



CERTIFICATE OF ACCEPTANCE

This is to certify that a gasket design approval has been awarded to:

Company: James Walker
Manufacturing Location: James Walker Moorflex Ltd, John Escritt Road, Bingley
Brand: James Walker Insolion G11
Technical Qualification Result: Successful Type Acceptance Test

Based on the Shell Global Solutions Technical Qualification, the performed Type Acceptance Testing (TAT) in accordance with testing procedure SPE 85/300 (dated February 2019) and the compliance with the flange insulation set requirements according testing procedure SPE 85/201 (dated February 2017) has been accepted on April 13 - 2021 by Shell Global solutions International B.V. The successful TAT is based on:

Gasket Type	Pressure Class	Allow. Operating Temp Range	Size	Emission class Ambient	Emission class 200°C
Electrical insulation	150 # - 2500 #	-150° up to 200 °C	½" – 24"	AH	BH

Gasket material	Stainless steel 316L core with G11B (woven glass fibre reinforced epoxy) laminated to either face. Into both gasket faces concentric grooves house a spring energized PTFE seal. Spring material: UNS 30003 / AMS 5833 / AMS 5834. (NACE MR0175 / ISO 15156-3.) See page 2 for gasket summary sheet.
Shell GSI Report No: N.A. (Not Applicable)	Original acceptance: October 27, 2015
Shell GSI contract no: N.A.	Current Certificate: April 30, 2021
Certificate Revision: 0	Certificate Expiry: April 30, 2026
Issued By: Shell Global Solutions International B.V. GSNL-PTP – Bas van der Heijden Bas.vanderHeijden@shell.com	Suppliers Report Numbers: <ul style="list-style-type: none"> - Amtec 3rd Party test report, Oct.30 -2020, report No. 304 459 1/a. - James Walker inhouse test report, Sept.16 -2020, prepared by M. Coulthard. - James Walker inhouse test report, June 2- 2015, prepared by M. Coulthard.
	Suppliers Contact: Gary Briggs - gary.briggs@jameswalker.biz

Signature & Date:

Company:	James Walker
Manufacturing Location:	James Walker Moorflex Ltd, John Escritt Road, Bingley, BD16 2BS, United Kingdom
Product Description:	Tested in Accordance with:
James Walker InsoLion® G11 , electrical isolating gasket consisting of a stainless steel 316L core, with G11B (woven glass fibre reinforced epoxy) laminated to either face. Into both gasket faces concentric grooves house a phynox spring energised PTFE seal. Designed to: SPE 85/201 (dated February 2017) and SPE 85/300 (dated February 2019)	TA Testing in accordance to Shell MESC SPE 85/300 (dated February 2019) , original testing carried out by James Walker Test Laboratories in period February 2015; with reapproval 3rd party witness testing carried out by AMTEC labs October 2020.

3rd Party Witness Testing in accordance with specification Shell MESC SPE 85/300 - Crucial Tests Identified by Shell to be Witnessed

Final Testing Carried out at AMTEC Test Laboratories using the TEMES Amtec F1.Ai1 test rig; under report reference 3044591a

	Specification	Result	
- Shell Leakage test at ambient temperature (MESC SPE 85/300 – 3.3.2)	CLASS A (H)	8.2 E-9 Pa.m ³ /s/mm	PASS
- Shell Leakage test at 200°C temperature (MESC SPE 85/300 – 3.3.2)	CLASS B (H)	3.8 E-8 Pa.m ³ /s/mm	PASS
- Shell Leakage test – High Operational Tightness Test- HOTT, (MESC SPE 85/300 – 3.3.5)	<1.0 Bar	-0.1 Bar	PASS
- Shell Electrical Isolation Testing 1500V DC, Flange to Bolt- MESC SPE 85/300-3.3.15	>100MΩ	26.6GΩ	PASS
- Shell Electrical Isolation Testing 1500V DC, Flange to Flange- MESC SPE 85/300-3.3.15	>100MΩ	39.5GΩ	PASS

James Walker Internal Type Acceptance Testing in accordance with specification Shell MESC SPE 85/300

	Specification	Result	
- Shell Leakage test – Hot Blowout Test - HOBT-1, (MESC SPE 85/300 – 3.3.6)	No Blowout at 1.5 x rated pressure	<0.4 Bar pressure loss (No Blowout)	PASS
- Compression test at ambient temperature (MESC SPE 85/300 – 3.3.4: EN13555)	Gasket Characteristic Properties	Q _{smax} 162MPa	N/A
- Compression test at 200°C (MESC SPE 85/300 – 3.3.4: EN13555)		Q _{smax} 162MPa	
- Relaxation test at ambient temperature (MESC SPE 85/300 – 3.3.4: EN13555)		P _{QR} 1.0 at 52MPa	
- Relaxation test at 200°C (MESC SPE 85/300 – 3.3.4: EN13555)		P _{QR} 0.99 at 52MPa	
- Leakage test (MESC SPE 85/300 – 3.3.4: EN13555)		Q _{smin} (0.00001) 23MPa	
- Visual Examination		Minor Gramophone	PASS

Product Group Description:	Flange insulation kits, consisting of flange insulation gasket, insulating sleeves, insulating and metal washers
Pressure Class Range:	ASME Classes 150, 300, 600, 900, 1500 & 2500
Size Range:	DN 15 (1/2") to DN 600 (24")
Temperature Range	Min Cryogenic, Max 200°C
Brand Name & Model Designation:	James Walker InsoLion® G11
Reference Drawings:	CEQ2796-13

High Performance Sealing Technology

This information is based on our general experience and is given in good faith, but because of factors which may be outside our knowledge or control and which could affect the use of products, no warranty is given or implied with respect to such information.

