International Standard ISO 5655

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Photography — Film for industrial radiography — Sizes, quantity packaging and labelling

Photographie — Film pour la radiographie industrielle — Dimensions, unité de conditionnement et étiquetage

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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 developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 5655 was developed by Technical Committee ISO/TC 42, *Photography*, and was circulated to the member bodies in March 1981.

It has been approved by the member bodies of the following countries:

Australia	Germany, F. R.	South Africa, Rep. of
Austria	Italy	Spain
Belgium	Japan	Switzerland
Canada	Korea, Rep. of	United Kingdom
China	Netherlands	USA
Czechoslovakia	Poland	USSR
France	Romania	

No member body expressed disapproval of the document.

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Photography — Film for industrial radiography — Sizes, quantity packaging and labelling

1 Scope and field of application

This International Standard fixes the nominal and cutting sizes of sheet and roll films on safety base for industrial radiography. The photographic image on the film shall be formed within the radiation beam by direct exposure.

This International Standard also specifies the requirements for shape of sheets, quantity packaging, and labelling of the films.

2 Dimensional stability

The dimensions and tolerances specified apply to the film at the time of cutting at 23 ± 2 °C and 50 ± 5 % relative humidity.

Dimensions may be altered by permanent ageing shrinkage and by a temporary shrinkage or swell because of changes in moisture content or temperature. Normally, dimensionally stable films are used for these products, and there shall be no departure from these dimensions by more than + 0,2 to −0,3 % at the time of opening the package.

3 Sizes

The nominal sizes, cutting dimensions, and tolerances shall conform to the values given in tables 1 and 2.

4 Shape of sheets

4.1 Squareness

Sheets shall have straight smooth edges which lie wholly within a plane rectangle having sides equal to the upper limits of the width and length dimensions for the relevant size of film. The dimensions of the sheet shall not be less than those specified in table 1.

Table 1 — Sizes of sheet films

Nominal size[1]	Dimensions at time of cutting[2][3]
cm	mm
6 × 24	58,5 × 238
6 × 48	58,5 × 478
9 × 12	88,5 × 118,5
10 × 24	98,5 × 238
10 × 40	98,5 × 398
10 × 48	98,5 × 478
13 × 18	128 × 178
15 × 40	148 × 398
18 × 24	178 × 238
18 × 43[4]	178 × 430[5]
24 × 30	238 × 298
30 × 40	298 × 398
35 × 43[4]	354 × 430[5]

1) Not all sizes are currently used in all countries. It is expected that during the next 5 years these sizes will become more common as rationalization into SI units takes place.

2) The cutting dimensions for sizes of sheet films not shown in table 1 shall be

nominal dimension minus 1,5 mm for nominal sizes up to and including 12 cm;

nominal dimension minus 2 mm for nominal sizes greater than 12 cm.

3) The tolerances on the cutting dimension shall be

± 0,5 mm for nominal sizes up to and including 12 cm;

± 1 mm for nominal sizes greater than 12 cm.

4) These nominal sizes are the rounded values commonly used for 35,6 cm and 43,2 cm, formerly 14 in and 17 in respectively.

5) In some countries the cutting dimension is 431 mm but it is anticipated that this will change during the next 5 years.

Table 2 — Sizes of roll film

Nominal width	Width at time of cutting[1)2)]	Nominal length
	mm	m
35 mm	34,5	60 or 90
50 mm	49,5	
60 mm	58,5	
70 mm	69,5	
100 mm	98,5	
15 cm	148	60
18 cm	178	
30 cm	298	
40 cm	398	

1) The cutting width for sizes of roll film not shown in table 2 shall be

nominal width minus 1,5 mm for nominal widths up to and including 12 cm;

nominal width minus 2 mm for nominal widths greater than 12 cm.

2) The tolerances on the cutting width shall be

± 0,5 mm for nominal sizes up to and including 12 cm;

± 1 mm for nominal sizes greater than 12 cm.

4.2 Corner rounding (see the figure)

The four corners of the film may be suitably rounded to facilitate handling, to avoid injury, and to function properly. If the corners are rounded, the distance from the theoretical corner of the film to the cut edge of the film, measured along the bisector of the corner shall not exceed 6,4 mm and shall not be less than 2 mm. The cutting shall not intersect the linear edges of the film more than 15 mm or less than 2,8 mm from the theoretical corner. The distance from each theoretical film edge to the cut edge, when measured 10 mm from the theoretical corner, shall not exceed 1 mm. The corners shall have no stepped or sharp features.

5 Quantity packaging

For all sizes, the number of sheets of film for industrial radiography in a single package, or a unit of a multiple package, shall be selected from the following series :

25, 50, 75, 100 and 125 sheets

6 Labelling

6.1 Each package labelling shall include the nominal size of the film contained in the package, listing the smaller value first.

6.2 If it is desired to mark packaged film to indicate conformity to this International Standard, the following wording shall be used :

"Complying with ISO 5655".

Dimensions in millimetres

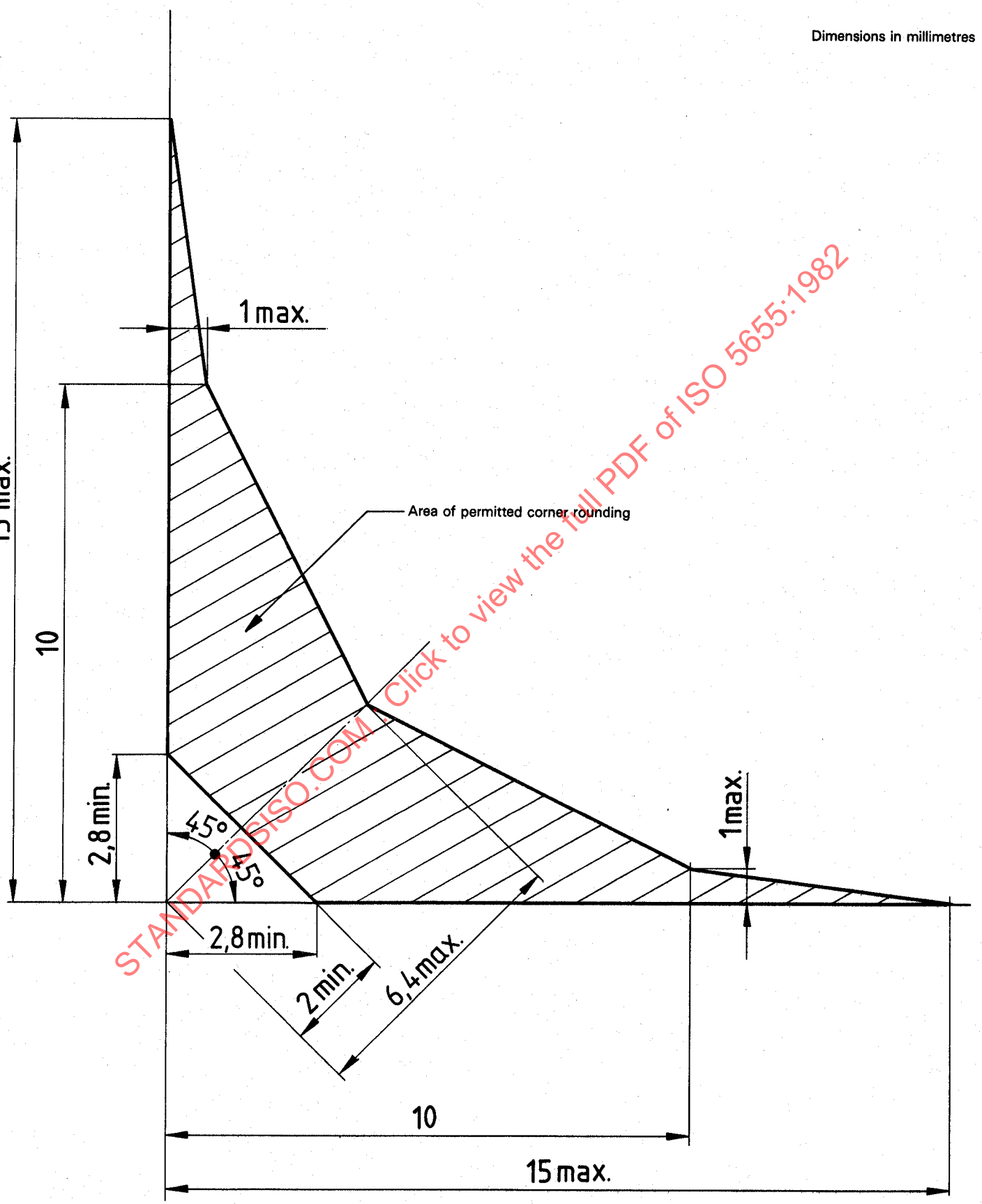

Figure — Corner rounding limits