



FLAT AND WIDE FLAT STEEL

PRODUCTS, DIMENSIONS

WIDE FLAT STEEL (UNIVERZÁLNÍ TRÁŽ BOHUMÍN)

Univerzální traž Bohumín produces flat and wide flat steel in width 150 – 520 mm, thickness 5 – 100 mm and length 2 – 13 m.

Nominal width	Nominal thickness	Basic lengths produced	Length tolerances	Bundle weights
Possible to order by 1 mm	Possible to order by 0.1 mm, thickness above 70 mm on agreement, in grades except EN 10025	Flat steel and wide flat steel are produced in lengths 2–13 m, standard 6 and 12 m, lengths of flats in thickness 5.6 mm and above 40 mm to be agreed.	-0/+200 mm -0/+100 mm Other length tolerances on prior agreement	Standard 2–5 t Other bundle weights on prior agreement

STANDARD SIZE

Width (mm)	Thickness (mm)																		
	5	6	8	10	12	15	20	25	30	35	40	45	50	55	60	70	80	90	100
150				•	•	•	•	•	•	•	•	•	•	•	•	•			
160	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
170	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
180	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
190	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
220	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
230	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
240	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
250	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
280	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
320	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
350	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
380	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
400	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
420	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
450		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
480		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
500		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
520		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

• Standard sizes

• On agreement

THICKNESS DEVIATIONS

Nominal thickness (mm)		Permissible thickness deviation (mm) – Class A		Permissible thickness deviation (mm) – Class B	
from (inclusive)	to				
80	100	+3.0	-1.0	+3.7	-0.3
60	80	+1.6	-1.0	+2.3	-0.3
50	60	+1.2	-1.0	+1.9	-0.3
40	50	+1.1	-0.9	+1.7	-0.3
30	40	+1.1	-0.7	+1.5	-0.3
25	30	+1.0	-0.6	+1.3	-0.3
20	25	+0.9	-0.5	+1.1	-0.3
10	20	+0.8	-0.4	+0.9	-0.3
5	10	+0.6	-0.4	+0.7	-0.3

STRAIGHTNESS DEVIATIONS ACROSS WIDTH (CROOK)

max. $0.0025 \times l_1$
(for universal mill plate with normal straightness) max. 2.5 mm / 1 m

max. $0.00125 \times l_1$
(for universal mill plate with special straightness) max. 1.25 mm / 1 m

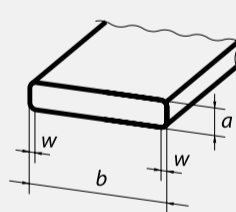
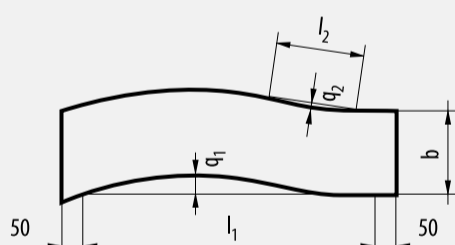
DEVIATION FROM STRAIGHTNESS ACROSS THICKNESS (FLATNESS)

max. $0.007 \times l$
(0.7 % of measured length, for wide flats with normal straightness) max. 7 mm / 1 m

max. $0.003 \times l$
(0.3 % of measured length, for wide flats with special straightness) max. 3 mm / 1 m

ANGULARITY (SEE FIG.)

Nominal thickness a (mm)			Deviations from angularity w (mm)		
$a \leq 13$	$13 < a \leq 18$	$a > 18$	2.0	3.0	3.5



DIMENSION STANDARDS

Flat steel

EN 10058, ČSN 42 55 22
(applicable only to 150 mm width)

Wide flat steel

DIN 59 200

DIMENSION TOLERANCES BY DIN 59 200

Width deviations

± 2 % of nominal width, maximum ± 10 mm

Others upon request on prior agreement

STEEL GRADES – BASIC GRADES PRODUCED

EN 10025-2	EN 10083-1, 2, 3	EN 10 084	Shipbuilding grades (according to standards)	ISO 4957	DIN 17350
S 235 JR+AR S 275 JR+AR S 355 JR+N S 355 JO+N S 355 J2+N	C 30, C 35, C 45, C 50, C 60, (also in modifications E and R) 25CrMo4, 41Cr4, 42CrMo4, 51CrV4, 27MnCrB5, 30MnB5	C 10 16MnCr55 20MnCr5	DNV GL Lloyd's Register Grade-A Grade-A36 Grade-D36	21MnCr5	31CrV3

TOOL STEEL – BASIC GRADES PRODUCED (OTHER STEEL GRADES ON PRIOR AGREEMENT)

45NiCrMo16	ekv. (1.2767)	37Cr5MoV	ekv. (19552)
90MnCrV8	ekv. (1.2842)	63Cr5MoV	ekv. (19569)
100MnCrW4	ekv. (1.2510)	X38CrMoV5-1	ekv. (1.2343)
60WCrV7	ekv. (1.2550)	56NiCrMoV7	ekv. (1.2714)

QUALITY

Quality management system

- Surface finishing – as per EN 10 163 – 2
- Quality assurance documents – as per EN 10 204 – 2.2, 3.1, 3.2
- The high quality of our products is guaranteed by the implemented ČSN EN ISO 9001/2000 quality control system with a certificate issued by TÜV NORD.

Product certificates

- CE, UKCA
- TAZÚS – Construction industry technical and test institute Prague
- ČD (Czech Railways) Certificate for supplies of railway material
- EPD
- Lloyd's Register
- DNV

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