International Standard



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION®MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ®ORGANISATION INTERNATIONALE DE NORMALISATION

Shipbuilding — Deck machinery — Warping end profiles

Construction navale - Auxiliaires de pont - Profils de poupée

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ISO 6482:1980 https://standards.iteh.ai/catalog/standards/sist/3437a850-6e9b-44c7-be8eb91c13070ad6/iso-6482-1980

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Descriptors : shipbuilding, decks, profiles, dimensions, hooks, holes, designations, machine elements, torque.

Foreword

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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 6482 was developed by Technical Committee ISO/TC 8, Shipbuilding, and was circulated to the member bodies in May 1979. s.iteh.ai)

It has been approved by the member bodies of the following countries : $$\rm ISO\ 6482{:}1980$$

Belgium	lttdia//standards.iteh.ai/catal	ogMexico.ds/sist/3437a850-6e9b-44c7-be8e-
Bulgaria	÷	30Netherlands482-1980
Czechoslovakia	Japan	Norway
Finland	Korea, Dem. P. Rep. of	Poland
France	Korea, Rep. of	Romania
Germany, F.R.	Libyan Arab Jamahiriya	Spain

The member body of the following country expressed disapproval of the document on technical grounds :

United Kingdom

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Shipbuilding — Deck machinery — Warping end profiles

1 Scope and field of application

This International Standard specifies the types, nominal sizes, dimensions and designation of warping end profiles mounted on extensions of vertical or horizontal shafts and intended for windlasses, capstans, mooring winches and various shipboard winches, including winches used for fishery, used for hauling in steel wire rope, and ropes of natural and man-made fibre.

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 3828 apply.

4 Types, nominal sizes and dimensions

4.1 Types

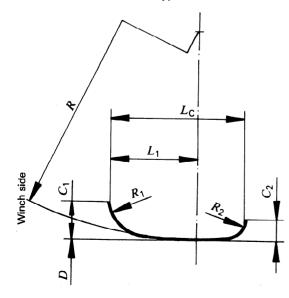
2 Reference

iTeh STANDARD This International Standard specifies two types of warping end profiles, as shown in figure 1, namely (standards.iten.ai)

Type C – common

ISO 3828, Shipbuilding – Deck machinery – Vocabulary. 6482:1980 Type E – elongated https://standards.iteh.ai/catalog/standards/sist/3437a850-6e9b-44c7-be8eb91c13070ad6/iso-6482-1980





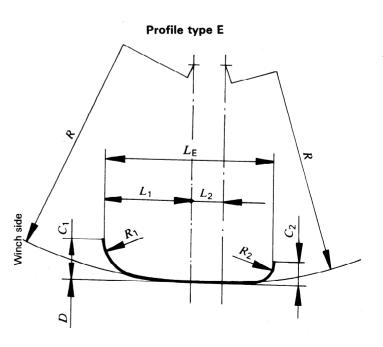


Figure 1 – Profile types

4.2 Nominal sizes and dimensions

The dimensions of the warping end profiles shall correspond to the values given in the table. As a modulus determining all the profile dimensions, a value equal to 1/3 of the diameter of natural (manilla) rope is accepted.

5 Relation between nominal dimensions and rope sizes

5.1 The nominal size L_c of the warping end profile type C shall be selected according to the rope quality and diameter *d* in accordance with the following relations :

steel wire rope	$L_{\rm C}$ > 10 d
natural fibre rope	$L_{\rm C}$ > 6 d
man-made fibre rope	$L_{\rm C}$ > 10 d

These relations shall also be observed when determining the maximum allowable rope diameter for a given warping end profike.

5.2 The warping end minimum profile diameter D (see) figure 1) shall correspond to the following requirements :

steel wire rope	D > 16 d	(standaruş itemar)	
natural fibre rope	D > 6 d	ISO 6482:1980	
man-made fibre rope	D > h8pd://stand	ards.iteh.ai/catalog/standardEigure427a8Dimensions7for&	alculation of shaft torque

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Winch side

6 Calculation of warping end shaft torque

following formula :

where

 $C_r = 0.9 m + 0.45 d$

 $L_r = 2,9 m + 0,2 d$

m is the modulus of the profile;

natural fibre or man-made fibre).

Dimensions C_r and L_r (see figure 2) shall be taken into account

when calculating the shaft torque, in accordance with the

d is the maximum allowable rope diameter (steel wire,

Dimensions in millimetres Nominal size L Modulus L_1 L_2 R R_1 R_2 C_1 C_2 m Type C Type E $(L_{\rm E})$ $(L_{\rm C})$ 10,0 180 112 500 50 25 50 28 ____ 11,2 200 125 560 56 28 56 ----32 12,5 225 140 630 63 32 63 36 14,0 250 160 ____ -----710 71 36 71 40 16,0 280 360 180 71 800 80 40 80 45 18,0 315 400 200 80 900 90 45 50 90 20,0 360 450 225 90 1 000 100 50 100 56 22,5 400 500 250 100 1 120 112 56 112 63 25,0 450 560 280 112 1 250 125 63 125 71 28,0 500 315 1 400 140 71 140 _ ----80 31,5 560 360 160 90 1 600 80 160 _ 36,0 630 400 1 800 180 90 180 100 -----____ 40,0 710 _ 450 _ 2 000 200 100 200 112 45,0 800 500 2 250 225 112 225 125

Table - Nominal sizes and dimensions

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Dimensions in millimetres

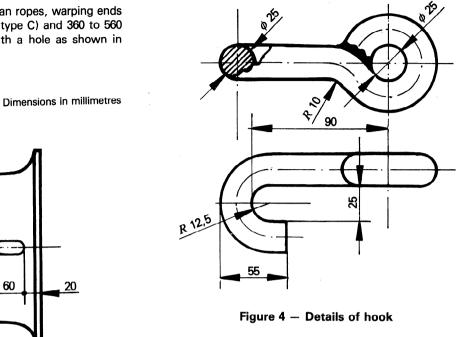
7 Hole and rope hook

7.1 When operating with guy and span ropes, warping ends of nominal sizes 280 to 450 inclusive (type C) and 360 to 560 inclusive (type E) may be supplied with a hole as shown in figure 3 for hook attachment.

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8 Designation Figure 3 — Details of hole Warping end profile conforming to this International Standard shall be designated in the following order :

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7.2 The standing part of the rope may be provided with and sist/3437a warping end profile **7.2** The standing part of the tope thig, so particularly which the iso-6482-1980 hook corresponding to that shown in figure 4, by which the iso-6482-1980 — number of this International Standard; rope may be fixed in the warping end hole. (Rope hook mass \approx 1,1 kg.)

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type symbol (C or E);

- nominal size (see the table).

Example for the designation of a warping end profile according to ISO 6482, common type (C), nominal size 400 mm :

Warping end profile ISO 6482 - C - 400

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