



American National Standard/
American Dental Association
Specification No. 74

Dental Operator's Stool

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AMERICAN NATIONAL STANDARD AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 74 FOR DENTAL OPERATOR'S STOOL

The Council on Scientific Affairs of the American Dental Association has approved revised American Dental Association Specification No. 74 for Dental Operator's Stool. This and other specifications for dental materials, instruments and equipment are being formulated by working groups of the ADA Standards Committee on Dental Products (formerly Accredited Standards Committee MD156 for Dental Materials, Instruments and Equipment). The Committee has representation from all interests in the United States in the standardization of materials, instruments and equipment in dentistry. The Council has adopted the specifications, showing professional recognition of their usefulness in dentistry, and has forwarded them to the American National Standards Institute with a recommendation that the specifications be approved as American National Standards. The American National Standards Institute granted approval of ADA Specification No. 74 as an American National Standard in 2002.

The Council thanks the working group members and the organizations with which they were affiliated at the time the specification was developed:

Howard W. Roberts (Chairman), USAF Dental Investigation Service, Great Lakes, IL; Ed Holland, Dental EZ Corp., Bay Minette, AL; Daniel Leonard, USAF Dental Investigation Service, Great Lakes, IL; George Szalony, Pelton and Crane, Inc., Charlotte, NC; and Jeff Zawada, A-Dec Corp., Newberg, OR.

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FOREWORD

(This foreword does not form a part of the Proposed ANSI/ADA Specification No. 74 for Dental Operator's Stool).

The ADA Standards Committee on Dental Products Subcommittee on Dental Units, Chairs, and Stools developed this Proposed ANSI/ADA Specification No. 74. It applies to all dental operator's stools.

This specification is basically an adoption of ISO Standard 7493:1997, Dental Operator's Stool with some minor changes. These include:

1. Changing the loading of the seat during testing to be within the perimeter of the seat at the least favorable edge of the seat to more represent clinical conditions;
2. Modifying with slight change of minimal chair height to more represent clinical conditions;
3. Moving of reference point B to the rear of the backrest so as not to be influenced by the compression of the foam backrest during loading;
4. Modifying the tipping testing of stools to a loaded condition to represent clinical conditions;
5. Elimination of the requirements if seat depth and height in manufacturer's instructions, as this information is more properly aligned with sales marketing information, rather than stool operation;
6. Elimination of serial number requirements for dental stools.

Working group members and the organizations with which they were affiliated at the time the specification was developed: Howard W. Roberts (Chairman), USAF Dental Investigation Service, Great Lakes, IL; Ed Holland, DentalEz Corporation, Bay Minette, AL; Daniel Leonard, USAF Dental Investigation Service, Great Lakes, IL; George Szalony, Pelton and Crane, Inc., Charlotte, NC; and Jeff Zawada, A-Dec Corporation, Newberg, OR.

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1 Scope

This specification specifies requirements, recommendations and methods of test for dental operator's stools as well as requirements for manufacturer's instructions, marking and packaging. It covers also recommendations to manufacturers on the design of tools.

NOTE – For the purposes of this specification, “dental operator” includes dental assistants and dental hygienists.

2 Normative references

The following standards contain provisions that, through reference in this text, constitute provisions of this specification. At the time of publication, the editions indicated were valid. All specifications are subject to revision, and parties to agreements based on this specification are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1942-4:1989, Dental vocabulary—Part 4: Dental equipment.

ISO 8191-1:1987, Furniture – Assessment of the ignitability of upholstered furniture – Part 1: Ignition source: smouldering cigarette.

ISO 9687:1993, Dental equipment – Graphical symbols.

IEC 601-1:1988, Medical electrical equipment – Part 1: General requirements for safety.

3 Definitions

For the purpose of this specification, the definitions in ISO 1942-4 and the following definitions apply.

3.1 dental operator's stool: Movable seat, adjustable in height, which satisfies the general requirements relevant to the performance of dentistry by a seated operator. [ISO 1942-2:1989, 4.021].

3.2 seat height, h_1 or h_2 (see figure 1): Vertical distance between the floor and the point of intersection of the swivel axis with the plane of the loaded surface (h_1) or the unloaded surface (h_2) of the seat.

3.3 seat width, b (see figure 1): Horizontal dimension of the widest part of the seat between the upper edges of the sides of the seat, measured perpendicularly to the anteroposterior plane of the seat.

3.4 seat depth, c_1 or c_2 (see figure 1): Horizontal dimension (c_1) measured alongside the center of width b in the anteroposterior plane of the seat between the vertical projections of the front edge and the back edge of the seat.

If the stool is provided with a backrest, the dimension (c_2) is measured between the foremost projection of the centerline of the backrest and the normal projection of the front edge of the seat.