

>Y`Yb]`fU\_cj`j]b`HUb\_Ud`c Yj]bUg`dcj Y Ubc`bUdYfcgHc`HY Yb`Ug`dcj fý]bcž  
 nUý ]Hbc`dc`dcgHcd\_]`jfc Y[ Uca U\_Ub`UĚ`HY b] b]`XcVUj b]`dc[ c`Ě`8cdc`b]`c  
 5%

Continuously hot-dip coated strip and sheet of steels with higher yield strength for cold forming - Technical delivery conditions

Kontinuierlich schmelztauchveredeltes Band und Blech aus Stählen mit hoher Streckgrenze zum Kaltumformen - Technische Lieferbedingungen

Bandes et tôles en aciers a haute limite d'élasticité revetues en continu par immersion a chaud pour formage a froid - Conditions techniques de livraison

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**Ta slovenski standard je istoveten z: EN 10292:2000/A1:2003**

**ICS:**

77.140.50 Ú[[ z aãb \|^} aã a^ \ aã Flat steel products and semi-products  
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ICS 77.140.50

English version

## Continuously hot-dip coated strip and sheet of steels with higher yield strength for cold forming - Technical delivery conditions

Bandes et tôles en aciers à haute limite d'élasticité  
revêtues en continu par immersion à chaud pour formage à  
froid - Conditions techniques de livraison

Kontinuierlich schmelztauchveredeltes Band und Blech aus  
Stählen mit hoher Streckgrenze zum Kaltumformen -  
Technische Lieferbedingungen

This amendment A1 modifies the European Standard EN 10292:2000; it was approved by CEN on 20 February 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN 10292:2001/A1:2003](https://standards.iteh.ai/catalog/standards/sist/9d9b75b9-4bd3-4b89-8036-563058b158ce/sist-en-10292-2001-a1-2003)

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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## Foreword

This document (EN 10292:2000/A1:2003) has been prepared by Technical Committee ECISS/TC 27 "Surface coated flat products - Qualities, dimensions, tolerances and specific tests", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2003, and conflicting national standards shall be withdrawn at the latest by October 2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

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Table 1 — Chemical composition (cast analysis)

Designation			% by mass							
Steel grade	Symbols for the type of	the available hot-dip coatings	C	Si	Mn	P	S	Al	Ti <sup>b</sup>	Nb <sup>b</sup>
Steel name <sup>a</sup>	Steel number		max.	max.	max.	max.	max.	min.	max.	max.
H180YD	1.0921	+Z, +ZF, +ZA, +AZ, +AS	0,01	0,10	0,70	0,06	0,025	0,02	0,12	-
H180BD	1.0354	+Z, +ZF, +ZA, +AZ, +AS	0,04	0,50	0,70	0,06	0,025	0,02	-	-
H220YD	1.0923	+Z, +ZF, +ZA, +AZ, +AS	0,01	0,10	0,90	0,08	0,025	0,02	0,12	-
H220PD	1.0358	+Z, +ZF, +ZA, +AZ, +AS	0,06	0,50	0,70	0,08	0,025	0,02	-	-
H220BD	1.0353	+Z, +ZF, +ZA, +AZ, +AS								
H260YD	1.0926	+Z, +ZF, +ZA, +AZ, +AS	0,01	0,10	1,60	0,10	0,025	0,02	0,12	-
H260PD	1.0431	+Z, +ZF, +ZA, +AZ, +AS	0,11	0,50	0,70	0,10	0,025	0,02	-	-
H260BD	1.0433	+Z, +ZF, +ZA, +AZ, +AS								
H260LAD	1.0929	+Z, +ZF, +ZA, +AZ, +AS	0,11	0,50	0,60	0,025	0,025	0,015	0,15	0,09
H300PD	1.0443	+Z, +ZF, +ZA, +AZ, +AS	0,11	0,50	0,70	0,12	0,025	0,02	-	-
H300BD	1.0445	+Z, +ZF, +ZA, +AZ, +AS								
H300LAD	1.0932	+Z, +ZF, +ZA, +AZ, +AS	0,11	0,50	1,00	0,025	0,025	0,015	0,15	0,09
H340LAD	1.0933	+Z, +ZF, +ZA, +AZ, +AS	0,11	0,50	1,00	0,025	0,025	0,015	0,15	0,09
H380LAD	1.0934	+Z, +ZF, +ZA, +AZ, +AS	0,11	0,50	1,40	0,025	0,025	0,015	0,15	0,09
H420LAD	1.0935	+Z, +ZF, +ZA, +AZ, +AS	0,11	0,50	1,40	0,025	0,025	0,015	0,15	0,09

<sup>a</sup> **H** cold rolled flat products of high strength for cold forming; *nnn* minimum proof strength  $R_{p0,2}$ , N/mm<sup>2</sup>;

**B** bake-hardened; **P** rephosphorized; **Y** interstitial free; **LA** low alloy (micro-alloyed); **D** intended for hot-dip coating.

<sup>b</sup> These additional elements may be used individually or in combination where they appear in the definition of the steel

in the composition limits indicated. Vanadium and boron may also be added. The sum of the contents of the dispersoidal elements **Ti, Nb and V** shall not exceed 0,22 % by mass however.

Bake-hardening steels and rephosphorized steels may also contain these **three** elements up to max. 0,22%.