: Yolong Industrial Co., Ltd.

Design codes: ASME Section VIII, Div 1, edition 2017

Non-destructive examination: None

Design pressure: Shell: 200kPa
Jacket: 200kPa

Test Pressure: Shell: 260kPa
Jacket: 260kPa

Design temperature range: Shell and Jacket = 40⁰C to -5⁰C

Corrosion allowance: 0mm

AS4343:2014 Hazard rating: Shell :Gas Beer and CO2 (NHG)
Shell: Hazard level value: B 12,600 MPa.L
Jacket :Fluid Glycol (VHL)
Jacket: Hazard level value: E 200 MPa.L

AS/NZS1170.2:2011 Wind: Not assessed.

AS1170.4:2007 Seismic: Not assessed.

Comments: The above item of plant has been assessed and it is deemed compliant within the constraints of the nominated design parameters based upon the information provided.

Rev 3: Updated calculations with new lug detail and changed the designer details. This certificate replaces 1808626R2.

Safety devices have not been a part of this verification.



Design Verifier: Melissa Yates

Date of verification: 24 July 2018

CMIS Signatory Signature:



Date of issue: 25 July 2018

	Accredited for compliance with ISO/IEC 17020. ACCREDITATION No.14969	AS/NZS ISO 9001:2015 Design Verification and Manufacturing Inspection of Pressure Equipment to AS 3920	
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