

**PARTICULAR SPECIFICATION**

**APPENDIX O**

**SCHEDULE OF WARRANTIES**

**TABLE O.1: LIST OF WARRANTIES FOR CIVIL & STRUCTURAL AND SIGNAGE WORKS TO BE SUBMITTED BY CONTRACTOR**

<b>M&amp;W SPEC. CLAUSE NO</b>	<b>ITEM</b>	<b>PERIOD</b>	<b>WARRANTY BY WHOM</b>	<b>AGAINST</b>
10.8.3	Reflective Sheeting and Vinyl Films	3 years (Type I and II)  7 years (Type III to VI)  7 years (Type VII to IX)	Contractor and Manufacturer	Quality and performance of the materials in respect of colour, fungus resistance, adhesion, retroreflectivity and other defects.
10.8.4	Transparent Process Inks	3 years (Type I and II)  7 years (Type III to VI)  7 years (Type VII to IX)	Contractor and Manufacturer	Quality and performance of the materials in respect of reflectivity, colour, cracking, peeling and other defects.
11.9.5	Protective Coatings for Concrete Surfaces	10 years	Contractor and Applicator/Supplier	Peeling, blemish, growth and all defects and any malfunction

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<b>M&amp;W SPEC. CLAUSE NO</b>	<b>ITEM</b>	<b>PERIOD</b>	<b>WARRANTY BY WHOM</b>	<b>AGAINST</b>
14.7 17.6.5 & 17.7.9	Watertightness for Structures	10 years	Contractor and Supplier / Applicator	Watertightness of the underground structures including the waterproofing systems
15.3.4	Movement Joints	10 years	Contractor and Manufacturer	All defects and any malfunctioning
18.9.1.12 (Rev A1)	Complete Pump Unit	1.5 years	Contractor and Manufacturer	All defects and any malfunctioning
18.12.1 (Rev A1)	Lifting System	1.5 years	Contractor and Manufacturer	All defects and any malfunctioning

**TABLE O.2: LIST OF ADDITIONAL WARRANTIES FOR WALKING & CYCLING FACILITY WORKS TO BE SUBMITTED BY CONTRACTOR**

<b>M&amp;W SPEC. CLAUSE NO</b>	<b>ITEM</b>	<b>PERIOD</b>	<b>WARRANTY BY WHOM</b>	<b>AGAINST</b>
M&W Specification for Civil & Structural Works Section 10.8.3	Reflective Sheeting and Vinyl Films	3 years (Type I & II)  7 years (Type III to VI)  7 years (Type VII to IX)	Contractor & Manufacturer	Quality and performance of the material, reflectivity, colour fungus resistance adhesion, cracking, peeling and other defects
M&W Specification for Civil & Structural Works Section 10.8.4	Transparent Process Inks	3 years (Type I & II)  7 years (Type III to VI)  7 years (Type VII to IX)	Contractor & Manufacturer	Quality and performance of the material for reflectivity, colour, cracking, peeling and other defects
M&W Specification for Civil & Structural Works Section 15.2.2	All Bearings	10 years	Contractor & Manufacturer	All defects and any malfunctioning

<b>M&amp;W SPEC. CLAUSE NO</b>	<b>ITEM</b>	<b>PERIOD</b>	<b>WARRANTY BY WHOM</b>	<b>AGAINST</b>
M&W Specification for Architectural Works Section 200	GRC Panels and decorative features	10 years	Contractor and Specialist Contractor / Supplier	Cracks, warping, disintegration, surface blemishes, discolouration and other defects in materials and workmanship
M&W Specification for Architectural Works Section 340	Stainless steel balustrades, handrails, arm rests, railings, trims and cappings	15 years	Contractor and Specialist Contractor / Supplier	Rust, surface blemish, cracks, scaling, loosening and other defects in materials and workmanship
Electrical Technical Specification	LED Luminaires	5 years	Contractor/ Specialist Sub-contractor/ Supplier	Dust & water Penetration, lamp faulty, cracking and other defects in materials and workmanship
M&W Specification (Civil & Structural) Chapter 12 – Structural Steelworks	Hot-Dipped Galvanising /Zinc Coating	10 years	Contractor, Supplier & Applicator	Corrosion, rust, and other defects
M & W Specification for Architectural Works Section 500	Anti-stick paint	5 years / 2 years (anti-adhesion property of top coat)	Contractor and Specialist Contractor / Supplier	Corrosion and peeling off / anti-adhesion property of top coat

<b>M&amp;W SPEC. CLAUSE NO</b>	<b>ITEM</b>	<b>PERIOD</b>	<b>WARRANTY BY WHOM</b>	<b>AGAINST</b>
M & W Specification for Architectural Works  Section 500	Colour Coating for Give-way to Bus Zone	3 years	Contractor and Specialist Contractor / Supplier	Quality and performance
Appendix AN to Particular Specification	Coloured High Strength Coating System	5 years	Contractor and Specialist Contractor / Supplier	Quality and performance
M & W Specification for Architectural Works  Section 500	Double Coated Acrylic Foam Tape	7 years	Contractor and Specialist Contractor / Supplier	Quality and performance
M & W Specification for Architectural Works  Section 500	Flexible Post	3 years for post and 5 years for the reflective sheeting	Contractor and Specialist Contractor / Supplier	Quality and Performance
M & W Specification for Architectural Works  Section 500	Tiling, Plastering & Paving Works	5 years	Contractor and Specialist Contractor / Supplier	Quality and performance of the material, colour, fungus resistance, discolouration, surface blemish, cracks, scaling and other defects in design, materials and workmanship

Note:

- 1) Clause No. referred to in Table O.1 above refer to clauses in the Materials & Workmanship Specification for Civil and Structural Works Rev A2, unless otherwise stated.
- 2) The Contractor shall refer to Architectural M&W Specification on the provision of warranties for Architectural works/items.
- 3) Commencement of warranty: Date of Substantial Completion of the whole of the Works.