



Hydrostatic Burst Test Cert - ASME PCC-2

Project: **Helicoid Epoxy Sleeve Qualification Test to ASME PCC-2 (2018)**

Client: **Merit Technologies Sdn. Bhd.
No. 2, Jalan PJU 3/45,
Sunway Damansara Technology Park,
47810 Petaling Jaya, Selangor, Malaysia.**

Office: **Kuala Lumpur**

Clients Order Number: **Our quotation ref no: MY/ISL/OTH/2020/09/02 Rev. 01 dated 31 March 2021.**

Date: **15 April 2021**

Order Status: **Completed**

Inspection Dates

First: **06 April 2021**

Final: **15 April 2021**

This certificate is issued to **Merit Technologies Sdn Bhd (655607-U) at no. 2, Jalan PJU 3/45, Seksyen 12, Sunway Damansara, 47810 Petaling Jaya, Selangor, Malaysia. This is to certify that the undersigned surveyors of Lloyd's Register Malaysia Sdn Bhd, have verified the calculations and witnessed preparation, installation and subsequent hydrostatic burst test of the helicoid epoxy sleeve per ASME PCC-2, 2018.**

Testing Procedure: Hydrostatic Burst Test – Specimen Preparation Procedure_ASME PCC-2 2018 (Doc. no.: 20.20/HES/001/P1/00 Rev. 00).
Hydrostatic Burst Test – Helicoid System Installation Procedure_ASME PCC-2 (Doc. no.: 20.20/HES/001/P2/00 Rev. 00).
Hydrostatic Burst Test Procedure as per ASME PCC-2 2018 (Doc. no.: 20.20/HES/001/P3/00 Rev. 00).

Testing Coupons & Equipment's Details: 8" SCH 80 ASME SA106 Gr. B Pipe(12.7 mm Thick) – 9 Lengths(1.5M each).
(MTR no.: KYYK6564, Heat no.: J3K3137, Mill: Nippon Steel & Sumitomo Metal Corp., Japan)
Pressure Transducer(S/N: 1A00KKQUQJQ, Model: WIKA S-20, Calibrate Expiry: 7th Apr 2022, Cert no.: PSYP-21022827).
Pressure Gauge(S/N: 897074C0, Model: WIKA, Calibrate Expiry: 7th Apr 2022, Cert no.: PSYP-21022829).
Pressure Gauge(S/N: 897074BX, Model: WIKA, Calibrate Expiry: 7th Apr 2022, Cert no.: PSYP-21022830).
Pressure Gauge(S/N: 897074BL, Model: WIKA, Calibrate Expiry: 7th Apr 2022, Cert no.: PSYP-21022831).
Temperature & Pressure Controller(S/N: 20DS6666048, Model: OHKURA VM7006A0000, Calibrate Expiry: 9th Apr 2022, Cert no.: PSYP-21023515).

Test Results:

Test Specimen No.	Actual Drilled Hole Size (MM)	Max. Pressure Recorded (BARG)	Failure Criteria
P1	5.16	210.0	Leaked at subsequent pressure increment
P2	5.23	220.4	Holding at maximum test pressure
P3	5.08	220.8	Holding at maximum test pressure
P4	15.37	222.1	Holding at maximum test pressure
P5	15.29	220.9	Holding at maximum test pressure
P6	15.44	220.4	Holding at maximum test pressure
P7	31.50	179.1	Leaked at subsequent pressure increment
P8	31.20	212.6	Leaked at subsequent pressure increment
P9	30.99	192.7	Leaked at subsequent pressure increment

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Conclusions: The helicoid epoxy sleeve of above test specimens was able to withstand the hydrostatic test pressure up to above recorded burst test pressure.



TAN KWANG SAN
Surveyor to Lloyd's Register Malaysia Sdn. Bhd.

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