

Superseded

Specification (Measurement)

**Transport and Main Roads Specifications
MRS87 Supply of Timber Bridge Materials and
Components**

June 2009

Superseded

Copyright



<http://creativecommons.org/licenses/by/3.0/au/>

© State of Queensland (Department of Transport and Main Roads) 2014

Feedback: Please send your feedback regarding this document to: mr.techdocs@tmr.qld.gov.au

Contents

1	Introduction	1
2	Measurement of work	1
2.1	Standard Work Items	1
2.2	Work operations.....	3
2.3	Measurement of work	4

Superseded

1 Introduction

This specification applies to the supply of materials and components used in the construction and/or maintenance of bridges built either wholly or partially with timber materials.

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 covered by this specification are listed in Table 2.1.

Table 2.1 – Standard Work Items

Standard Item No.	Description	Unit of Measurement
7001	Hardwood kerbs, supply on Site, ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7002	Plywood kerbs, supply on Site, ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7003	Hardwood decking, supply on Site, ([thickness] mm thick), [length] metres long.	m ²
7004	Plywood deck sheets, supply on Site, ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7005	Plywood deck sheets including coating, supply on Site, ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7006	Hardwood spiking planks, supply on Site, ([width] mm wide, [thickness] mm thick).	m
7007	Hardwood end spiking plank, supply on Site, ([width] mm wide, [thickness] mm thick).	m
7008	Hardwood girders, round, supply on Site, ([diameter] mm diameter), [length] metres long.	each
7009	Hardwood girders, octagonal, supply on Site, ([width] mm wide), [length] metres long.	each
7010	Hardwood corbels, round, supply on Site, ([diameter] mm diameter), [length] metres long.	each
7011	Hardwood corbels, octagonal, supply on Site ([width] mm wide), [length] metres long.	each
7012	Hardwood headstocks, supply on Site, ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7013	Hardwood piles, supply on Site, ([diameter] mm diameter), [length] metres long.	each
7014	Hardwood wales and braces, supply on Site, ([width] mm wide, [thickness] mm thick).	m
7015	Hardwood sill, round, supply on Site, ([diameter] mm diameter), [length] metres long.	each

Standard Item No.	Description	Unit of Measurement
7016	Hardwood sill, rectangular, supply on Site, ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7017	Hardwood struts and fenders, round, supply on Site, ([diameter] mm diameter), [length] metres long.	each
7018	Hardwood struts and fenders, rectangular, supply on Site, ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7019	Hardwood distributor planks, supply on Site, ([width] mm wide, [thickness] mm thick).	m
7020	Hardwood running planks, supply on Site, ([width] mm wide, [thickness] mm thick).	m
7021	Hardwood ballast boards, supply on Site, ([width] mm wide, [thickness] mm thick).	m
7022	Hardwood cover boards, supply on Site, ([width] mm wide, [thickness] mm thick).	m
7023	Hardwood backing slabs, supply on Site, ([width] mm wide, [thickness] mm thick).	m
7050	Steel bridge decking, supply on Site, ([depth] mm deep, [thickness] mm thick), [length] metres long.	m ²
7051	Steel kerb, supply on Site, ([depth] mm deep, [thickness] mm thick), [length] metres long.	each
7080	Precast prestressed concrete bridge decking, supply on Site, ([width] mm wide, [thickness] mm thick), [length] metres long, [hand] (clockwise/anticlockwise skew/square delete as appropriate), [degrees] degrees skew.	each
7101	Hardwood kerbs, transport to Site, ex Works/Stockpile [location], ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7102	Plywood kerbs, transport to Site, ex Works/Stockpile [location], ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7103	Hardwood decking, transport to Site, ex Works/Stockpile [location], ([thickness] mm thick), [length] metres long.	m ²
7104	Plywood deck sheets, transport to Site, ex Works/Stockpile [location], ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7105	Plywood deck sheets including coating, transport to Site, ex Works/Stockpile [location], ([width] mm wide, [thickness] mm thick), [length] metres long.	each
7106	Hardwood spiking planks, transport to Site, ex Works/Stockpile [location], ([width] mm wide, [thickness] mm thick).	m
7107	Hardwood end spiking planks, transport to Site, ex Works/Stockpile [location], ([width] mm wide, [thickness] mm thick).	m
7108	Hardwood girders, round, transport to Site, ex Works/Stockpile [location], ([diameter] mm diameter), [length] metres long.	each
7109	Hardwood girders, octagonal, transport to Site, ex Works/Stockpile [location], ([width] mm wide), [length] metres long.	each
7110	Hardwood corbels, round, transport to Site, ex Works/Stockpile [location], ([diameter] mm diameter), [length] metres long.	each

Standard Item No.	Description	Unit of Measurement
7111	Hardwood corbels, octagonal, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>width</i>] mm wide), [<i>length</i>] metres long.	each
7112	Hardwood headstocks, transport to Site, ex Works/Stockpile [<i>location</i>] ([<i>width</i>] mm wide, [<i>thickness</i>] mm thick), [<i>length</i>] metres long.	each
7113	Hardwood piles, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>diameter</i>] mm), [<i>length</i>] metres long.	each
7114	Hardwood wales and braces, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>width</i>] mm wide, [<i>thickness</i>] mm thick).	m
7115	Hardwood sill, round, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>diameter</i>] mm diameter), [<i>length</i>] metres long.	each
7116	Hardwood sill, rectangular, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>width</i>] mm wide, [<i>thickness</i>] mm thick), [<i>length</i>] metres long.	each
7117	Hardwood struts and fenders, round, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>diameter</i>] mm diameter), [<i>length</i>] metres long.	each
7118	Hardwood struts and fenders, rectangular, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>width</i>] mm wide, [<i>thickness</i>] mm thick), [<i>length</i>] metres long.	each
7119	Hardwood distributor planks, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>width</i>] mm wide, [<i>thickness</i>] mm thick).	m
7120	Hardwood running planks, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>width</i>] mm wide, [<i>thickness</i>] mm thick).	m
7121	Hardwood ballast boards, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>width</i>] mm wide, [<i>thickness</i>] mm thick).	m
7122	Hardwood cover boards, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>width</i>] mm wide, [<i>thickness</i>] mm thick).	m
7123	Hardwood backing slabs, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>width</i>] mm wide, [<i>thickness</i>] mm thick).	m
7150	Steel bridge decking, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>depth</i>] mm deep, [<i>thickness</i>] mm thick), [<i>length</i>] metres long.	m ²
7151	Steel kerb, transport to Site, ex Works/Stockpile [<i>location</i>], ([<i>depth</i>] mm deep, [<i>thickness</i>] mm thick), [<i>length</i>] metres long.	each
7180	Precast prestressed concrete bridge decking, transport to Site ex Works/Stockpile [<i>location</i>], ([<i>width</i>] mm wide, [<i>thickness</i>] mm thick), [<i>length</i>] metres long, [<i>hand</i>] clockwise/anticlockwise skew/square (delete as appropriate), [<i>degrees</i>] degrees skew.	each
7190	Storage of timber bridge materials and components at Site.	lump sum

2.2 Work operations

Items 7001 to 7080

These items are used only where materials and components are supplied by the Contractor.

Work Operations incorporated in the above items include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*

- b) supply of construction materials
- c) transport to Site
- d) preparation of Site storage area, and
- e) unloading at Site.

Items 7101 to 7180

These items are used only where components are supplied by the Principal for collection by the Contractor from the location nominated in the Principal Supplied Materials List.

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) taking delivery of the materials and components at the location nominated in the schedules, including loading where so required
- c) transport to Site
- d) preparation of Site storage area, and
- e) unloading at Site.

Item 7190

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS 01 *Introduction to Specifications*, and
- b) stacking of materials and components at Site to the requirements of this specification.

2.3 Measurement of work

The measurement of steel bridge decking shall be the plane (not developed) length along the centreline of the bridge multiplied by the overall deck width as shown on the Drawings.

Adequate allowance shall be made by the Contractor for additional quantities in order to allow for overlap of sheets.

Superseded