

ITP Inspection and Test Plan Template

Project Title: WDC Fluoridation – Ruddells WTP		Project No: J2028 (CON23011)		Procedure No:	
Description of Activity: Structural Steel				ITP No.: 003	
Location of Inspection / Testing: Millbridge Engineering/Site			ITP Approved by (Bellcon) Name: Stephen A Date: 08/02/2024		
ITP Prepared by Name: William Carlson		Date: 30/01/2024		ITP Approved by (Client) Name: Whangarei District Council Date:	

ID No	Sequence of Activity	Type of inspect / Test and Frequency	Acceptance Criteria	Inspection Responsibility				Verification Records of Inspection(s) / Test(s)
				BCL		Client	Date	
1.0	Documentation							
1a	Construction Drawings	All drawings are for construction and latest revision.	IFC Drawings	I		S		Drawing Register
1b	Shop Drawings	All drawings are for construction and latest revision. (hold Point)	AISC Detailing for Steel Construction	H		A		Drawing Register
2.0	Manufacturing							
2a	Structural Steel	Confirm structural steel grade is correct	Sec. 19 4.15.1.1 Table 1. Materials	D		R		Manufacturers Mill Certificates



ID No	Sequence of Activity	Type of inspect / Test and Frequency	Acceptance Criteria	Inspection Responsibility				Verification Records of Inspection(s) / Test(s)
				BCL		Client	Date	
2b	Nuts, Bolts, & Washers	Confirm nuts, bolt and washer materials are hot dip galvanised Approved stainless steel components must be Grade A4 (Austenitic 316) strength 70	AS 1214 IFC Shop Drawings Bill of Materials	D		R		Manufacturers Mill Certificates
3.0	Delivery, Storage & Handling							
3a	Delivery	Check structural steel is undamaged; not misshapen, no surface damage, free from contaminants etc. on delivery	NZS 3404	D		R		Delivery Dockets Photos
4.0	Welding							
4a	Nominate Inspector	Employ approved independent Welding Inspector. Submit two weeks before fabrication	CBIP	S		A		N/A
4b	Welder Qualifications	Ensure welders are competent and accredited to carry out welding activity prior to construction.	ASME IX	I		I		Welder Qualification Records
4c	Weld Procedure	Ensure procedure is Code compliant to weld specification of applicable work being done All welds to be category GP unless category SP nominated	ASME IX	A		I		Welding Procedure
4d	Weld Inspection (Visual)	The extent of Non-Destructive examination listed in Sec. 19 4.15.2.4	ASME IX	I		I		Inspector report
5.0	Corrosion Protection							



ID No	Sequence of Activity	Type of inspect / Test and Frequency	Acceptance Criteria	Inspection Responsibility				Verification Records of Inspection(s) / Test(s)
				BCL		Client	Date	
5a	Nominate Inspector	Employ approved independent Painting Inspector	CBIP	D		R		N/A
5b	Preparation	Thoroughly clean all surfaces of oil and grease with turpentine, not kerosene. Visual Inspection	Sa 2½ in S1S 055900	D		R		Galvanising QA Package
5c	Galvanising	Apply Zinc coating by hot dip process to give coating weight of not less than 600g/m²	AS/NZS 4680	D		R		Galvanising QA Package
5d	Galvanising Inspection	Inspect for defects, misses, etc. Dry film thickness measurements and demonstration that film build up has been achieved	AS3894	D		R		Galvanising QA Package Painting Inspector Report
6.0	Grouting							
6a	Grouting Mix	50MPa grout to be used, mixing as per the manufacturer spec	NZS 3404	D		R		Delivery docket
7.0	As-builts							
7a	Redline Drawings	Redline Structural Drawings Sets post construction	N/A	D		R		As-Builts

Revision Status of ITP				Inspection Responsibility Legend			Records Legend
Rev. No:	Revision 1:	Revision 2:	Revision 3:	A: Approve	H: Hold Point	T: Test	ITR: Inspection and Test Report HPR: Hold Point Release form
Rev. (ID No's)				D: Document	R: Random	V: Visual	
Date:				I: Inspection	S: Submit	W: Witness	



Approved by:				S.Con: Subcontractor		Cons: Consultant	
--------------	--	--	--	----------------------	--	------------------	--



Signature Verification Record

Name	Signature	Position / Title	Company