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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Photography — Overhead projectors —

Part 2 :
Transparencies and transparency frames — Dimensions

Photographie — Rétroprojecteurs —

Partie 2 : Transparents et cadres pour transparents — Dimensions

Reference number
ISO 7943-2 : 1987 (E)

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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7943-2 was prepared by Technical Committee ISO/TC 42, *Photography*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Photography — Overhead projectors —

Part 2 :
Transparencies and transparency frames — Dimensions

0 Introduction

ISO 7943 consists of the following parts:

Part 1 : Projection stages — Dimensions.

Part 2 : Transparencies and transparency frames — Dimensions.

Part 3 : Film rolls, cores and winders — Dimensions.

Two types of overhead projector are specified in ISO 7943-1, i.e. type A (250 mm × 250 mm) and type B (285 mm × 285 mm); the significant difference between them being the dimensions of the picture area.

ISO 7943-3 specifies the dimensions of cores of film rolls including the key-ways in the ends of the cores and the maximum overall diameter of film rolls.

1 Scope and field of application

This part of ISO 7943 specifies the film type for transparencies and the dimensions of mounted and unmounted transparencies, including transparency frames, in order to ensure compatibility between overhead projectors and the transparencies within each type of overhead projector system (type A and type B).

There is some degree of interchangeability of transparencies between projectors of type A and type B.

2 References

ISO 216, *Writing paper and certain classes of printed matter — Trimmed sizes — A and B series.*

ISO 7830, *Photography — Safety photographic films other than motion-picture films — Material specifications.*

ISO 7943, *Photography — Overhead projectors —*

Part 1 : Projection stages — Dimensions.

Part 3 : Film rolls, cores and winders — Dimensions.

3 Definitions

For the purpose of this part of ISO 7943 the following definitions apply.

3.1 film : The transparent material used for transparencies.

NOTE — Film may be in either sheet or roll form.

3.2 transparency: The general term used for film carrying an image for projection by an overhead projector.

3.3 information area: That part of a transparency which contains the image or images for projection.

3.4 transparency frame: The frame for mounting (or supporting) a transparency, which includes a mask opening.

3.5 location holes: Holes in the transparency frame or unmounted transparency which fit the location pins on the projection stage of an overhead projector to position transparencies.

4 Film for transparencies

4.1 All film used for overhead projector transparencies shall be safety film conforming to ISO 7830.

4.2 Sheet film

The dimensions of sheet film shall be as given in table 1.

Table 1 — Sheet film — Designation and dimensions

Dimensions in millimetres

Designation	Dimensions
S1	216 × 267 ± 2,0
S2	216 × 279 ± 2,0
S3 *	210 × 297 ± 2,0
S4	297 × 297 ± 3,0

* A4 size as specified in ISO 216.

4.3 Film for rolls

The width of film for rolls shall be as given in table 2.

Table 2 — Roll film — Designation and width

Dimensions in millimetres

Designation	Width of film
R1	$250\ ^{+10}_{0}$ (for type A overhead projector)
R2	$285\ ^{+10}_{0}$ (for type B overhead projector)

5 Sheet transparencies

Sheet transparencies may be used unmounted or mounted.

5.1 The outer dimensions of unmounted transparencies shall correspond to the dimensions of the film given in table 1.

5.2 The information area of unmounted transparencies shall not exceed the minimum dimensions of the picture area of the type of projector, A or B, for which the transparency is intended (see ISO 7943-1).

5.3 The dimensions and locations of location holes shall be as shown in figures 1 and 2 for S3 and S4 sheet films respectively.

5.4 The information areas on sheet films S3 and S4 shall be centred as shown in figures 1 and 2 respectively.

6 Transparency frames

6.1 Mounted transparencies shall have a frame the dimensions of which are specified in 6.3.

6.2 The provision of a field is recommended on the transparency frame in which data may be printed or written, for example title of transparency, author, reference number.

6.3 Transparency frames types A1, A2, B1, B2 and C shall comply with the dimensions shown in figures 3, 4, 5, 6 and 7 respectively and in table 3.

Table 3 — Transparency frames — Designations and mask dimensions

Dimensions in millimetres

Designation	Nominal mask opening size	Mask aperture	
		Dimensions	Corner cut
A1	250 × 250	247 × 247 ± 2,0	60 ± 2,5 (radius)
A2	200 × 250	195 × 247 ± 2,0	15 ± 2,5 (radius)
B1	285 × 285	280 × 280 ± 2,0	40 × 40 ± 1,0 (diagonal) or 40 $^{0}_{-2}$ (radius)
B2	200 × 285	195 × 280 ± 2,0	15 ± 2,5 (radius)
C	180 × 240	180 × 240 ± 1,0	13 max. (radius)

NOTE — The transparency frame type C is primarily used in the USA.

Dimensions in millimetres

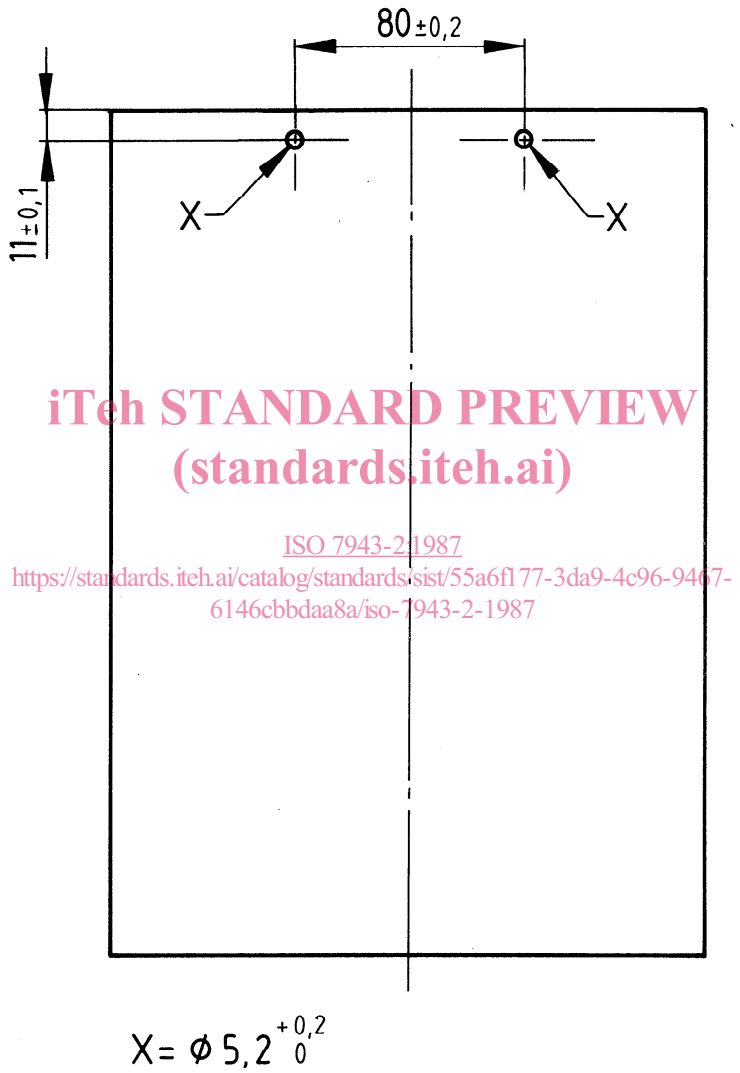


Figure 1 — Sheet film S3 (210 mm × 297 mm) — Dimensions and positions of location holes and centre-line of information area

Dimensions in millimetres

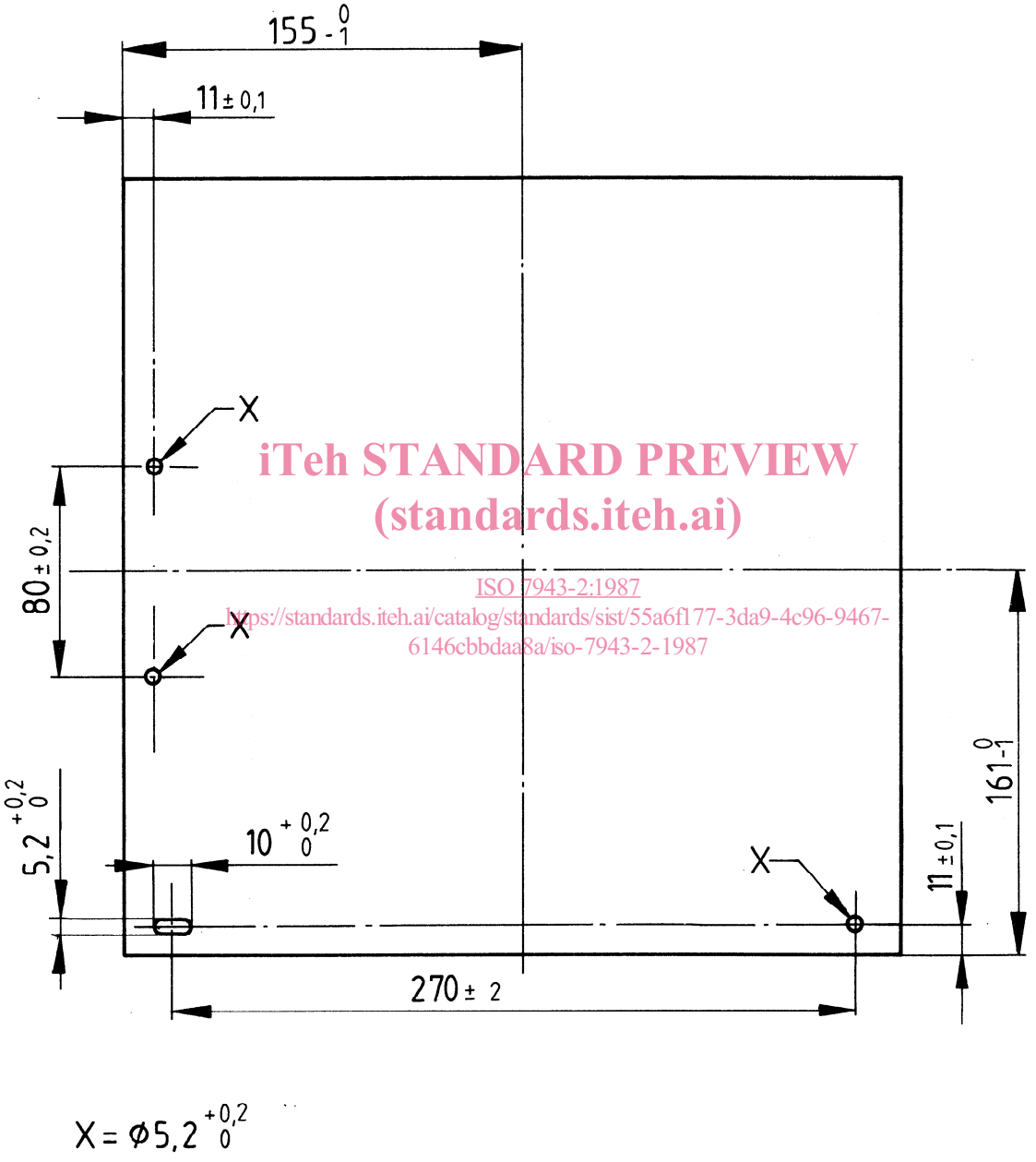
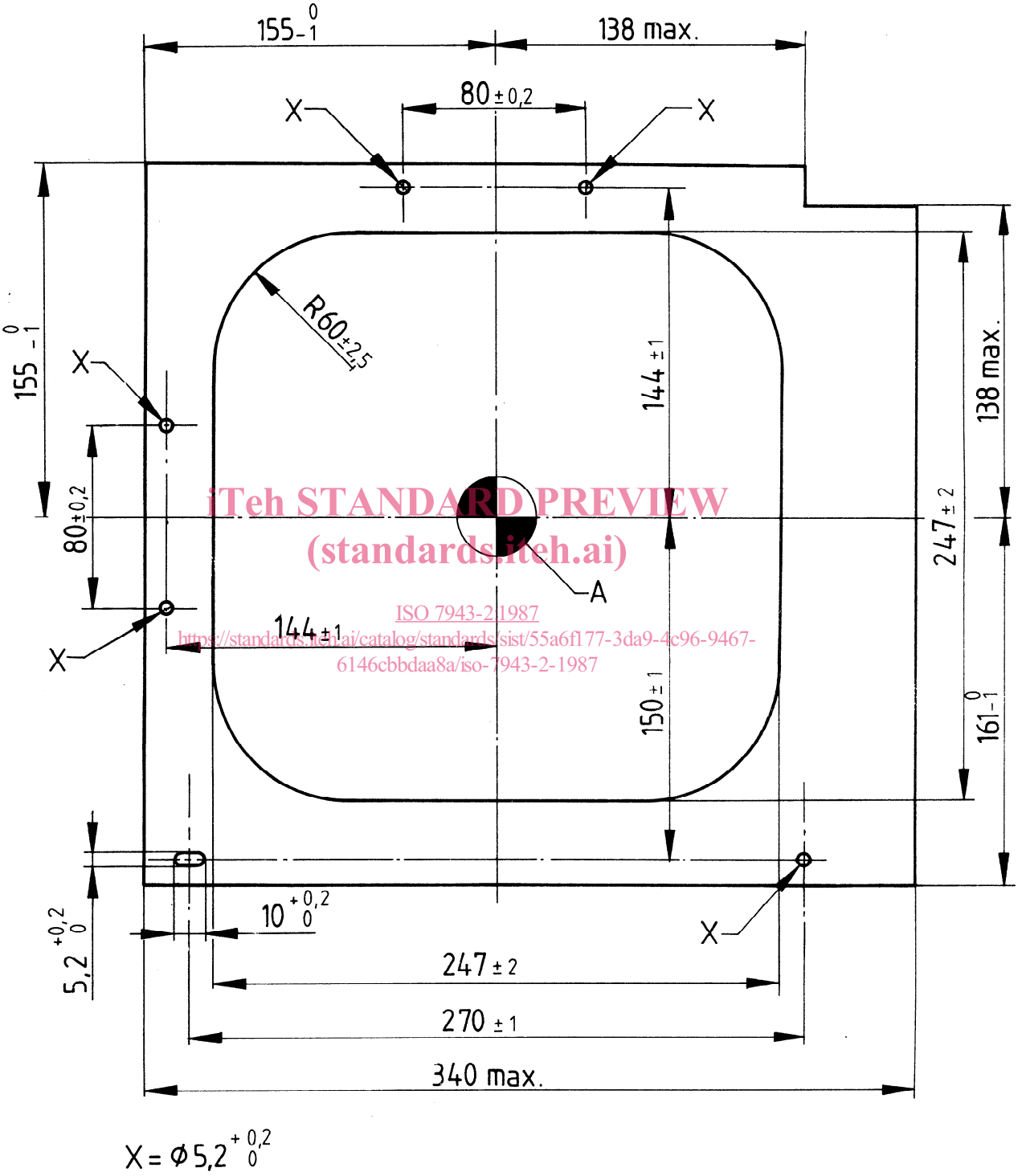


Figure 2 — Sheet film S4 (297 mm × 297 mm) — Dimensions and positions of location holes and centre-lines of information area

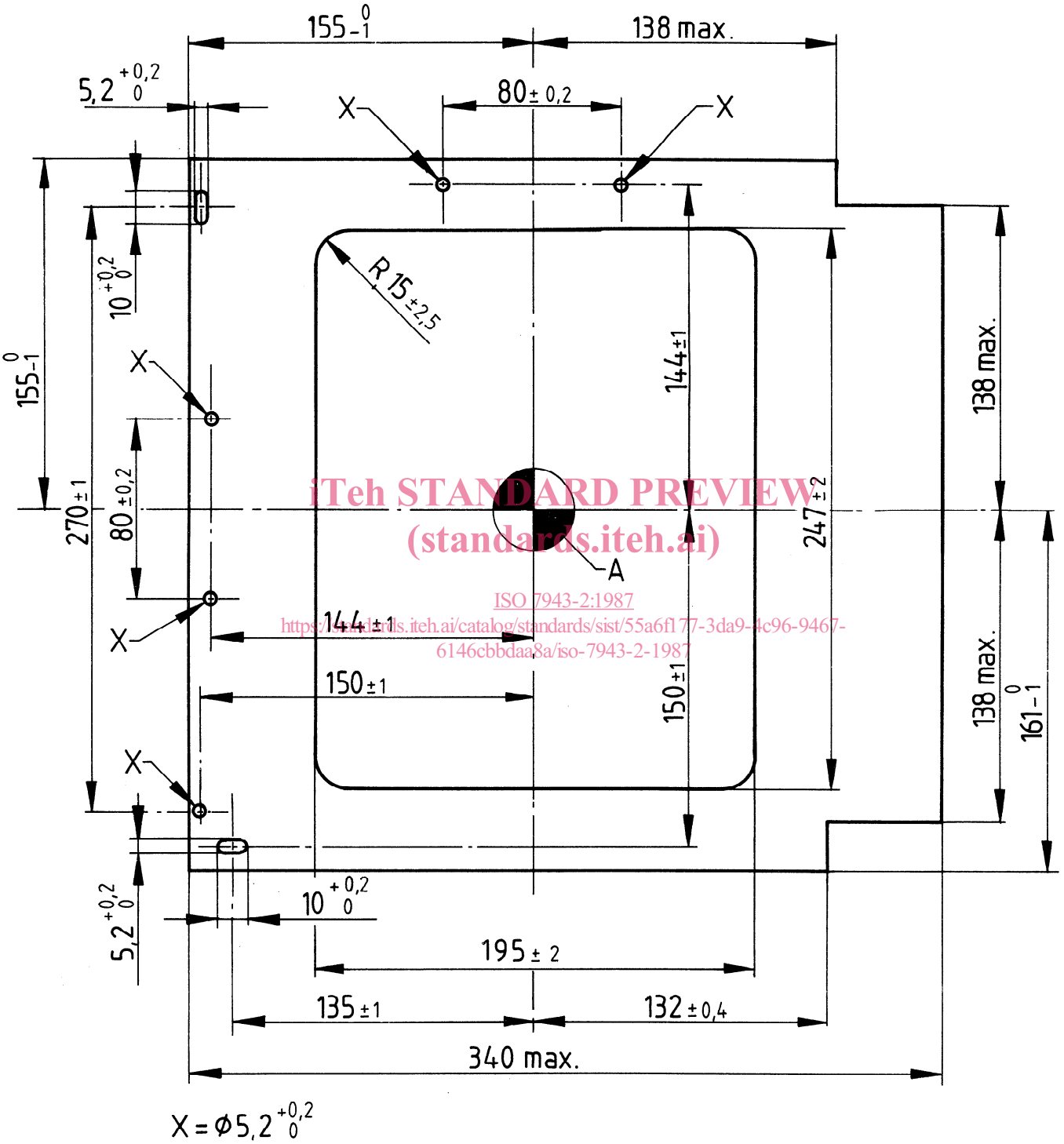
Dimensions in millimetres



NOTE — A is the optical centre of the frame mask opening.

Figure 3 — Transparency frame type A1

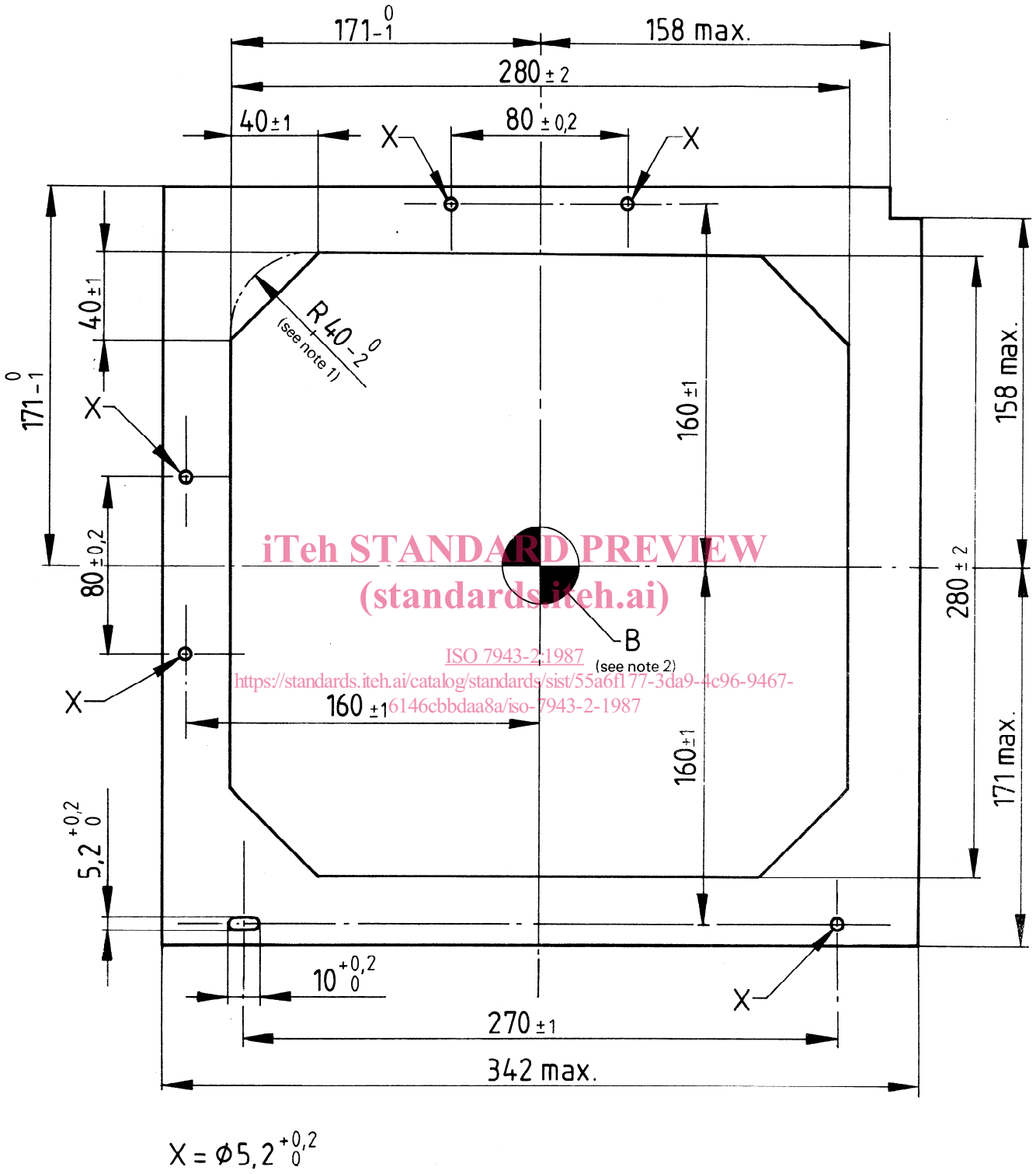
Dimensions in millimetres



NOTE — A is the optical centre of the frame mask opening.

Figure 4 — Transparency frame type A2.

Dimensions in millimetres



NOTES

1 Radius corner is optional.

2 B is the optical centre of the frame mask opening.

Figure 5 — Transparency frame type B1