

Inspection and Test Plan

QMF-17

VF Building ✓	VF Civils ✓	VF Rail ✓	VolkerHighways ✓	VolkerRail n/a	VolkerStevin ✓	VolkerLaser ✓	VolkerInfra ✓	VolkerWessels UK n/a
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Business Unit:	Volker Laser	Contract no. & name:	T32446 Manchester Central
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ITP revision no.:	REV 01	Date:	14/12/2021	ITP prepared by:	ITP reviewed by:	ITP approved by:	ITP issued by:
				Scott Thomson			
Date:	14/12/2021	Date:		Date:		Date:	

Inspection level codes: H = Hold Point, cease work until inspected and approved A = Approval N = Notification Point W = Witness: Inspection requested, work continues D = Daily inspection R10 = 10% Inspection R20 = 20% Inspection R100 = 100% Inspection

Item no.	Activity	Inspection / review type	Frequency of inspection	Inspection to be completed by	Control document / acceptance criteria / specification reference	Ref no. of checklist or other verifying / record document(s) to be completed	Inspection level - R% indicates the level of inspection to be carried out (As % of total works)					
							Volker laser	Volker laser	Client	Icorr level 2 inspector		
PRE-CONSTRUCTION ACTIVITIES												
01	Method Statement issue and approval	Document issue and review	Before the works commence	Volker laser	CDM Regulations 2015 SHW 5000	H02-02 and H06/VI RAMS	H	A	A	N/A	N/A	N/A
02	Risk Assessment issue and approval	Document issue and review	Before the works commence	VL & Client	CDM Regulations 2015 SHW 5000		H	A	A	N/A	N/A	N/A
03	Materials approval	Data sheet issue and review	Before the works commence	VL & Client	SHW 5000	QMF 37/ QMF 12	H	A	A	N/A	N/A	N/A
04	ITP briefing (Quality Pre-start)	Document Review	Before the works commence	VL	All ITP requirements briefed clarified and agreed among all involved parties	HSE-20	H	H	W	N/A	N/A	N/A
05	Start of Shift Briefing	Document / Works review	Daily	VL	H02 Risk Assessments and Method Statements	H02-05	H	H	W	N/A	N/A	N/A
06	Confirm operative competency	Check and review	Prior to works commencing	VL	Competency Certs	VL Competency Matrix	R100	R100	W	N/A	N/A	N/A
SITE WORKS ACTIVITIES												
07	Adhesion testing – compatibility	Document Issue.	Prior to works commencing				N/A	N/A	N/A	N/a	N/A	N/A
08	Delivery of materials including certs of conformity	Document Issue.	On -going throughout project	VLL& Client& Icorr L2 inspector	COC/Delivery Notes	VL QA Systems	R100	R100	W	W	N/A	N/A
09	Calibration certs (in date) of all inspection instruments made available to VLL before work commences	Document issue and equipment check.	Prior to works commencing /when equipment needs replacing.	VLL & Client & Icorr L2 inspector	Calibration Certification	VL QA Systems	R100	R100	W	W	N/A	N/A
10	(A) Sampling of Coating Materials	Laboratory analysis	When any new batches of material arrive on site	VLL & Client & Icorr L2 inspector	CG303 ISO 1513 ISO 3668 ISO2811-1	VL QA Systems Socotec COC	H	H	A	A	N/A	N/A

Issue no:	04	Date:	Nov 2013	Parent document:	Site Management Plan					
Approved for IMS:	IMS Manager			Document owner:	Quality Manager			Workspace file:	9.15.1	Page 1 of 4

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					ISO 9117-3 ISO 9117-1 ISO 3233-1 ISO 11890-1							
11	Residual contamination by fresh water washing	Visual inspection	On a daily basis during washing down.	VL & Client & Icorr L2 inspector	VL RAMS SHW 5000	VL QA Systems VL Site Diary	D	D	N/A	W	N/A	N/A
12	Surface Preparation to & SA 2 ½ (ISO 8501-1) standard to all existing bare areas of steel substrate	Visual Inspection	Minimum of once per blasting shift	VLL & HE Icorr L2 inspector	VI RAMS SHW 5000 ISO 8501-1	VI QA Systems	H	D	N	A	N/A	N/A
13	Surface preparation to SA1 (ISO 8501-1) standard to all existing coatings	Visual Inspection	Minimum of once per blasting shift	VL & Client & Icorr L2 inspector	VI RAMS SHW 5000	VL QA System	H	D	W	A	N/A	N/A
14	Send Sample of spent abrasive away for WAC analysis to determine the waste criteria.	Laboratory Test	Once at the early stages of blast cleaning.	VLL & Client & Icorr L2 inspector	VL RAMS	Laboratory Analysis Documentation	D	D	N	W	N/A	N/A
15	Areas of bare metal that are impracticable for blast cleaning will be prepared to ST3(ISO 8501-1) standard	Visual Inspection	Minimum of once per blasting shift	VL & Client & Icorr L2 inspector	VL Rams ISO 8501-1	VI QA System	D	D	N	A	N/A	N/A
16	Surface Profile Testing using the replica tape method to (ISO 8503-5) standard a nominal 75-100 microns required parameter.	Quantative Test	2 no tests every blasting shift.	VLL & Client & ICorr L2 inspector	VL RAMS SHW 5000 ISO 8503-5	VL QA Systems	D	D	W	A	N/A	N/A
17	Steel Dressing to (ISO 8501-3) P2 standard (if applicable) to any excessive pitting and sharp edges.	Visual Inspection	Monitor intermittently during the works	VLL & Client & ICorr L2 inspector	VL RAMS SHW 5000 ISO 8501-1	VL QA Systems	D	D	W	A	N/A	N/A
18	Dust testing in accordance with (ISO 8502-3) standard a minimum of class 2 standard required	Quantative Test	Minimum of once every other blasting shift	VLL & Client & ICorr L2 inspector	VL RAMS SHW 5000 ISO 8502-3	VL QA Systems	D	D	W	A	N/A	N/A
19	(B) Sampling of Primer coat Jotamastic 90 aluminium B15	Quantative test	Once every new batch of coating supplied by the manufacturer, carried out by the 3rd party inspector.	VLL & Client & Icorr L2 inspector	SHW 5000 Product TDS VL – RAMS	VL QA Systems	H	H	A	A	N/A	N/A

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20	Apply Primer coat of Jotamastic 90 B15 aluminium primer coat to a nominal of 125 microns DFT to prepared bare areas of Steel Substrate.	Visual Inspection/DFT Check.	Once Primer coat has cured sufficiently.	VLL & Client & ICorr I2 inspector	VL RAMS SHW 5000 XM 92-M24 ISO 8502-4 ISO 19840 Product TDS	VL QA Systems	D	D	W	D	N/A	N/A					
21	(B) Sampling of Intermediate/Stripe coat Jotamastic 90 B15	Quantative test	Once every new batch of coating supplied by the manufacturer,	VLL & Client & ICorr L2 inspector	SHW 5000 Product TDS VL – RAMS	VL QA Systems	H	H	A	A	N/A	N/A					
22	Application of Jotamastic 90 B15 stripe coat via brush to all insufficient areas i.e. nuts, stiffeners and rivets.	Visual Inspection	Prior to Intermediate coat application.	VLL & Client & Icorr L2 inspector	VL RAMS SHW 5000 XM 92-M24 ISO 8502-4 Product TDS	VL QA Systems	D	D	N/A	D	N/A	N/A					
23	Regular WFT check when applying intermediate coat over existing coatings to gauge the thickness of material applied.	Visual Inspection of WFT combs	During Intermediate coat application.	VLL & Icorr L2 inspector	VI RAMS Product TDS	VL QA Systems/FOR-69	D	D	N/A	D	N/A	N/A					
24	Application of Jotamastic 90 B15intermediate coat airless spray to a nominal 125 microns DFT	Visual Inspection/DFT Check.	Prior to Topcoat application.	VLL & Client & Icorr L2 inspector	VL RAMS SHW 5000 XM 92-M24 ISO 8502-4 ISO 19840 Product TDS	VI QA Systems	D	D	N/A	D	N/A	N/A					
25	(B) Sampling of Topcoat	Quantative test	Once every new batch of coating supplied by the manufacturer.	VLL & Client & ICorr L2 inspector	SHW 5000 Product TDS VL – RAMS-	VL QA Systems	H	H	A	A	N/A	N/A					
26	Application of Jotun Hardtop final topcoat to min of 70 microns DFT colours as per the HAP1 Form.	Visual Inspection/DFT Check.	Once the intermediate coat has cured	VLL & client & ICorr L2 inspector	VL RAMS SHW 5000 XM 92-M24 ISO 8502-4 ISO 19840 Product TDS	VL QA Systems	D	D	W	D	N/A	N/A					
27	Final DFT/Visual inspection and job completion sign off/Hand back	Visual Inspection/DFT Check.	Once the final top coat has cured and evidence of the required microns DFT witnessed	VLL & Client ICorr L2 inspector	VL RAMS SHW 5000 XM 92-M24 ISO 8502-4 ISO 19840	VL QA Systems	D	D	W	D	N/A	N/A					

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POST CONSTRUCTION WORKS ACTIVITIES												
28	Non-Conformances	Document review	Each NCR	VL	VL Internal NCR procedure	QMF-03	H	H	W	W	N/A	N/A
29	As-built Drawings	Record Documents	Issued to VL	VL	Specification Appendix – Site records	Reports, drawings and photographs	H	A	A	A	A	A