



DANLAID

CONTRACTING

T.Embling Hospital

Site QA

***Standard ITP - Aus Standards - Wet Area Waterproofing WP-08 TREMCO VULKEM 350R/951NF
BUILDING C&F**

JOHN HOLLAND	
Document Number	DAN-ITP-AR-CF-0006
Revision	A
Rejected	
Mr Sam Kelly - John Holland Pty Ltd Nov 29, 2024, 9:44 AM GMT+11:00	

Report summary



Name	Status	Last Activity
*Standard ITP - Aus Standards - Wet Area Waterproofing WP-08 TREMCO VULKEM 350R/951NF BUILDING C&F - page 3		No Activity na

JH (SK)

- Include sketch of waterproofing detail being used
- photos are to be included of each layer being applied
- Confirm how moisture content is being measured

*Standard ITP - Aus Standards

- Wet Area Waterproofing

WP-08 TREMCO VULKEM 350R/951NF BUILDING C&F



Add required inputs

Level:

Zone:

replace this statement. "Moisture content in the concrete must be lower than 4.5% as measured using a Tramex CME Moisture Meter" [Vulkem 350R/951NF datasheet].

2 - Construction Inspections

2.1 - Concrete moisture content check - measure moisture content of concrete substrate - note details on checklist with photo of readout	
Specification Reference - ASTM F2170, AS3740 cl 4.4.3 / GBA-SPE-AR-AS-0001	
Acceptance Criteria - Slabs require a relative humidity of less than 75%	
Test/ Inspection - Measurement	← Measurement value must be recorded.
Test/Inspection Frequency - Each wet area	What is the number of inspection frequency?
Inspection: Subcontractor - WS (I)	(EVERY 20M2)
Inspection: John Holland - PE (S)	
2.2 - Drainage installation - puddle flange installation	
Specification Reference - AS3740 fig 4.3.1 / GBA-SPE-AR-AS-0001	
Acceptance Criteria - Installed rebated in substrate, undamaged, capped to prevent ingress of debris	
Test/ Inspection - Installation and Inspection	
Test/Inspection Frequency - Each wet area	
Inspection: Subcontractor - HS (I)	
Inspection: John Holland - PE (S)	
2.3 - Substrate condition Inspection	
Specification Reference - AS3740 cl 4.4.1, JHG ETN-00006 3.4 / GBA-SPE-AR-AS-0001	
Acceptance Criteria - Clean and free of laitence/debris, holes patched	
Test/ Inspection - Inspection	
Test/Inspection Frequency - Each wet area	
Inspection: Subcontractor - WS (I)	
Inspection: John Holland - PE (S)	

2.4 - Substrate falls - measurement - note actual fall on checklist, take photos	
Specification Reference - AS3740 cl 2.3.1 / 2.3.2	
Acceptance Criteria - Falls are to the drain - min 1:80 in shower area, otherwise 1:100	
Test/ Inspection - Measurement	
Test/Inspection Frequency - Each wet area	
Inspection: Subcontractor - WS (I)	
Inspection: John Holland - PE (S)	
2.5 - Waterbars installed to edge of shower area and at door openings, waterbars installed to in-wall tap and shower rose surrounds - attach photos of correct installation.	
Specification Reference - AS3740 4.5.3, 4.8, 4.9, 4.12 / GBA-SPE-AR-AS-0001	
Acceptance Criteria - Waterbars in line with approved shop drawings and AS3740 requirements.	
Test/ Inspection - Installation and Inspection	
Test/Inspection Frequency - Each wet area	
Inspection: Subcontractor - WS (I)	
Inspection: John Holland - PE (S)	Hold point for Subcontractor: Ensure measurement taken of fall in shower.
Records & Comments - Measured fall:	CREATE HOLD POINT
2.6 - Bond breaker/fillets for Class 1/2/3 membrane installed to wall/floor junctions - attach photos of correct size	
Specification Reference - AS3740 4.5.3, 4.10 / GBA-SPE-AR-AS-0001	
Acceptance Criteria - Bond Breaker/fillet to XXXX size based on class of membrane	
Test/ Inspection - Measurement	
Test/Inspection Frequency - Each wet area	
Inspection: Subcontractor - WS (I)	
Inspection: John Holland - PE (S)	
2.7 - Subcontractor Pre-placement Check: Confirm temperature is acceptable for membrane installation	
Specification Reference - GBA-SPE-AR-AS-0001	
Acceptance Criteria - Everything ready to install	
Test/ Inspection - Review & Verify	
Test/Inspection Frequency - Each wet area	

2.7 - Subcontractor Pre-placement Check: Confirm temperature is acceptable for membrane installation	
Inspection: Subcontractor - WS (I)	
Inspection: John Holland - PE (S)	
Records & Comments - Required size:	Unclear what is suppose to be measured.
Measured size:	(PLEASE REMOVE AND REPLACE WITH (TEMPERATURE READING))
2.8 - HOLD POINT: Inspect substrate and confirm that steps above are complete and that membrane may be applied	
Specification Reference - GBA-SPE-AR-AS-0001	
Acceptance Criteria - Previous steps complete in line with the Australian Standards, specifications and ETN	
Test/ Inspection - Visual Inspection	
Test/Inspection Frequency - Each wet area	
Inspection: Subcontractor - WS (W)	
Inspection: John Holland - PE (I)	What is the temperature range that needs to be confirmed in the acceptance criteria?
Records & Comments - Applicator Names:	(DO NO APPLY SEALANT TO A SUBSTATE SURFACE IS BELOW 10C OR THE SURAFE TEMPERATUREIS ABOVE 40C)
Temperature at placement:	
2.9 - Apply primer in line with MAMS - take photograph of primer container with technical details and photo/video of application	
Specification Reference - GBA-SPE-AR-AS-0001	
Acceptance Criteria - Correct primer applied	What are the acceptable primer than can be used with this product? At least the primer used should be recorded to ensure that it is one of the recommended materials listed on the datasheet.
Test/ Inspection - Installation and Inspection	(VULKEM 171 PRIMER)
Test/Inspection Frequency - Each wet area	
Inspection: Subcontractor - WS (I)	What is MAMS?
Inspection: John Holland - PE (W)	(PLEASE CHANGE MAMS TO DATA SHEET)
2.10 - Apply membrane layers in line with MAMS and the figures in AS3740 - take photograph of membrane container with technical details and photo/video of application - note details of timing on checklist	
Specification Reference - GBA-SPE-AR-AS-0001	
Acceptance Criteria - Each layer applied in line with MAMS requirements, timing between layers in line with the MAMS	
Test/ Inspection - Installation and Inspection	
Test/Inspection Frequency - Each wet area	
Inspection: Subcontractor - WS (I)	

2.10 - Apply membrane layers in line with MAMS and the figures in AS3740 - take photograph of membrane container with technical details and photo/video of application - note details of timing on checklist	
Inspection: John Holland - PE (W)	
2.11 - HOLD POINT: - Inspection to confirm integrity of the membrane and completion of installation.	
Specification Reference - AS3740 Figures, AS3740 cl 4.5.3, 4.6 / GBA-SPE-AR-AS-0001	
Acceptance Criteria - Continuity of the membrane, no installation defects such as pinholes, measure dry film thickness, confirm vertical termination heights and details in the standard	
Test/ Inspection - Installation and Inspection	What is the minimum curing/drying times for 350R and 951NF layer for Acceptance criteria?
Test/Inspection Frequency - Each wet area	5C-12C 24-72 HOURS
Inspection: Subcontractor - WS (H)	12C-18C 6-24 HOURS
	18C-29C 4-6 HOURS
Inspection: John Holland - PE (H)	29C 4 HOURS
Records & Comments - Layer 1 time:	(1) Include notes "Pass or Fail".
Layer 2 time:	(2) Where in 2.11 is the film thickness and vertical termination heights recorded for Acceptance Criteria?
2.12 - Membrane test - Flood / Electronic Leak Detection / Seam Probe test the area in line with the AMS instruction	
Specification Reference - AS3740 cl 4.5.4 / GBA-SPE-AR-AS-0001	
Acceptance Criteria - Flood test - no leakage observed / measured over 24 hours Electronic Leak Detection Test - no points of electrical conduction identified Seam probe test - no seam failures reported	
Test/ Inspection - Test	
Test/Inspection Frequency - Each wet area	
Inspection: Subcontractor - WS (I)	Who is the "Nominated Authority"?
Inspection: John Holland - PE (W)	(SITE MANAGER)
Inspection: Nominated Authority - DC (W)	
Records & Comments - Observed setting time:	Include "Pass" or "Fail" in notes.
2.13 - 100% Witness Point: Supervise the follow-on Subcontractor(s) to ensure protection has been applied to membrane.	
Specification Reference - GBA-SPE-AR-AS-0001	
Acceptance Criteria - Each layer applied in line with MAMS requirements - dressed into puddle flange	
Test/ Inspection - Installation and Inspection	
Test/Inspection Frequency - Each wet area	
Inspection: Subcontractor - WS (W)	

	2.13 - 100% Witness Point: Supervise the follow-on Subcontractor(s) to ensure protection has been applied to membrane.
Inspection: John Holland - PE (I)	

3 - Close-Out

	3.1 - ITP close-out.
Specification Reference - GBA-SPE-AR-AS-0001	
Acceptance Criteria - All prior items of this ITP have been complied with.	
Test/Inspection Frequency - Each Lot	
Inspection: John Holland - QR (R)	What does "QR(R)" mean? Is sign off by JH required here? Where is the final sign off for subcontractor?
Records & Comments - All records loaded into the Work Lot System and Verified.	

Check all measurements are recorded and photos attached.

