

---

---

**Protective equipment for use in ice  
hockey —**

Part 4:  
**Head and face protection for  
goalkeepers**

*Équipements de protection destinés à être utilisés en hockey sur  
glace —*

*Partie 4: Protections de tête et de visage pour les gardiens de but*



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

# Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Requirements</b> .....	<b>2</b>
4.1 General.....	2
4.2 Design.....	2
4.2.1 Padding.....	2
4.2.2 Load-bearing area.....	2
4.2.3 Welded wire components.....	2
4.2.4 Overlap.....	2
4.2.5 Minimum distance (headform to face protector).....	3
4.2.6 Maximum distance (headform to face protector).....	3
4.3 Protected areas (coverage).....	3
4.3.1 Protected area of the head.....	3
4.3.2 Protected area of the face.....	3
4.4 Penetration resistance.....	3
4.4.1 General.....	3
4.4.2 Types D1 and D2.....	3
4.4.3 Type D3.....	3
4.5 Shock-absorbing capacity.....	3
4.6 Puck impact resistance.....	3
4.6.1 Contact test.....	3
4.6.2 Toughness test.....	4
4.7 Retention system.....	4
4.8 Field of vision.....	4
<b>5 Test methods</b> .....	<b>4</b>
5.1 General.....	4
5.1.1 Tolerances and uncertainty estimations.....	4
5.1.2 Samples.....	4
5.1.3 Component assemblies.....	5
5.2 Conditioning.....	5
5.3 Protector positioning.....	5
5.4 Protected area (coverage) test.....	5
5.4.1 Protected area of the head.....	5
5.4.2 Protected area of the face.....	5
5.4.3 Coverage test.....	5
5.5 Penetration test.....	5
5.5.1 Test apparatus.....	5
5.5.2 Procedures.....	6
5.6 Shock absorbing capacity test.....	6
5.7 Puck impact resistance test.....	6
<b>6 Test report</b> .....	<b>6</b>
<b>7 Permanent marking</b> .....	<b>6</b>
<b>8 Information for users</b> .....	<b>7</b>

## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

The committee responsible for this document is ISO/TC 83, *Sports and other recreational facilities and equipment*, Subcommittee SC 5, *Ice hockey equipment and facilities*.

This first edition of ISO 10256-4, together with ISO 10256-1, ISO 10256-2, ISO 10256-3, ISO 10526-5, and ISO 10256-6, cancels and replaces ISO 10256:2003, which has been technically revised.

ISO 10256 consists of the following parts, under the general title *Protective equipment for use in ice hockey*:

- *Part 1: General requirements*
- *Part 2: Head protection for skaters*
- *Part 3: Face protectors for skaters*
- *Part 4: Head and face protection for goalkeepers*
- *Part 5: Neck laceration protectors for ice hockey players*

The following parts are under preparation:

- *Part 6: Lower leg protectors for ice hockey players*

## Introduction

Ice hockey is a contact sport with intrinsic hazards. The use of protective equipment will not eliminate all injuries but is intended to substantially reduce the severity and frequency of many injuries. Participation in the sport of ice hockey by a player implies acceptance of some risk of injury. The goal is to reduce the risk.

Performance requirements were determined after consideration of the state of the art of head and face protective design and manufacture. This specification was developed to address the unique demands and hazards associated with the position of ice hockey goalkeeper.

Three types of protectors are designated. All types are subject to impact resistance and shock attenuation requirements. Types D1 and D2 protectors are subject to hockey stick blade penetration resistance requirements over their entire area of coverage. Type D3 protectors are subject to hockey puck penetration resistance requirements within the protected area of the face and hockey stick blade penetration resistance requirements over the protected area of the head. It is recommended that Type D3 protectors be used only by players 18 years of age and older.



# Protective equipment for use in ice hockey —

## Part 4: Head and face protection for goalkeepers

### 1 Scope

This part of ISO 10256 covers performance requirements for head and face protectors to be used by ice hockey goalkeepers. It is intended to be read in conjunction with ISO 10256-1, ISO 10256-2 and ISO 10256-3.

Performance requirements are established, where appropriate for the following:

- a) materials, assembly, and design;
- b) protected areas (coverage) and penetration resistance;
- c) shock absorption;
- d) puck impact resistance;
- e) retention;
- f) optical quality.

NOTE 1 The requirements of a clause take precedent over a figure.

NOTE 2 The intent of this part of ISO 10256 is to reduce the risk of injury to the head and face of ice hockey goalkeepers without compromising the form and appeal of the game.

### 2 Normative references

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

ISO 10256-1:2016, *Protective equipment for use in ice hockey—Part 1: General requirements*

ISO 10256-2:2016, *Protective equipment for use in ice hockey—Part 2: Head protection for skaters*

ISO 10256-3:2016, *Protective equipment for use in ice hockey—Part 3: Face protectors for skaters*

CSA Z262.6-14, *Specifications for Facially Featured Headforms*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10256-1, ISO 10256-2 and ISO 10256-3 and the following apply.

#### 3.1

##### **goalkeeper head and face protector**

##### **goalkeeper protector**

device intended to protect the head and face of an ice hockey goalkeeper

Note 1 to entry: Examples can include but are not limited to the following: