

Specification (Measurement)

**Transport and Main Roads Specifications
MRS301 Fabrication and Construction of Floating
Walkways**

July 2017

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1 Introduction

This Specification applies to design and construction of floating walkways.

This Specification shall be read in conjunction with MRS01 *Introduction to Specifications* and other Specifications as appropriate.

This Specification forms part of the Transport and Main Roads Specifications Manual.

2 Measurement of work

2.1 Standard Work Items

In accordance with the provisions of Clause 2 of MRS01 *Introduction to Specifications*, the Standard Work Items incorporated in this Specification are listed in Table 2.1.

Table 2.1 Standard Work Items

Standard Item No.	Description	Unit of measurement
Floating Walkways		
77201	Detailed design of floating walkway	lump sum
77202	Fabricate and supply (ex-factory) all floating walkway components (excluding piles and lighting)	lump sum
77203	Supply and drive piles (including establishment of piling rig)	lump sum
77204	Supply and install solar lighting	lump sum
77205	Transport (ex-factory) and install all floating walkway components	lump sum

2.2 Work Operations

Item 77201 Detailed design of floating walkway

Work Operations incorporated in this item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) Preparation and delivery of the Design Deliverables defined in Clause 8 of *Design Criteria for Floating Walkways and pontoons*, and
- c) Amendments required to meet Design Criteria or Design Deliverables.

Item 77202 Fabricate and supply (ex-factory) all floating walkway components (excluding piles and lighting)

Work Operations incorporated in this item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) Supply of all materials and fabrication of flotation modules, deck furniture and pile cages
- c) Work Operations for supply, testing and placement of concrete in accordance with MRTS70 *Concrete* and *Design Criteria for Floating Walkways and Pontoons*, and
- d) Work Operations for fabrication of aluminium components in accordance with MRTS79 *Fabrication of Aluminium Components* and *Design Criteria for Floating Walkways and Pontoons*.

Item 77203 Supply and drive piles (including establishment of piling rig)

Work Operations incorporated in this item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of all piles, sleeves and pile caps
- c) painting of piles
- d) establishment and disestablishment of piling rigs
- e) establishment and disestablishment of specialist piling plant including augers, rock breakers and other plant to prebore or drive piles for site specific geotechnical conditions
- f) handling, pitching and driving piles and sleeves to nominated depth
- g) pile cutoff to design height, and
- h) fitting steel pile endplates, sleeve endplates, retroreflective tape and pile caps.

Item 77204 Supply and install solar lighting

Work Operations incorporated in this item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of all lights
- c) fabrication as required, and
- d) installation.

Item 77205 Transport (ex-factory) and install all floating walkway components

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) transport of all floating walkway components from factory to worksite, and
- c) installation of floating walkway components.

2.3 Calculation of quantities

2.3.1 Item 77201 Detailed design of floating walkway

Detailed design of floating walkway shall be paid as a single item when the design has been approved by the Superintendent.

2.3.2 Item 77202 Fabricate and supply (ex-factory) all floating walkway components (excluding piles and lighting)

Fabricated floating walkway modules but not onsite can be claimed at 100 per cent of the completed pro rata length subject to the additional security requirements.

2.3.3 Item 77203 Supply and drive piles (including establishment of piling rig)

This Item shall be paid as a single Item when all of the Work Operations have been completed.

2.3.4 Item 77204 Supply and install solar lighting

This Item shall be paid as a single Item when all of the Work Operations have been completed.

2.3.5 Item 77205 Transport (ex-factory) and install all floating walkway components

This Item shall be paid as a single Item when all of the Work Operations have been completed.

