

SRI LANKA STANDARD 1256 : PART 22 : 2016
ISO 2409 : 2013
UDC 667.6

**METHOD OF TEST FOR
PAINTS AND VARNISHES
PART 22 : CROSS CUT TEST
(SECOND REVISION)**

SRI LANKA STANDARDS INSTITUTION

Sri Lanka Standard
METHOD OF TEST FOR PAINTS AND VARNISHES
PART 22 : CROSS CUT TEST
(SECOND REVISION)

SLS 1256 : Part 22 : 2016
ISO 2409 : 2013

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Sri Lanka Standard
METHOD OF TEST FOR PAINTS AND VARNISHES
PART 22 : CROSS CUT TEST
(SECOND REVISION)

NATIONAL FOREWORD

This Sri Lanka Standard was approved by the Sectoral Committee on Chemical and Polymer Technology and authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 2016-10-27.

This Sri Lanka Standard was published in 2005 and first revised in 2008 to adopt ISO 2409 : 2007. The International Standard ISO 2409: 2007 has been technically revised as ISO 2409 : 2013 Paints and varnishes - Cross cut test. The text of this International Standard ISO 2409 : 2013 has been accepted to adopt as the second revision of the **SLS 1256: Part 22 : 2016**.

This Sri Lanka Standard is identical with ISO 2409: 2013 Paints and varnishes – Cross cut test published by the International Organization for Standardization (ISO).

TERMINOLOGY AND CONVENTIONS

The text of the International Standard has been accepted as suitable for publication, without deviation, as a Sri Lanka Standard. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards. Attention is therefore drawn to the following:

- a) Wherever the words “International Standard” appear referring to a particular Standards they should be interpreted as “Sri Lanka Standard”.
- b) The comma has been used throughout as a decimal marker. In Sri Lanka Standards it is the current practice to use the full point at the base as the decimal marker.
- c) Wherever page numbers are quoted, they are ISO page numbers.

Cross References

International Standard

Corresponding Sri Lanka Standard

ISO 1513, Paints and varnishes — Examination and preparation of test samples

No corresponding Sri Lanka Standard

ISO 1514, Paints and varnishes — Standard panels for testing

No corresponding Sri Lanka Standard

ISO 2808, Paints and varnishes — Determination of film thickness

SLS 1256 : Part 15 Determination of film thickness

ISO 13076, Paints and varnishes — Lighting and procedure for visual assessments of coatings

No corresponding Sri Lanka Standard

ISO 15528, Paints, varnishes and raw materials for paints and varnishes — Sampling

SLS 523 Methods of sampling for paints, varnishes and raw materials for paints and varnishes

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INTERNATIONAL
STANDARD

SLS 1256-22:2016

ISO
2409

Fourth edition
2013-02-15

Paints and varnishes — Cross-cut test

Peintures et vernis — Essai de quadrillage



Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 2409 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This fourth edition cancels and replaces the third edition (ISO 2409:2007), which has been technically revised. The main changes are as follows:

- a) the description of suitable methods for removal of loose paint have been transferred to an informative annex as examples and, for the method using adhesive tape, the adhesive strength of the tape is no longer specified;
- b) the single-blade cutting tool originally used in the first edition (1972) of this International Standard has been re-introduced;
- c) a cutting tool used with automatic cross-cut apparatus has also been specified;
- d) the pictorial standard for classification 2 has been replaced by one originally used in the first edition (1972) and the second edition (1992) of this International Standard;
- e) plastics have been added as an example of a hard substrate in [6.1.4](#);
- f) a designation code has been introduced to indicate the test result;
- g) the supplementary test conditions previously in [Clause 7](#) have been integrated in the test report;
- h) a note has been added to Subclause [3.2.1](#) that the apparatus (manual or motor-driven) and the type of cutting tool used have an influence on the test result.

Paints and varnishes — Cross-cut test

1 Scope

This International Standard specifies a test method for assessing the resistance of paint coatings to separation from substrates when a right-angle lattice pattern is cut into the coating, penetrating through to the substrate. The property determined by this empirical test procedure depends, among other factors, on the adhesion of the coating to either the preceding coat or the substrate. This procedure is not to be regarded, however, as a means of measuring adhesion.

Where a measurement of adhesion is required, the method described in ISO 4624[1] may be used.

NOTE 1 Although the test is primarily intended for use in the laboratory, the test is also suitable for field testing.

The method described may be used either as a pass/fail test or, where circumstances are appropriate, as a six-step classification test. When applied to a multi-coat system, assessment of the resistance to separation of individual layers of the coating from each other can be made.

The test can be carried out on finished objects and/or on specially prepared test specimens.

Although the method is applicable to paint on hard (e.g. metal) and soft (e.g. wood and plaster) substrates, these different substrates need a different test procedure (see [Clause 6](#)).

The method is not suitable for coatings of total thickness greater than 250 µm or for textured coatings.

NOTE 2 The method, when applied to coatings designed to give a rough patterned surface, will give results which will show too much variation (see also ISO 16276-2[2]).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1513, *Paints and varnishes — Examination and preparation of test samples*

ISO 1514, *Paints and varnishes — Standard panels for testing*

ISO 2808, *Paints and varnishes — Determination of film thickness*

ISO 13076, *Paints and varnishes — Lighting and procedure for visual assessments of coatings*

ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling*

3 Apparatus

3.1 General

Use ordinary laboratory apparatus, together with the apparatus specified in [3.2](#) to [3.4](#).

3.2 Cutting tool

3.2.1 General requirements

It is particularly important to ensure that the cutting tool is capable of creating the specified V-shape throughout the total coating thickness, and that the cutting edges are in good condition. Suitable tools are described in [3.2.2](#) and [3.2.3](#) and shown in [Figures 1](#) and [2](#).

A single-blade cutting tool ([3.2.2](#)) is the preferred tool in all cases, i.e. with all kinds of coating on both hard and soft substrates. The multi-blade cutting tool ([3.2.3](#)) is not suitable for thick (>120 µm) or hard coatings or where the coating is applied over soft substrates.

The tools described in [3.2.2](#) and [3.2.3](#) are suitable for manual use, which is the more usual method of use, but the tools may also be mounted on a motor-driven apparatus, which gives more uniform cutting. The application of the latter procedure shall be subject to agreement between the interested parties.

NOTE The apparatus (manual or motor-driven) and the type of cutting tool used have an influence on the test result.

Results obtained with different types of cutting tool cannot be directly compared.

3.2.2 Single-blade cutting tools

3.2.2.1 Hand-held single-blade cutting tool with a cutting edge as shown in [Figure 1a](#)).

3.2.2.2 Single-blade cutting tool used in motor-driven apparatus as shown in [Figure 3](#).

3.2.2.3 Cutter with a rigid blade with a V-shaped cutting edge as shown in [Figure 1b](#)), e.g. a Cutter 301¹⁾ as illustrated in Annex A of ISO 17872:2007.[\[3\]](#)

The thickness of the blade may be disregarded as long as the blade is rigid and the cut produced is V-shaped through the whole thickness of the coating.

NOTE The cutter blade is designed to be broken in a defined manner so that a sharp blade is available at any time.

3.2.3 Multi-blade cutting tools

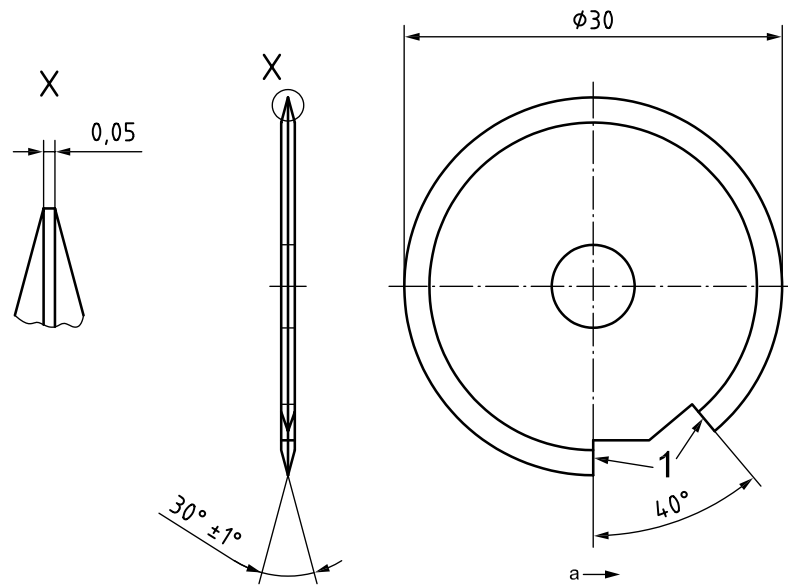
3.2.3.1 Hand-held multi-blade cutting tool with cutting edges as shown in [Figure 2](#).

3.2.3.2 Multi-blade cutting tool used in motor-driven apparatus as shown in [Figure 3](#).

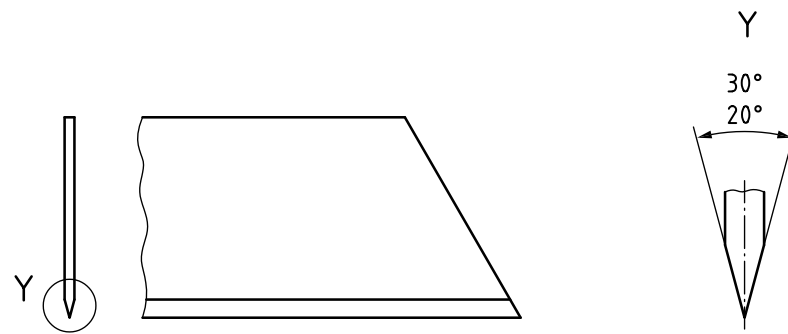
The multi-blade cutting tool shall have six cutting edges spaced 1 mm, 2 mm or 3 mm apart. In addition, two guide edges (see [Figure 2](#)) are necessary to make handling easier. The guide edges and the cutting edges shall lie on the same diameter (see [Figure 2](#)).

1) This is an example of a suitable product available commercially. This information is given for the convenience of users of this International Standard and does not constitute an endorsement by ISO of this product.

Dimensions in millimetres



a) Hand-held single-blade cutting tool



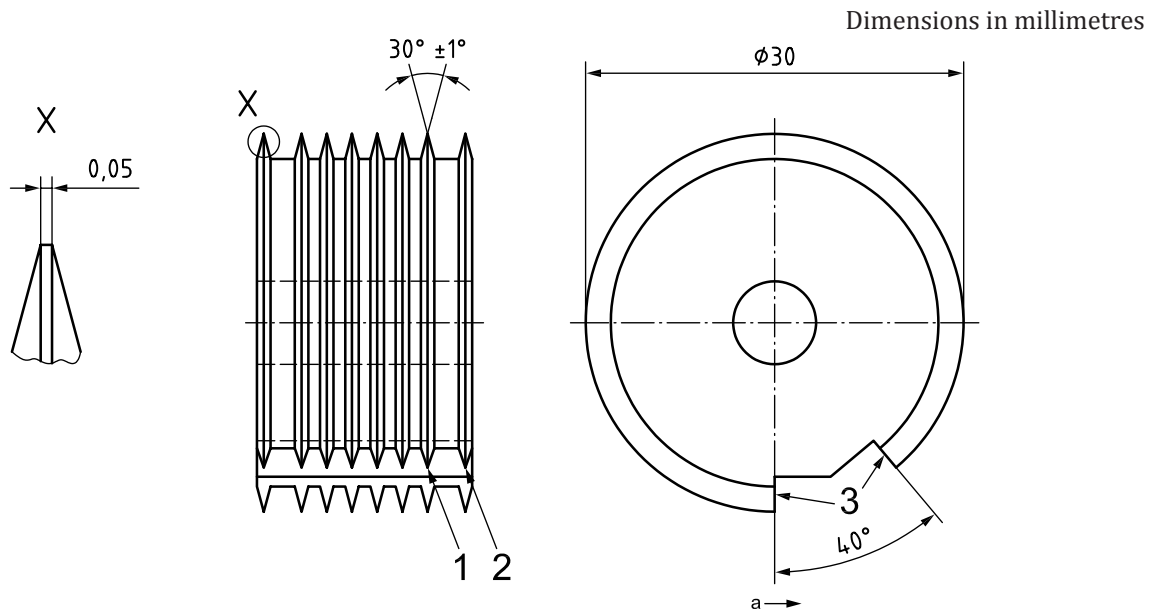
b) Cutter with rigid blade with V-shaped cutting edge (see [3.2.2.3](#))

Key

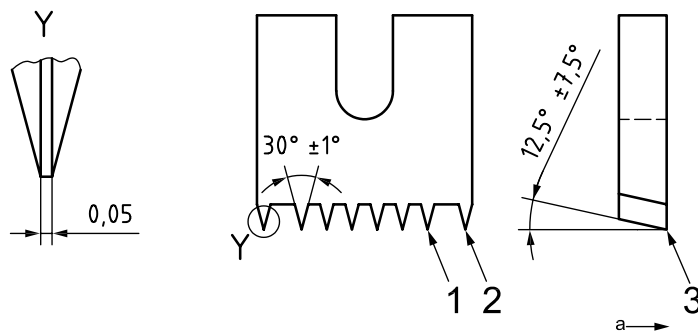
1 cutting edges

a Direction of cut.

Figure 1 — Examples of single-blade cutting tools (all dimensions approximate except where tolerances are specifically indicated)



a) Hand-held multi-blade cutting tool



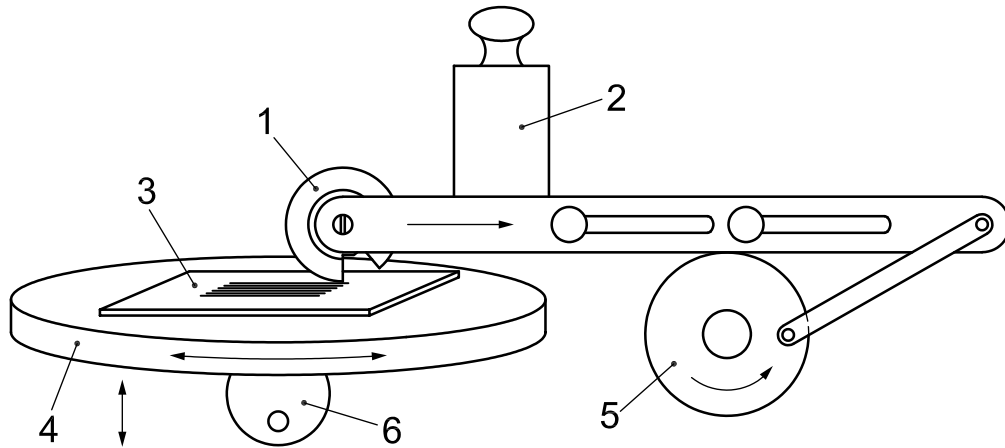
b) Multi-blade cutting tool used in motor-driven apparatus

Key

- 1 cutting blade
- 2 guide edge
- 3 cutting edges

a Direction of cut.

Figure 2 — Examples of multi-blade cutting tools (all dimensions approximate)



Key

- 1 cutting tool
- 2 weight
- 3 test panel
- 4 rotating test panel holder
- 5 motor
- 6 handle for rotating the test panel holder

Figure 3 — Motor-driven apparatus

3.3 Guiding and spacing edges

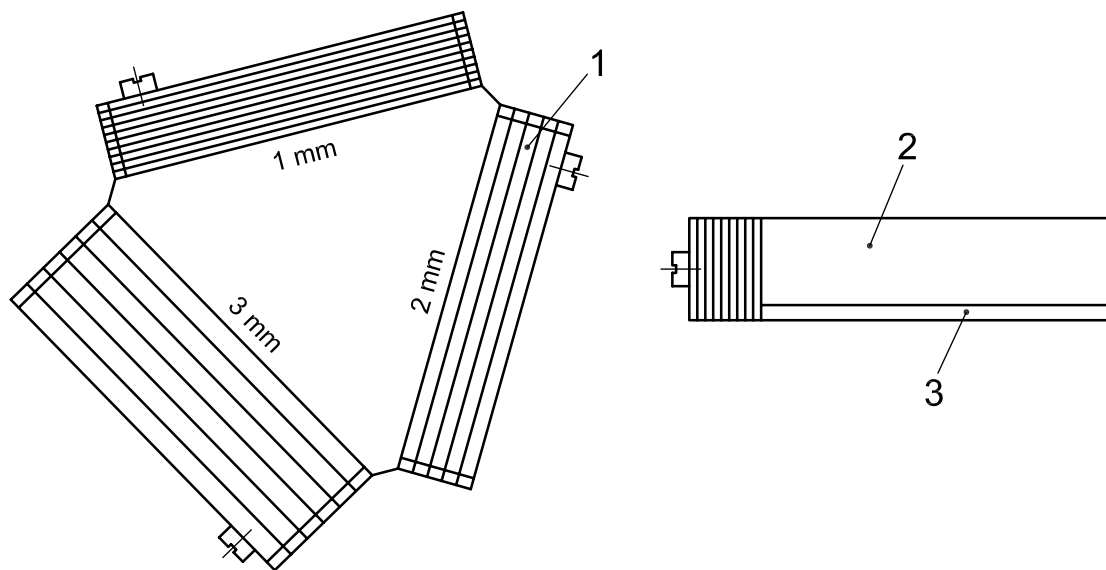
In order to space the cuts correctly, a series of guiding and spacing edges is necessary when using a single-blade cutting tool.

A folding ruler suitable for use with hand-held single-blade cutting tools (3.2.2.1) is shown in [Figure 4a](#)).

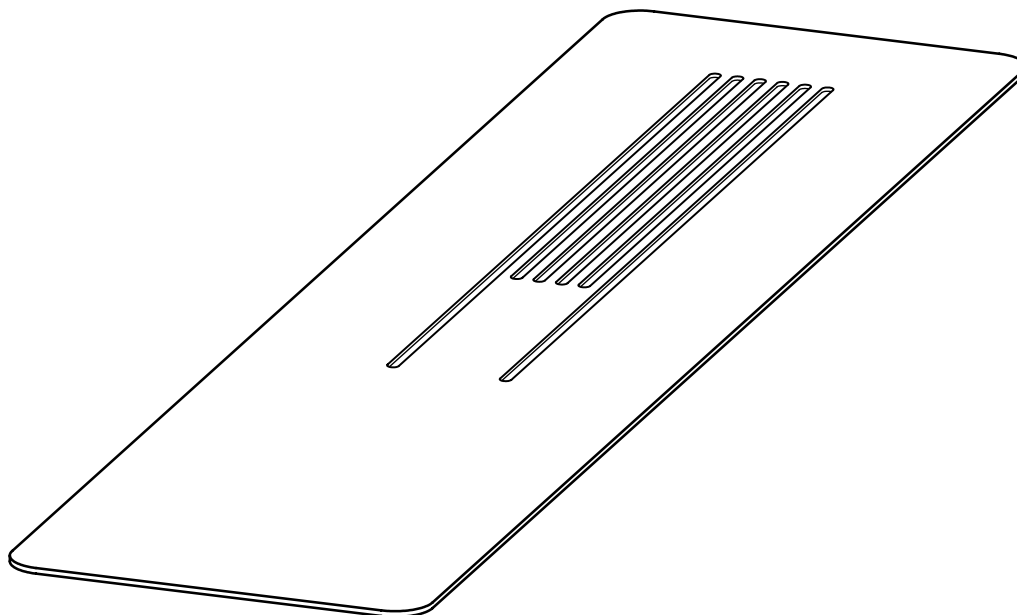
A series of guiding edges suitable for use with cutters with a rigid blade with a V-shaped cutting edge (see 3.2.2.3) is shown in [Figure 4b](#)).

3.4 Viewing lens

Use a hand-held lens with a magnification of $\times 2$ or $\times 3$.



a) Series of spacing edges



b) Series of guiding edges

Key

- 1 spacing edges for 1 mm, 2 mm and 3 mm cuts
- 2 laminated plastic or steel
- 3 rubber

Figure 4 — Examples of guiding and spacing edges

4 Sampling

Take a representative sample of the product to be tested, as described in ISO 15528.

Examine and prepare each sample for testing, as described in ISO 1513.

5 Test panels

5.1 Substrate

Select the substrate from one of those described in ISO 1514.

The panels shall be plain and free from distortion. The dimensions shall be such as to allow the test to be carried out at three different positions not less than 5 mm from each other and from the edge of the panel.

Where panels consist of a relatively soft material such as wood, the minimum thickness shall be 10 mm. Where panels consist of a hard material, the minimum thickness shall be 0,25 mm.

NOTE 1 Rectangular panels, measuring approximately 150 mm × 100 mm, have been found to be convenient.

NOTE 2 In cases where the panel is made of wood, the direction and the structure of the grain can influence the test, and a pronounced grain will render the evaluation impossible.

5.2 Preparation and coating

Prepare each test panel in accordance with ISO 1514 and then coat it by the specified method with the product or system under test.

5.3 Drying

Dry (or stove) and age (if applicable) each coated test panel for the specified time and under the specified conditions.

5.4 Thickness of coating

Determine the thickness, in micrometres, of the dried coating by one of the procedures specified in ISO 2808. Make the measurement at, or as near as possible to, the positions at which the cross-cut is to be made. The number of thickness determinations is dependent on the method used.

6 Procedure

6.1 General

6.1.1 Test conditions and number of tests

Carry out the test at a temperature of (23 ± 2) °C and a relative humidity of (50 ± 5) %.

In field tests, the ambient conditions shall apply, but shall be measured and recorded [see [Clause 10](#), item d)].

6.1.2 Conditioning of the test panels

Condition the test panels immediately prior to the test at a temperature of (23 ± 2) °C and a relative humidity of (50 ± 5) % for a minimum of 16 h.

6.1.3 Number of cuts

The number of cuts in each direction of the lattice pattern shall be six.

6.1.4 Spacing of cuts

The spacing of the cuts in each direction shall be equal and shall depend on the thickness of the coating and on the type of substrate as follows:

up to 60 µm:	1 mm spacing, for hard (e.g. metal and plastics) substrates;
up to 60 µm:	2 mm spacing, for soft (e.g. wood and plaster) substrates;
61 µm to 120 µm:	2 mm spacing, for both hard and soft substrates;
121 µm to 250 µm:	3 mm spacing, for both hard and soft substrates.

The cross-cut test is not suitable for coatings of total thicknesses greater than 250 µm.

NOTE For coatings of total thickness greater than 250 µm, the X-cut method described in ISO 16276-2[2] can be used.

6.1.5 Number of determinations

For routine testing, carry out a single determination.

If a higher precision is required, carry out the test in at least three different places (see 5.1) on the panel. If the results do not match, the differences being more than one classification unit, repeat the test at three other places, if necessary using different panels, and record all the results.

6.2 Cutting the coating using the manual procedure

6.2.1 Place the test panel on a rigid, flat surface to prevent any deformation of the panel during the test.

6.2.2 Before the test, inspect the cutting edge of the blade and maintain its condition by sharpening or replacement.

Perform the cutting manually, following the specified procedure.

If the panel is of wood or similar material, make the cuts at approximately 45° to the direction of the grain.

6.2.3 Hold the cutting tool (3.2) with the blade normal (perpendicular) to the test panel surface. With uniform pressure on the cutting tool and using the appropriate spacing guide (3.3), make six cuts in the coating at a uniform cutting rate by moving the cutting tool in the direction approaching the operator. Each cut shall continue on beyond the outermost of the cuts perpendicular to it for approximately 1 mm to 2 mm to give definite intersection points. All cuts shall mark or scratch the substrate. The depth of indentation into the substrate shall be as low as possible, however.

If it is not possible, due to the hardness of the coating, to penetrate to the substrate, the test shall be declared invalid and so reported.

6.2.4 Repeat this operation, making a further six parallel cuts, crossing the original cuts at 90° to them so that a lattice pattern is formed.

6.2.5 Remove any loose paint from the area of cutting. Examples of suitable methods are given in Annex A. The method for removing the loose paint shall be agreed between the interested parties and shall be stated in the test report.

6.3 Cutting the coating using a motor-driven tool

If the cutting tool is used with a motor-driven apparatus, take care that the points described in the manual procedure are observed, particularly with respect to the number and spacing of the cuts and the number of tests. Each cut shall continue on beyond the outermost of the cuts perpendicular to it for approximately 1 mm to 2 mm to give definite intersection points.

Remove any loose paint from the area of cutting. Examples of suitable methods are given in [Annex A](#). The method for removing the loose paint shall be agreed between the interested parties and shall be stated in the test report.

7 Evaluation and expression of results

Carefully examine visually the cut area of the test coating in good lighting as specified in ISO 13076, using normal or corrected vision or, if agreed between the interested parties, using a viewing lens (3.4). During the viewing process, rotate the panel so that the viewing and lighting of the test area are not confined to one direction. Classify the test area in accordance with [Table 1](#), by comparison with the illustrations.

NOTE Additional guidance is given by the descriptions in [Table 1](#).

In [Table 1](#), a six-step classification is given. The first three steps are satisfactory for general purposes and are to be used when a pass/fail assessment is required. Special circumstances might arise, in which case the complete six-step classification will be necessary.

For a multi-coat system, report the interface at which any flaking occurs.

If test results differ, report each test result. In the case of a multi-coat system, report the site of separation (between coats or between coating and substrate).

8 Designation of the test result

A designation code which may be used to indicate the test result is given below. It shall comprise a reference to this International Standard, a reference to the cutting tool used and the classification achieved. For example:

ISO 2409:2013 — 1a — 2

Number of this standard — Cutting tool and method used — Classification

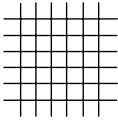
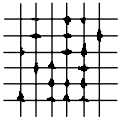
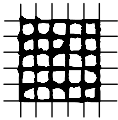
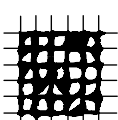
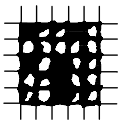
Key for cutting tool and method used:

- 1 Single-blade cutting tool:
 - 1a Hand-held single-blade cutting tool
 - 1b Single-blade cutting tool used in motor-driven apparatus
 - 1c Cutter with rigid blade with V-shaped cutting edge (see [3.2.2.3](#))
- 2 Multi-blade cutting tool:
 - 2a Hand-held multi-blade cutting tool
 - 2b Multi-blade cutting tool used in motor-driven apparatus

Key for the classification of test results:

See [Table 1](#)

Table 1 — Classification of test results

Classification	Description	Appearance of surface of cross-cut area from which flaking has occurred ^a (Example for six parallel cuts)
0	The edges of the cuts are completely smooth; none of the squares of the lattice is detached.	
1	Detachment of small flakes of the coating at the intersections of the cuts. A cross-cut area not greater than 5 % is affected.	
2	The coating has flaked along the edges and/or at the intersections of the cuts. A cross-cut area greater than 5 %, but not greater than 15 %, is affected.	
3	The coating has flaked along the edges of the cuts partly or wholly in large ribbons, and/or it has flaked partly or wholly on different parts of the squares. A cross-cut area greater than 15 %, but not greater than 35 %, is affected.	
4	The coating has flaked along the edges of the cuts in large ribbons and/or some squares have detached partly or wholly. A cross-cut area greater than 35 %, but not greater than 65 %, is affected.	
5	Any degree of flaking that cannot even be classified by classification 4.	—

^a The figures are examples for a cross-cut within each step of the classification. The percentages stated are based on the visual impression given by the pictures and the same percentages will not necessarily be reproduced with digital imaging.

9 Precision

9.1 Repeatability limit, *r*

The repeatability limit *r* is the value below which the absolute difference between two single test results, each the mean of duplicates, can be expected to lie with a 95 % probability when this method is used under repeatability conditions, i.e. when the test results are obtained on identical material by one operator in one laboratory within a short interval of time. For this test method, *r* is 1 classification unit.

9.2 Reproducibility limit, *R*

The reproducibility limit *R* is the value below which the absolute difference between two single test results, each the mean of duplicates, can be expected to lie with a 95 % probability when this method is used under reproducibility conditions, i.e. when the test results are obtained on identical material by operators in different laboratories. For this test method, *R* is 2 classification units.

10 Test report

The test report shall contain at least the following information:

- a) all details necessary to identify the product tested;
- b) a reference to this International Standard (ISO 2409:2013);

- c) details of the preparation of the test panels, including:
 - 1) the material, the thickness and the surface preparation of the substrate (see [5.1](#)),
 - 2) the method of application of the coating material to the substrate, including the duration and conditions of drying between coats in the case of a multi-coat system (see [5.2](#)),
 - 3) the duration and conditions of drying (or stoving) and ageing (if applicable) of the coating before testing (see [5.3](#)),
 - 4) the thickness, in micrometres, of the dry coating and the method of measurement used in ISO 2808, and whether it is a single coating or a multi-coat system (see [5.4](#));
- d) the temperature and relative humidity during the test, if different from those specified in [6.1.1](#);
- e) the type of cutting tool used and the method of operation (manual or motor-driven);
- f) details of the method used to remove loose paint (see [Annex A](#));
- g) the results of the test, as indicated in [Clause 7](#);
- h) any deviations from the procedure specified;
- i) any unusual features (anomalies) observed during the test;
- j) the date of the test.

Annex A (informative)

Examples of suitable procedures for removing loose paint

A.1 Brushing

Brush the panel lightly with a soft brush several times backwards and several times forwards along each of the diagonals of the lattice pattern.

A.2 Using pressure-sensitive adhesive tape

Place the centre of the tape over the lattice in a direction parallel to one set of cuts as shown in [Figure A.1](#) and smooth the tape into place over the area of the lattice.

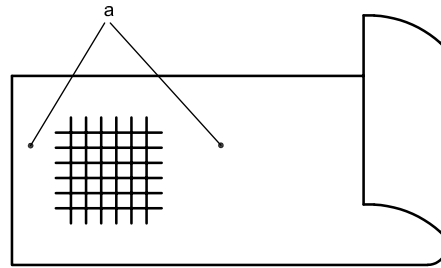
To ensure good contact with the coating, rub the tape firmly with a fingertip or fingernail.

Within 5 min after applying the tape, remove the tape by grasping the free end and pulling it off steadily in 0,5 s to 1,0 s at an angle which is as close as possible to 60° (see [Figure A.1](#)).

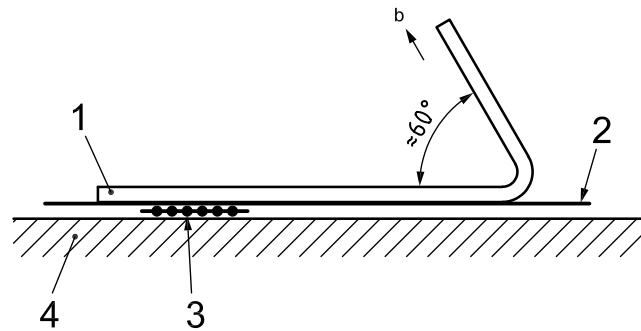
NOTE The operation of applying and removing the tape can be carried out more than once, depending on the kind of coating and cutting direction.

A.3 Using compressed air or nitrogen

Remove any loose paint with compressed air or nitrogen.



a) Position of adhesive tape with respect to grid



b) Position immediately prior to removal from grid

Key

- 1 tape
- 2 coating
- 3 cuts
- 4 substrate

- a Smoothed down.
- b Direction of removal.

Figure A.1 — Positioning of adhesive tape

Bibliography

- [1] ISO 4624, *Paints and varnishes — Pull-off test for adhesion*
- [2] ISO 16276-2, *Corrosion protection of steel structures by protective paint systems — Assessment of, and acceptance criteria for, the adhesion/cohesion (fracture strength) of a coating — Part 2: Cross-cut testing and X-cut testing*
- [3] ISO 17872:2007, *Paints and varnishes — Guidelines for the introduction of scribe marks through coatings on metallic panels for corrosion testing*

SLS CERTIFICATION MARK

The Sri Lanka Standards Institution is the owner of the registered certification mark shown below. Beneath the mark, the number of the Sri Lanka Standard relevant to the product is indicated. This mark may be used only by those who have obtained permits under the SLS certification marks scheme. The presence of this mark on or in relation to a product conveys the assurance that they have been produced to comply with the requirements of the relevant Sri Lanka Standard under a well designed system of quality control inspection and testing operated by the manufacturer and supervised by the SLSI which includes surveillance inspection of the factory, testing of both factory and market samples.

Further particulars of the terms and conditions of the permit may be obtained from the Sri Lanka Standards Institution, 17, Victoria Place, Elvitigala Mawatha, Colombo 08.



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The Principal objects of the Institution as set out in the Act are to prepare standards and promote their adoption, to provide facilities for examination and testing of products, to operate a Certification Marks Scheme, to certify the quality of products meant for local consumption or exports and to promote Standardization and quality control by educational, consultancy and research and research activity.

The Institution is financed by Government grants, and by the income from the sale of its publications and other services offered for Industry and Business Sector. Financial and Administrative control is vested in a Council appointed in accordance with the provisions of the Act.

The development and formulation of National Standards is carried out by Technical Experts and representatives of other interest groups, assisted by the permanent officers of the Institution. These Technical Committees are appointed under the purview of the Sectoral Committees which in return are appointed by the Council. The Sectoral Committees give the final Technical approval for the Draft National Standards prior to the approval by the Council of the SLSI.

All members of the Technical and Sectoral Committees render their services in an honorary capacity. In this process the Institution Endeavours to ensure adequate representation of all view points.

In the International field the Institution represents Sri Lanka in the International Organization for Standardization (ISO), and participates in such fields of Standardization as are of special interest to Sri Lanka.