



Roundslings—Synthetic fibre

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-

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard[®]

Roundslings—Synthetic fibre

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-025, Lifting Tackle, to supersede AS 4497.1 *Roundslings—Synthetic fibre, Part 1: Product specification* and AS 4497.2 *Roundslings—Synthetic fibre, Part 2: Care and use*.

The objective of this Standard is to combine the two previously separate Parts for manufacturing and safe use into a single document.

This revision also incorporates the following changes:

- (a) New figures throughout the Standard.
- (b) New clauses on the following:
 - (i) Competent persons.
 - (ii) Effective lengths.
 - (iii) Protective pads and corners.
 - (iv) End fittings and interfacing components.
 - (v) Markings.
 - (vi) Working load limit tags/labels.
 - (vii) Colour and stripes.
 - (viii) Materials including high modulus polyethylene (HMPE).
 - (ix) Cut protection.
 - (x) Engineered lifts.
 - (xi) Connecting to the loads.
- (c) New Table 6, Working load limits, storage, inspection and discard.
- (d) Two new appendices, Appendix D, *Visual inspection checklist* (normative), and Appendix E, *Symmetry of loading* (informative).

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendices to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard
Roundslings—Synthetic fibre

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE AND APPLICATION

1.1.1 Scope

This Standard specifies requirements and recommendations for manufacture, care and use of roundslings made of synthetic fibre, which may include end fittings that are intended for lifting purposes.

This Standard does not address the use of roundslings for the lifting of personnel.

1.1.2 Application

Section 2 specifies requirements and recommendations to manufacturers and importers on the design and manufacture of new roundslings.

NOTE: This Section does not cover repairs to roundslings.

Section 3 provides the test methods for verification of product conformity.

Section 4 provides requirements and recommendations on the selection, care and use of roundslings that are aimed at all parties including end users and inspectors of roundslings.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

NOTE: See also Appendix A for a full list of Standards for components used in lifting systems.

AS	
2193	Calibration and classification of force-measuring systems
2741	Shackles
3585	End fittings for synthetic flat-webbing and round slings
3776	Lifting components for Grade T(80) and V(100) chain slings
3777	Shank hooks and large eye hooks—Maximum 60 t
3850	Preabricated concrete elements (series)
4991	Lifting devices
AS 1577 IEC	
61705	General requirements for the competence of testing and calibration laboratories

1.3 DEFINITIONS

For the purpose of this Standard, the definitions below apply.

1.3.1 Choke hitch

The hitch or reeved sling where one end of the sling is passed around the load and through the other eye and placed onto the hook—the sling then bites down onto the load.