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CEYLON STANDARD 93 : 1970

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**CEYLON STANDARD METHOD FOR SIMPLE BEND
TESTING OF STEEL SHEET AND STRIP**

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BUREAU OF CEYLON STANDARDS

CEYLON STANDARD METHOD FOR SIMPLE BEND TESTING OF STEEL SHEET AND STRIP

C. S. 93 : 1970

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Ceylon Standards are subject to periodical revision in order to accommodate the progress made by industry. Suggestions for improvement will be recorded and brought to the notice of the Committees to which the revisions are entrusted.

This Standard does not purport to include all the necessary provisions of a contract.

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CEYLON STANDARD METHOD FOR SIMPLE BEND TESTING OF STEEL SHEET AND STRIP

FOREWORD

This Ceylon Standard has been prepared by the Drafting Committee on Steel. It was approved by the Civil Engineering Divisional Committee of the Bureau of Ceylon Standards and was authorised for adoption and publication by the Council of the Bureau on 14th August 1970.

This is one of a series of Ceylon Standards on methods of bend test for steel products. Other standards in the series are as follows:-

- C. S. 13 Method of bend test for steel products other than sheet, strip, wire and tube.
- C. S. 94 Method for reverse bend testing of steel sheet and strip less than 3mm thick.
- C. S. Method for reverse bend testing of steel wire.*

This standard is based on ISO/R 87 - 1959

1. SCOPE

This standard prescribes the method of conducting simple bend test on steel sheet and strip less than 3mm (0.12 in) thick.

2. PRINCIPLE OF TEST

The test consists in submitting a straight test piece to plastic deformation by bending without reversing the direction of flexure during the test. The bending is carried out until one leg of the test piece makes, under load, a specified angle α with the extension of the other (see Fig. 2) The axes of the two legs of the test piece remain in a plane perpendicular to the axis of bending. In the case of 180° bend, the two lateral surface may, depending on the requirements of the specification, lie flat against each other or be parallel at a specified distance, an intermediate piece may be used for the control of this distance (see Fig. 4).

* under preparation.