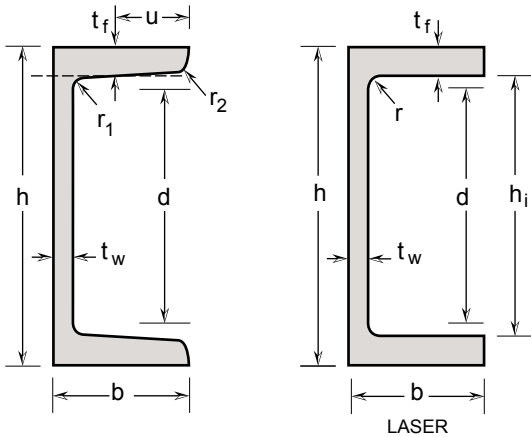


# UPN



## European standard channels

Dimensions: in accordance with DIN 1026-1: 2009  
Tolerances: EN 10279: 2000

## Europäische U-Stahl-Normalprofile

Abmessungen: gemäß DIN 1026-1: 2009  
Toleranzen: EN 10279: 2000

## Fers U normaux européens

Dimensions: conformes à la norme DIN 1026-1: 2009  
Tolérances: EN 10279: 2000

General properties / Generelle Eigenschaften / Valeurs generaux

Designation Bezeichnung Désignation	G kg/m	Dimensions Abmessungen Dimensions						Dimensions for detailing Konstruktionsmaße Dimensions de construction			
		h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r <sub>1</sub> mm	r <sub>2</sub> mm	A mm <sup>2</sup> x10 <sup>2</sup>	d mm	h <sub>i</sub> mm	u ± = 8%
UPN 20 x 10 x 3	0.90	20	10	3	3.5	3.5	2.5	1.14	6.00	-	5.0
UPN 30 x 15 x 4	1.80	30	15	4	4.5	4.5	2.5	2.28	12.10	-	7.5
UPN 30 x 33 x 5	4.45	30	33	5	7	7	3	5.63	2.00	-	16.5
UPN 40 x 20 x 3	1.87	40	20	3	3.5	3.3	3	2.37	26.80	-	10.0
UPN 40 x 20 x 4	2.47	40	20	4	4.5	4.5	3	3.13	22.00	-	10.0
UPN 40 x 35 x 5	5.06	40	35	5	7	7	3	6.41	12.00	-	17.5
UPN 50 x 25 x 5	3.94	50	25	5	6	5	3.5	4.92	25.70	-	12.5
UPN 50	5.70	50	38	5	7	7	3.5	7.12	21.00	-	19.0
UPN 60 x 30 x 6	5.17	60	30	6	6	6	3	6.46	35.50	-	15.0
UPN 65	7.22	65	42	5.5	7.5	7.5	4	9.03	34.00	-	21.0
UPN 80	8.80	80	45	6	8	8	4	11.00	47.00	-	22.5
UPN 80*	8.74	80	45	6	8	2	< 1	11.06	60.00	64.00	
UPN 100	10.80	100	50	6	8.5	8.5	4.5	13.50	64.00	-	25.0
UPN 100*	10.66	100	50	6	8.5	2	< 1	13.50	79.00	83.00	
UPN 120	13.60	120	55	7	9	9	4.5	17.00	82.00	-	27.5
UPN 120*	13.48	120	55	7	9	2	< 1	17.06	98.00	102.00	
UPN 140	16.32	140	60	7	10	10	5	20.40	98.00	-	30.0
UPN 140*	16.13	140	60	7	10	2	< 1	20.42	116.00	120.00	
UPN 160	19.20	160	65	7.5	10.5	10.5	5.5	24.00	115.00	-	32.5
UPN 160*	19.03	160	65	7.5	10.5	2	< 1	24.09	135.00	139.00	

Profiles are \* also available or + only available as laser fused with full penetration, non tapered, equivalent to hot rolled (r = laser seam).  
Profile sind \* auch bzw. + nur Lasergeschweisst mit Vollenbindung erhältlich, ohne Konizität, gleichwertig zu warm gewalzt (r = Laser Naht).  
Profils sont disponibles \* aussi ou + seulement soudé laser avec pénétration complète, non conique, équivalent au laminé à chaud (r = cordon laser).

## Stainless steel

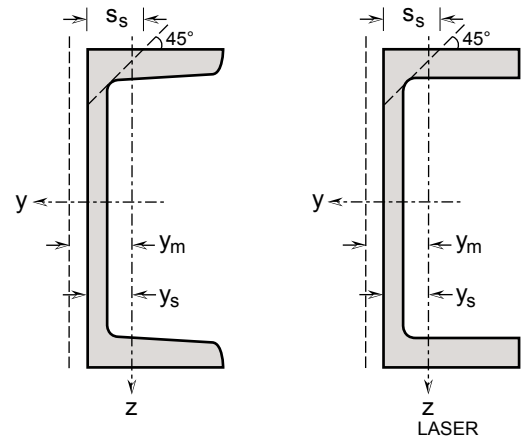
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

## Edelstahl Rostfrei

Güte nach EN 10088-3: 1D  
Oberflächenbeschaffenheit: gestrahlt und gebeizt

## Acier inoxydable

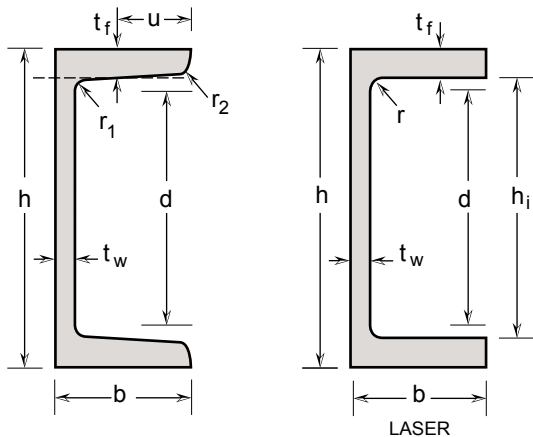
Nuance selon EN 10088-3: 1D  
Etat de surface: sablé et décapé



Structural properties / Statische Kennwerte / Valeurs statiques

Designation Bezeichnung Désignation	Strong axis y-y Starke Achse y-y Axe fort y-y					Weak axis z-z Schwache Achse z-z Axe faible z-z					S <sub>s</sub> mm	I <sub>t</sub> mm <sup>4</sup> x10 <sup>4</sup>	I <sub>w</sub> mm <sup>6</sup> x10 <sup>9</sup>	y <sub>s</sub> mm x10	y <sub>m</sub> mm x10
	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mm x10	A <sub>vz</sub> mm <sup>2</sup> x10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mm x10						
	UPN 20 x 10 x 3	0.56	0.56	0.76	0.70	0.67	0.10	0.15	0.26	0.29					
UPN 30 x 15 x 4	2.62	1.74	2.33	1.07	1.31	0.43	0.45	0.75	0.44	7.16	0.27	0.00	0.54	0.79	
UPN 30 x 33 x 5	6.62	4.41	5.90	1.08	1.85	5.68	3.01	4.56	1.00	11.14	1.29	0.00	1.41	2.38	
UPN 40 x 20 x 3	5.51	2.76	3.41	1.53	1.26	0.86	0.63	1.13	0.60	5.25	0.12	0.00	0.63	1.15	
UPN 40 x 20 x 4	6.89	3.44	4.41	1.48	1.71	1.10	0.83	1.47	0.59	7.16	0.32	0.00	0.67	1.12	
UPN 40 x 35 x 5	14.61	7.31	9.41	1.51	2.35	7.47	3.57	5.55	1.08	11.14	1.38	0.01	1.41	2.48	
UPN 50 x 25 x 5	16.80	6.73	8.52	1.85	2.52	2.49	1.48	2.79	0.71	14.60	0.59	0.01	0.81	1.34	
UPN 50	26.40	10.60	13.10	1.92	2.77	9.12	3.75	6.89	1.13	16.70	1.12	0.03	1.37	2.47	
UPN 60 x 30 x 6	31.60	10.50	13.30	2.21	3.54	4.51	2.16	4.13	0.84	15.80	0.89	0.02	0.91	1.50	
UPN 65	57.50	17.70	21.70	2.52	3.68	14.10	5.07	9.48	1.25	18.00	1.61	0.08	1.42	2.60	
UPN 80	106.00	26.50	32.30	3.10	4.90	19.40	6.36	12.08	1.33	19.40	2.20	0.17	1.45	2.67	
UPN 80*	106.97	26.74	32.17	3.11	4.50	21.80	7.44	13.28	1.40	15.18	2.09	0.20	1.57	2.97	
UPN 100	206.00	41.20	49.00	3.91	6.46	29.30	8.49	16.20	1.47	20.30	2.81	0.41	1.55	2.93	
UPN 100*	207.30	41.46	49.36	3.92	5.68	33.07	9.98	17.93	1.57	15.68	2.71	0.48	1.69	3.27	
UPN 120	364.00	60.70	72.60	4.62	8.80	43.20	11.10	21.26	1.59	22.20	4.15	0.90	1.60	3.03	
UPN 120*	367.96	61.33	73.33	4.64	7.97	49.15	13.08	23.67	1.70	17.18	3.99	1.04	1.74	3.38	
UPN 140	605.00	86.40	103.00	5.45	10.40	62.70	14.80	28.31	1.75	23.90	5.68	1.80	1.75	3.37	
UPN 140*	609.41	87.06	103.40	5.46	9.32	71.05	17.36	31.44	1.87	18.18	5.46	2.08	1.91	3.76	
UPN 160	925.00	116.00	138.00	6.21	12.60	85.30	18.30	35.15	1.89	25.30	7.39	3.26	1.84	3.56	
UPN 160*	932.63	116.58	138.50	6.22	11.44	97.42	21.67	39.21	2.01	19.18	7.09	3.76	2.00	3.98	

# UPN



## European standard channels

Dimensions: in accordance with DIN 1026-1: 2009  
Tolerances: EN 10279: 2000

## Europäische U-Stahl-Normalprofile

Abmessungen: gemäß DIN 1026-1: 2009  
Toleranzen: EN 10279: 2000

## Fers U normaux européens

Dimensions: conformes à la norme DIN 1026-1: 2009  
Tolérances: EN 10279: 2000

General properties / Generelle Eigenschaften / Valeurs generaux

Designation Bezeichnung Désignation		Dimensions Abmessungen Dimensions						Dimensions for detailing Konstruktionsmaße Dimensions de construction			
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r <sub>1</sub> mm	r <sub>2</sub> mm	A mm <sup>2</sup> x10 <sup>2</sup>	d mm	h <sub>i</sub> mm	u ± = 8%
UPN 180	22.40	180	70	8	11	11	5.5	28.00	133.00	-	35.0
UPN 180*	22.17	180	70	8	11	2	< 1	28.06	154.00	158.00	
UPN 200 <sup>+</sup>	25.53	200	75	8.5	11.5	2	< 1	32.31	173.00	177.00	
UPN 220 <sup>+</sup>	29.68	220	80	9	12.5	2	< 1	37.57	191.00	195.00	
UPN 240 <sup>+</sup>	33.53	240	85	9.5	13	2	< 1	42.45	210.00	214.00	
UPN 260 <sup>+</sup>	38.25	260	90	10	14	2	< 1	48.42	228.00	232.00	
UPN 280 <sup>+</sup>	42.28	280	95	10	15	2	< 1	53.52	246.00	250.00	
UPN 300 <sup>+</sup>	46.47	300	100	10	16	2	< 1	58.82	264.00	268.00	
UPN 320 <sup>+</sup>	59.18	320	100	14	17.5	2	< 1	74.92	281.00	285.00	
UPN 350 <sup>+</sup>	60.46	350	100	14	16	2	< 1	76.54	314.00	318.00	
UPN 380 <sup>+</sup>	62.91	380	102	13.5	16	2	< 1	79.64	344.00	348.00	
UPN 400 <sup>+</sup>	71.56	400	110	14	18	2	< 1	90.58	360.00	364.00	

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## Stainless steel

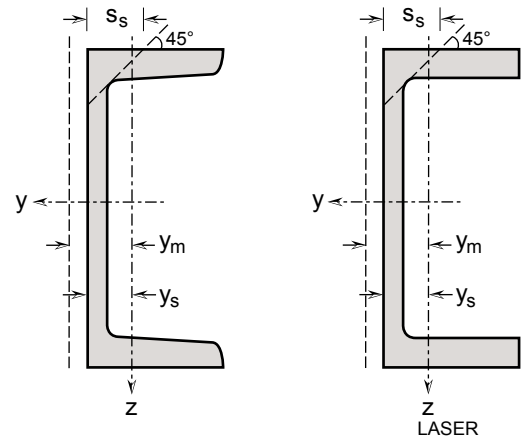
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

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Güte nach EN 10088-3: 1D  
Oberflächenbeschaffenheit: gestrahlt und gebeizt

## Acier inoxydable

Nuance selon EN 10088-3: 1D  
Etat de surface: sablé et décapé



Structural properties / Statische Kennwerte / Valeurs statiques

Designation Bezeichnung Désignation	Strong axis y-y Starke Achse y-y Axe fort y-y					Weak axis z-z Schwache Achse z-z Axe faible z-z					S <sub>s</sub> mm	I <sub>t</sub> mm <sup>4</sup> x10 <sup>4</sup>	I <sub>w</sub> mm <sup>6</sup> x10 <sup>9</sup>	y <sub>s</sub> mm x10	y <sub>m</sub> mm x10
	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el.y</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl.y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mm x10	A <sub>vz</sub> mm <sup>2</sup> x10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el.z</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl.z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mm x10						
	UPN 180	1350.00	150.00	179.00	6.95	15.10	114.00	22.40	43.05	2.02					
UPN 180*	1365.17	151.69	180.33	6.98	13.76	130.28	26.60	48.04	2.15	20.18	9.06	6.44	2.10	4.20	
UPN 200 <sup>+</sup>	1928.35	192.83	229.46	7.73	16.27	170.62	32.20	58.04	2.30	21.18	11.42	10.50	2.20	4.42	
UPN 220 <sup>+</sup>	2713.15	246.65	293.39	8.50	18.94	225.67	39.87	71.87	2.45	22.68	15.32	16.83	2.34	4.71	
UPN 240 <sup>+</sup>	3627.90	302.32	359.97	9.24	21.84	285.51	47.12	84.83	2.59	23.68	18.78	25.51	2.44	4.93	
UPN 260 <sup>+</sup>	4859.51	373.81	444.92	10.02	24.90	365.32	56.92	102.48	2.75	25.18	24.36	38.35	2.58	5.22	
UPN 280 <sup>+</sup>	6313.62	450.97	534.30	10.86	26.82	457.00	67.84	122.32	2.92	26.18	29.60	55.66	2.76	5.63	
UPN 300 <sup>+</sup>	8066.44	537.76	634.42	11.71	28.74	564.28	80.02	144.59	3.10	27.18	35.77	78.95	2.95	6.05	
UPN 320 <sup>+</sup>	10719.93	670.00	814.15	11.96	42.72	642.94	88.18	159.10	2.93	32.68	62.98	102.40	2.71	5.23	
UPN 350 <sup>+</sup>	12687.32	724.99	888.88	12.88	47.10	618.19	82.40	149.34	2.84	31.18	58.09	121.50	2.50	4.83	
UPN 380 <sup>+</sup>	15565.03	819.21	1003.37	13.98	49.48	667.24	86.53	156.47	2.89	30.68	57.75	156.40	2.49	4.90	
UPN 400 <sup>+</sup>	20089.49	1004.47	1220.72	14.89	53.86	921.06	112.31	202.22	3.19	33.18	77.02	236.10	2.80	5.56	