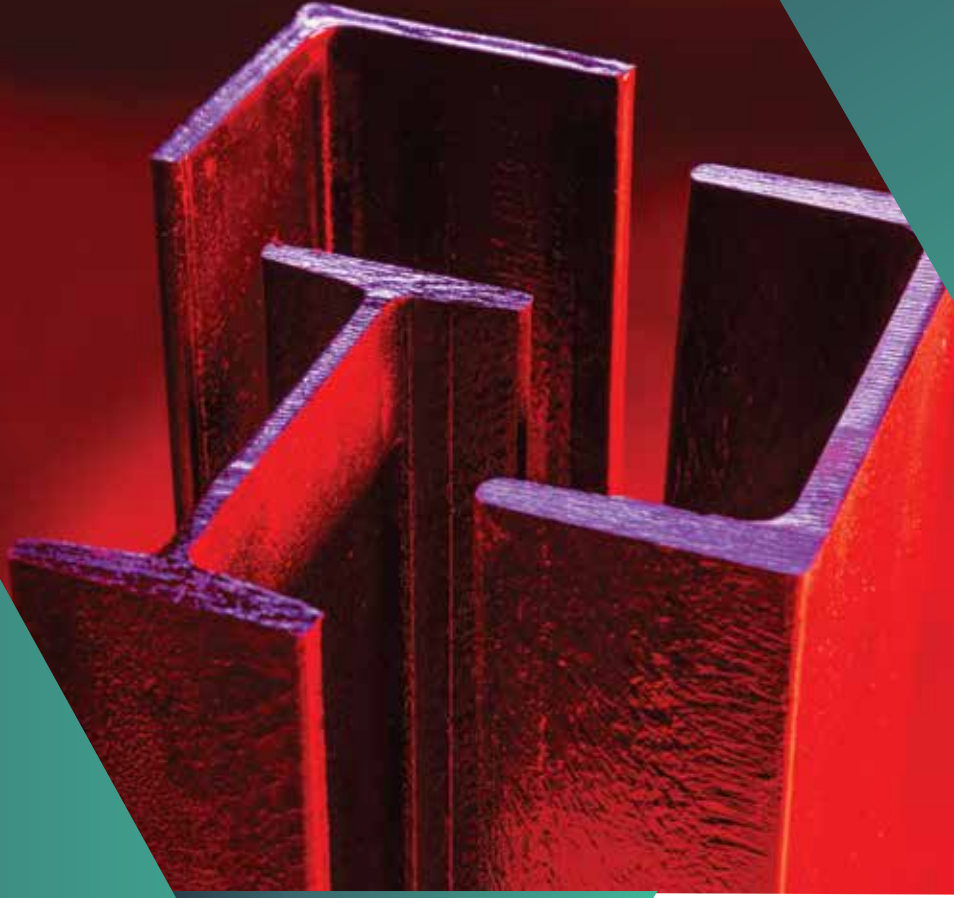




TOSYALI Demir Çelik



Tosyalı
Demir Çelik

www.tosyalidemircelik.com.tr

ENG





TOSYALI Demir Çelik

TOSYALI FOR A SUSTAINABLE LIFE

As Tosyali, we strengthen our position in the steel industry not only through product quality but also sustainability-focused efforts. By declaring "Tosyali for a Sustainable Life" we commit to green steel and decarbonization initiatives, demonstrating our dedication to environmental responsibilities.

Our responsible production and consumption approach includes the use of eco-friendly technologies, and the generation of energy from renewable sources ensures that our production maintains a low carbon footprint. At the same time, our production with a high scrap ratio contributes to the circular economy.

With the start of the Solar Power Plant (SPP) project across our facilities, we are proud of having the world's largest rooftop Solar Power Plant. Therefore, we not only reduce our energy costs but also contribute to making our steel production facilities among the cleanest and greenest in the world. Through SPP investments planned for self-consumption, we will soon be able to meet a significant portion of our electricity demand from renewable energy.

At our R&D Center, we focus on sustainability-driven projects, constantly reducing our carbon footprint through process improvements. In addition, we are pursuing the use of hydrogen as an alternative to fossil fuels in production. Through innovation and technological advancements, we pave the way for environmentally friendly methods in steel production.

With a high rate of waste recycling and a commitment to the principles of the circular economy, we strive to leave a sustainable world for future generations. At Tosyali, we take maximum effort to ensure a livable world for tomorrow. By taking steps today for a sustainable future, we play a pioneering role in the steel industry and maintain our determination to minimize environmental impacts.

GREEN STEEL



TOSYALI FOR A SUSTAINABLE LIFE

Steel is in life today, at the forefront of change and transformation tomorrow, and at the center of life in the future.

Leader in Green Steel for Today and Tomorrow

-  Türkiye's steel producer with the lowest carbon footprint
-  Partnership with world giants in circular economy
-  Sustainability-oriented R&D projects and investments
-  Leading the steel industry in the use of renewable energy sources



About Us

The rolling mill facility within Tosyalı Demir Çelik started production in 1994, and angle iron was added to the production matrices in 1995. With the investment made in 2001, the 2nd Rolling Mill facility was established, doubling the current capacity and IPN-UPN-IPE profile has also been added to the product range.

İskenderun Tosyalı Demir Çelik rolling mill facilities were established on a total area of 17,667 m², of which 13,000 m² is closed area. Our Tosyalı Demir Çelik facility has an annual production capacity of 550,000 tons.

The following standard and special sizes are produced in the following groups in Tosyalı Demir Çelik facilities:

From 30 mm to 120 mm / 2.8 mm to 13 mm wall thickness in the angle iron group,

From 50 mm to 160 mm in the UPN profile group,

From 80 mm to 160 mm in the IPN profile group,

From 80 mm to 160 mm in the IPE profile group.

These materials are used especially in energy transmission line, as well as all steel constructions, machinery manufacturing industries, and various structures.

Our Vision

To be the architect of a better future through green steel production.

Our Mission

To represent the best reference to the world as one of the most important and strategic iron and steel companies in Europe and Africa.



Environmentalist



World Company



Sustainability



Innovator



Experienced Staff



Efficiency Oriented



Industry Leading

Tosyalı Demir Çelik



TOSYALI

Demir Çelik

1994

Merchant Bars
production
started



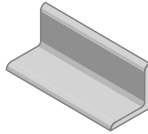
50+

Export to more
than 50 countries
across 3
continents



150+

More than 150 type of
products

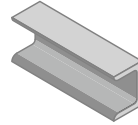


**RENEWABLE
ENERGY**

Eco-friendly production with
Solar Power Plant

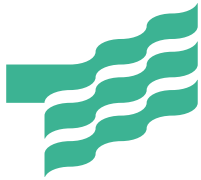
550.000

Annual Merchant
Bars Production
Capacity is 550.000
tons





INDUSTRY
INDUSTRY
QUALITY
QUALITY
INVESTMENT
INVESTMENT
PRODUCT RANGE
PRODUCT RANGE
PRODUCT
PRODUCT
MACHINE
MACHINE
ELECTRONICS
ELECTRONICS
AUTOMATION
AUTOMATION
HIGH TECHNOLOGY
HIGH TECHNOLOGY
INDUSTRY 4.0
INDUSTRY 4.0
IRON&STEEL
IRON&STEEL
SUSTAINABILITY
SUSTAINABILITY
GREEN STEEL
GREEN STEEL
DECARBONIZATION
DECARBONIZATION



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Equal Angles



Production Standards

TS 908
DIN 1028
EN 10056
ASTM A6

Steel Grade

St 37-2 / St 44-2 / St 52-3
S 235 JR / S 235 J0 / S 235 J2
S 275 JR / S 275 J0 / S 275 J2
S 355 JR / S 355 J0 / S 255 J2
ASTM A36 / ASTM A529 GR 50
ASTM A529 GR 55 / ASTM A572 GR 42
ASTM A572 GR 50 / ASTM A572 GR 55

Size	Unit Weight	Dimensions				Position of Axes					Surface		Section Properties								
	G (kg/m)	h=b	t (mm)	r1 (mm)	r2 (mm)	A (mm²) x10²	zy=ys (mm) x10	v (mm) x10	u1 (mm) x10	u2 (mm) x10	AL m² / m	AG m² / t	ly=lz mm⁴ x10⁴	Wely=Welz mm³ x10³	iy=iz mm x10	Iu m⁴ x10⁴	Iv mm⁴ x10⁴	Iu mm x10	Iv mm x10	Iyz mm⁴ x10⁴	
L 30 x 30 x 3	1,36	30	3	5	2,5	1,74	0,84	2,12	1,18	1,05	0,116	84,87	1,40	0,65	0,90	2,23	1,13	0,58	0,58	-0,83	
L 30 x 30 x 4	1,78	30	4	5	2,5	2,27	0,88	2,12	1,24	1,06	0,116	65,02	1,80	0,85	0,89	2,86	1,12	0,75	0,58	-1,05	
L 35 x 35 x 4	2,09	35	4	5	2,5	2,67	1,00	2,47	1,42	1,24	0,136	64,82	2,95	1,18	1,05	4,69	1,33	1,22	0,68	-1,73	
L 40 x 40 x 4	2,42	40	4	6	3,0	3,08	1,12	2,83	1,58	1,40	0,155	64,07	4,47	1,55	1,21	7,10	1,52	1,84	0,77	-2,63	
L 40 x 40 x 5	2,97	40	5	6	3,0	3,08	1,16	2,83	1,64	1,41	0,155	52,07	5,43	1,91	1,20	8,61	1,51	2,25	0,77	-3,18	
L 45 x 45 x 4,5	3,06	45	4,5	7	3,5	3,90	1,26	3,18	1,78	1,58	0,174	56,83	7,15	2,20	1,35	11,35	1,71	2,95	0,87	-4,20	
L 45 x 45 x 5	3,38	45	5	7	3,5	4,30	1,28	3,18	1,81	1,58	0,174	51,51	7,84	2,43	1,35	12,45	1,70	3,24	0,87	-4,60	
L 50 x 50 x 4	3,06	50	4	7	3,5	3,89	1,36	3,54	1,92	1,75	0,194	63,49	8,97	2,46	1,52	14,25	1,91	3,70	0,97	-5,28	
L 50 x 50 x 5	3,77	50	5	7	3,5	4,80	1,40	3,54	1,99	1,76	0,194	51,46	10,96	3,05	1,51	17,41	1,90	4,52	0,97	-6,45	
L 50 x 50 x 6	4,47	50	6	7	3,5	5,69	1,45	3,54	2,04	1,77	0,194	43,41	12,84	3,61	1,50	20,37	1,89	5,31	0,97	-7,53	
L 55 x 55 x 5	4,18	55	5	8	4,0	5,32	1,52	3,89	2,15	1,93	0,213	51,05	14,71	3,70	1,66	23,37	2,10	6,06	1,07	-8,66	
L 55 x 55 x 6	4,95	55	6	8	4,0	6,31	1,56	3,89	2,21	1,94	0,213	43,04	17,29	4,39	1,66	27,44	2,09	7,13	1,06	-10,16	
L 60 x 60 x 4	3,70	55	4	8	4,0	4,71	1,60	4,24	2,26	2,10	0,233	63,07	15,78	3,58	1,83	25,04	2,31	6,51	1,18	-9,26	
L 60 x 60 x 5	4,57	60	5	8	4,0	5,82	1,64	4,24	2,32	2,11	0,233	51,04	19,37	4,45	1,82	30,77	2,30	2,97	1,17	-11,40	
L 60 x 60 x 6	5,42	60	6	8	4,0	6,91	1,69	4,24	2,39	2,11	0,233	42,99	22,79	5,29	1,82	36,20	2,29	9,38	1,17	-13,41	
L 60 x 60 x 8	7,09	60	8	8	4,0	9,03	1,77	4,24	2,50	2,14	0,233	32,89	29,15	6,89	1,80	46,19	2,26	12,11	1,16	-17,04	
L 65 x 65 x 6	5,91	65	6	9	4,5	7,53	1,80	4,60	2,55	2,28	0,252	42,70	29,19	6,21	1,97	46,36	2,48	12,01	1,26	-17,17	
L 65 x 65 x 7	6,83	65	7	9	4,5	8,70	1,85	4,60	2,61	2,29	0,252	36,95	33,43	7,18	1,96	53,08	2,47	13,78	1,26	-19,65	
L 70 x 70 x 6	6,38	70	6	9	4,5	8,13	1,93	4,95	2,73	2,46	0,272	42,68	36,88	7,27	2,13	58,60	2,69	15,16	1,37	-21,72	
L 70 x 70 x 7	7,38	70	7	9	4,5	9,40	1,97	4,95	2,79	2,47	0,272	36,91	42,30	8,41	2,12	67,19	2,67	17,1	1,36	-24,89	
L 75 x 75 x 6	6,85	75	6	9	4,5	8,73	2,05	5,30	2,90	2,64	0,292	42,66	45,83	8,41	2,29	72,84	2,89	18,82	1,47	-27,01	
L 75 x 75 x 7	7,93	75	7	9	4,5	10,10	2,10	5,30	2,96	2,65	0,292	36,88	52,61	9,74	2,28	83,60	2,88	21,62	1,46	-30,99	
L 80 x 80 x 6	7,34	80	6	10	5,0	9,35	2,17	5,66	3,07	2,81	0,311	42,44	55,82	9,57	2,44	88,69	3,08	22,96	1,57	-32,87	
L 80 x 80 x 7	8,49	80	7	10	5,0	10,80	2,21	5,66	3,13	2,82	0,311	64,19	64,19	11,09	2,44	102,00	3,07	26,38	1,56	-37,81	
L 80 x 80 x 8	9,63	80	8	10	5,0	12,30	2,26	5,66	3,19	2,83	0,311	72,25	72,25	12,58	2,43	114,80	3,06	29,72	1,56	-42,52	
L 80 x 80 x 10	11,9	80	10	10	5,0	15,10	2,34	5,66	3,10	2,85	0,311	87,50	87,50	15,45	2,41	138,80	3,03	36,24	1,55	-51,27	
L 90 x 90 x 7	9,61	90	7	11	5,5	12,20	2,45	6,36	3,47	3,16	0,351	92,55	92,55	14,13	2,75	147,10	3,47	38,03	1,76	-54,52	
L 90 x 90 x 8	10,9	90	8	11	5,5	13,90	2,50	6,36	3,53	3,17	0,351	104,40	104,40	16,05	2,74	165,90	3,46	42,89	1,76	-61,50	
L 90 x 90 x 9	12,2	90	9	11	5,5	15,50	2,54	6,36	3,59	3,18	0,351	115,80	115,80	17,93	2,73	184,00	3,44	47,65	1,75	-68,19	
L 90 x 90 x 10	13,4	90	10	11	5,5	17,10	2,58	6,36	3,65	3,19	0,351	126,90	126,90	19,77	2,72	201,50	3,43	52,33	1,75	-74,79	
L 100 x 100 x 8	12,2	100	8	12	6,0	15,50	2,74	7,07	3,87	3,52	0,390	144,80	144,80	19,94	3,06	230,30	3,85	59,49	1,96	-85,35	
L 100 x 100 x 10	15,0	100	10	12	6,0	19,20	2,82	7,07	3,99	3,54	0,390	176,70	176,70	24,62	3,04	280,70	3,83	72,66	1,95	-104,00	
L 100 x 100 x 12	17,8	100	12	12	6,0	22,70	2,90	7,07	4,11	3,57	0,390	206,70	206,70	29,12	3,02	327,90	3,80	85,44	1,94	-121,30	
L 110 x 110 x 10	16,6	110	10	13	6,5	21,20	3,06	7,78	4,33	3,88	0,429	238,00	238,00	29,99	3,35	378,20	4,23	97,74	2,15	-140,20	
L 110 x 110 x 12	19,7	110	12	13	6,5	25,10	3,15	7,78	4,45	3,91	0,429	279,10	279,10	35,54	3,33	443,20	4,20	115,00	2,14	-164,10	
L 120 x 120 x 10	18,2	120	10	13	6,5	23,20	3,31	8,49	4,69	4,24	0,469	312,90	312,90	36,03	3,67	497,60	4,63	128,30	2,35	-184,60	
L 120 x 120 x 11	19,9	120	11	13	6,5	25,40	3,36	8,49	4,75	4,25	0,469	340,60	340,60	39,41	3,66	541,50	4,62	139,80	2,35	-200,90	
L 120 x 120 x 12	21,6	120	12	13	6,5	27,50	3,40	8,49	4,80	4,26	0,469	367,70	367,70	42,73	3,65	584,30	4,61	151,10	2,34	-216,60	
L 120 x 120 x 13	23,3	120	13	13	6,5	29,70	3,44	8,49	4,86	4,28	0,469	394,00	394,00	46,01	3,64	625,80	4,59	162,20	2,34	-231,80	

American Sizes & Units Weights of Equal Angles

Size		Thickness								
inch	→	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	
inch	mm	3,17 mm	4,76 mm	6,35 mm	7,93 mm	9,52 mm	11,10 mm	12,70 mm	15,87 mm	
3/4*3/4*	19,05	0,9 kg/mt								
1*1*	25,04	1,2 kg/mt	1,8 kg/mt	2,2 kg/mt						
1 1/4* 1 1/4*	31,75	1,5 kg/mt	2,2 kg/mt	2,8 kg/mt						
1 1/2* 1 1/2*	38,1	1,8 kg/mt	2,7 kg/mt	3,4 kg/mt						
1 3/4* 1 3/4*	44,45	2,1 kg/mt	3,1 kg/mt	4,1 kg/mt						
2*2* 1/8"	50,8	2,4 kg/mt	3,6 kg/mt	4,7 kg/mt	5,8 kg/mt	7,0 kg/mt				
2 1/2* 2 1/2*	63,5		4,6 kg/mt	6,1 kg/mt	7,4 kg/mt	8,7 kg/mt		11,4 kg/mt		
3* 3*	76,2		5,5 kg/mt	7,3 kg/mt	9,1 kg/mt	10,7 kg/mt	12,4 kg/mt	14,0 kg/mt		
3 1/2* 3 1/2*	88,9			8,6 kg/mt	10,7 kg/mt	12,6 kg/mt	14,6 kg/mt	16,5 kg/mt		
4* 4*	101,6			9,8 kg/mt	1,2 kg/mt	14,6 kg/mt	16,8 kg/mt	19,0 kg/mt	23,4 kg/mt	

*As per our customer's request-tailor made.

European Standard Channels (UPN)



Production Standards

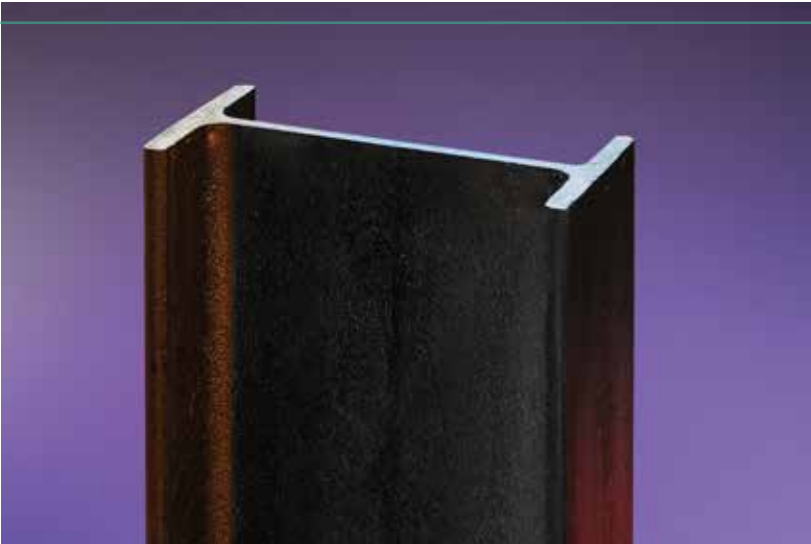
TS 912
DIN 1026
EN 10279

Steel Grade

St 37-2 / St 44-2 / St 52-3
S 235 JR / S 235 J0 / S 235 J2
S 275 JR / S 275 J0 / S 275 J2
S 355 JR / S 355 J0 / S 255 J2
ASTM A36 / ASTM A529 GR 50
ASTM A529 GR 55 / ASTM A572 GR 42
ASTM A572 GR 50 / ASTM A572 GR 55

Size	Unit Weight	Dimensions							Surface			Strong Axis y-y					Weal Axis z-z				Other				
	G (kg/m)	h (mm)	b (mm)	tw (mm)	tf (mm)	r1 (mm)	r2 (mm)	d (mm)	A mm ² x102	AL (m ² /m)	AG m ² / t	Iy mm ⁴ x104	Wely mm ³ x103	Wely mm ³ x103	Iy mm x10	Avz mm ² x102	Iz mm ⁴ x104	Welz mm ³ x103	Wplz mm ³ x103	Iz mm x10	Ss mm	It mm ⁴ x104	Iw mm ⁵ x109	ys mm x10	ym mm x10
UPN 50x25	3,86	50	25	5,0	6,0	6,0	3,0	25,7	4,9	0,181	48,22	16,8	6,73	8,52	1,85	2,52	2,49	1,48	2,84	0,71	14,6	0,59	0,01	0,81	1,34
UPN 65	7,09	65	42	5,5	7,5	7,5	4,0	34	9,03	0,273	39,57	57,5	17,7	21,7	2,52	3,68	14,1	5,07	9,38	1,25	18,0	1,61	0,08	1,42	2,60
UPN 80	8,64	80	45	6,0	8,0	8,0	4,0	47	11,0	0,312	37,10	106	26,5	32,3	3,10	4,90	19,4	6,36	11,9	1,33	19,4	2,20	0,18	1,45	2,67
UPN 100	10,6	100	50	6,0	8,5	8,5	4,5	64	13,5	0,372	35,10	206	41,2	49,0	3,91	6,46	29,3	8,49	16,2	1,47	20,3	2,81	0,41	1,55	2,93
UPN 120	13,4	120	55	7,0	9,0	9,0	4,5	82	17,0	0,434	32,52	364	60,7	72,6	4,62	8,80	43,2	11,1	21,2	1,59	22,2	4,15	0,90	1,60	3,03
UPN 140	16,0	140	60	7,0	10,0	10,0	5,0	98	20,4	0,489	30,54	605	86,4	103	5,45	10,40	62,7	14,8	28,3	1,75	23,9	5,68	1,80	1,75	3,37
UPN 160	18,8	160	65	7,5	10,5	10,5	5,5	115	24,0	0,546	28,98	925	116	138	6,21	12,60	85,3	18,3	35,2	1,89	25,3	7,39	3,26	1,84	3,56

Taper Flange I Sections (IPN)



Production Standards

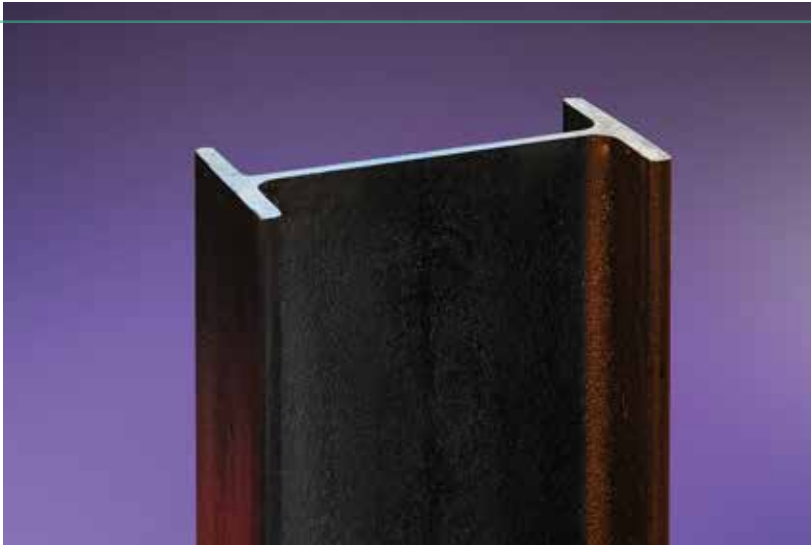
TS 910
DIN 1025
EN 10024

Steel Grade

St 37-2 / St 44-2 / St 52-3
S 235 JR / S 235 J0 / S 235 J2
S 275 JR / S 275 J0 / S 275 J2
S 355 JR / S 355 J0 / S 255 J2
ASTM A36 / ASTM A529 GR 50
ASTM A529 GR 55 / ASTM A572 GR 42
ASTM A572 GR 50 / ASTM A572 GR 55

Size	Unit Weight	Dimensions							Surface			Strong Axis y-y					Weak Axis z-z				Other		
	G (kg/m)	h (mm)	b (mm)	tw (mm)	tf (mm)	r1 (mm)	r2 (mm)	d (mm)	A mm ² x102	AL (m ² /m)	AG m ² / t	Iy mm ⁴ x104	Wely mm ³ x103	Wply mm ³ x103	Iy mm ⁴ x10	Avz mm ² x102	Iz mm ⁴ x104	Welz mm ³ x103	Wplz mm ³ x103	Iz mm ⁴ x10	Ss mm	It mm ⁴ x104	Iw mm ⁶ x109
IPN 80	5,94	80	42	3,9	5,9	3,9	2,3	59	7,57	0,304	51,09	77,8	19,5	22,8	3,20	3,41	6,29	3,00	5,00	0,91	21,6	0,87	0,09
IPN 100	8,34	100	50	4,5	6,8	4,5	2,7	75,7	10,6	0,370	44,47	171	34,2	39,8	4,01	4,85	12,2	4,88	8,10	1,07	25,0	1,60	0,27
IPN 120	11,1	120	58	5,1	7,7	5,1	3,1	92,4	14,2	0,439	39,38	328	54,7	63,6	4,81	6,63	21,5	7,41	12,4	1,23	28,4	2,71	0,69
IPN 140	14,3	140	66	5,7	8,6	5,7	3,4	109,1	18,2	0,502	34,94	573	81,9	95,4	5,61	8,65	35,2	10,7	17,9	1,40	31,8	4,32	1,54
IPN 160	17,9	160	74	6,3	9,5	6,3	3,8	125,8	22,8	0,575	32,13	935	117	136	6,40	10,83	54,7	14,8	24,9	1,55	35,2	6,57	3,14

Parallel Flange I Sections (IPE)



Production Standards

TS 910-5
DIN 1025-5
EN 10034

Steel Grade

St 37-2 / St 44-2 / St 52-3
S 235 JR / S 235 JO / S 235 J2
S 275 JR / S 275 JO / S 275 J2
S 355 JR / S 355 JO / S 255 J2
ASTM A36 / ASTM A529 GR 50
ASTM A529 GR 55 / ASTM A572 GR 42
ASTM A572 GR 50 / ASTM A572 GR 55

Size	Unit Weight	Dimensions							Surface			Strong Axis y-y					Weak Axis z-z					Other		
	G	h	b	tw	tf	r	hi	d	A	AL	AG	Iy	Wely	Wply	Iy	Avz	Iz	Welz	Wplz	Iz	Ss	It	Iw	
	(kg/m)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	mm ² x102	(m ² /m)	m ² / t	mm ⁴ x104	mm ³ x103	mm ³ x103	mm x10	mm ² x102	mm ⁴ x104	mm ³ x103	mm ³ x103	mm x10	mm	mm ⁴ x104	mm ⁶ x109	
IPE 80	6,0	80	46	3,8	5,2	5,0	69,6	59,6	7,64	0,328	54,65	80,1	20	23,2	3,24	3,58	8,49	3,69	5,8	1,05	20,1	0,70	0,12	
IPE 100	8,4	117	64	3,8	4,8	7,0	107,4	93,4	10,7	0,470	56,26	244	41,7	47,6	4,79	5,36	21,1	6,59	10,4	1,41	21,6	0,95	0,66	
IPE AA 120	8,4	117	64	3,8	8,0	8,0	4,0	47	11,0	0,312	37,10	106	26,5	32,3	3,10	4,90	19,4	6,36	11,9	1,33	19,4	2,20	0,18	
IPE A 120	8,7	117,6	64	3,8	5,1	7,0	107,4	93,4	11,0	0,472	54,47	257	43,8	49,9	4,83	6,46	22,4	7,00	11,0	1,42	22,2	1,04	0,71	
IPE 120	10,4	120	64	4,4	6,3	7,0	107,4	93,4	13,2	0,475	45,82	318	53,0	60,7	4,90	6,31	27,7	8,65	13,6	1,45	25,2	1,74	0,89	
IPE AA 140	10,1	136,6	73	3,8	5,2	7,0	126,2	112,2	12,8	0,546	54,26	407	59,7	67,6	5,64	6,14	33,8	9,27	14,5	1,63	22,4	1,19	1,46	
IPE A 140	10,5	137,4	73	3,8	5,6	7,0	126,2	112,2	13,4	0,547	52,05	435	63,3	71,6	5,70	6,21	36,4	10,0	15,5	1,65	23,2	1,36	1,58	
IPE 140	12,9	140	73	4,7	6,9	7,0	126,2	112,2	16,4	0,551	42,70	541	77,3	88,3	5,74	7,64	44,9	12,3	19,3	1,65	26,7	2,45	1,98	
IPE AA 160	12,1	156,4	82	4,0	5,6	7,0	145,2	131,2	15,4	0,621	50,40	646	82,6	93,3	6,47	7,24	51,6	12,6	19,6	1,83	23,4	1,57	2,93	
IPE A 160	12,7	157	82	4,0	5,9	9,0	145,2	127,2	16,2	0,619	48,70	689	87,8	99,1	6,53	7,80	54,4	13,3	20,7	1,83	26,3	1,96	3,09	
IPE 160	15,8	160	82	5,0	7,4	9,0	145,2	127,2	20,1	0,623	39,47	689	109	124	6,58	9,66	68,3	16,7	26,1	1,84	30,3	3,60	3,96	

U-1 Packaging

TOSYALI DEMİR ÇELİK PACKAGING LIST FOR UNIT ONE

Size	Unit Weight	6 METERS						12 METERS					
		Width		Height	Pieces per Bundle	Theoric Bundle(kg)	Six Meters Weight (kg)	Width		Height	Pieces per Bundle	Theoric Bundle(kg)	Twelve Meters Weight (kg)
L 30x30x2,8	1,28	9	x	23	383	2.937	7,7	9	x	11	179	2.745	15,3
L 30x30x3	1,36	9	x	22	366	2.993	8,2	9	x	11	179	2.928	16,4
L 30x30x3,5	1,57	9	x	19	315	2.973	9,4	9	x	9	145	2.737	18,9
L 30x30x4	1,78	9	x	17	281	2.999	10,7	9	x	8	128	2.733	21,3
L 30x30x5	2,18	9	x	13	213	2.786	13,1	9	x	7	111	2.904	26,2
L 35x35x3	1,60	8	x	21	308	2.955	9,6	8	x	10	143	2.744	19,2
L 35x35x3,5	1,85	8	x	18	263	2.916	11,1	8	x	9	128	2.839	22,2
L 35x35x4	2,09	8	x	16	233	2.926	12,6	8	x	8	113	2.838	25,1
L 40x40x3	1,84	7	x	21	267	2.954	11,1	7	x	10	124	2.744	22,1
L 40x40x3,5	2,13	7	x	18	228	2.917	12,8	7	x	9	111	2.840	25,6
L 40x40x3,8	2,30	7	x	17	215	2.971	13,8	7	x	8	98	2.708	27,6
L 40x40x4	2,42	7	x	16	202	2.929	14,5	7	x	8	98	2.842	29,0
L 40x40x5	2,97	7	x	13	163	2.909	17,8	7	x	6	72	2.570	35,7
L 44x44x3,2	2,10	7	x	18	228	2.873	12,6	7	x	9	111	2.797	25,2
L 44x44x4,8	3,10	7	x	12	150	2.790	18,6	7	x	6	72	2.678	37,2
L 45x45x3	2,09	6	x	22	237	2.972	12,5	6	x	11	116	2.909	25,1
L 45x45x4	2,74	6	x	17	182	2.994	16,5	6	x	8	83	2.731	32,9
L 45x45x5	3,38	6	x	13	138	2.797	20,3	6	x	7	72	2.919	40,5
L 50x50x4	3,06	6	x	15	160	2.934	18,3	6	x	7	72	2.640	36,7
L 50x50x4,8	3,63	6	x	12	127	2.765	21,8	6	x	6	61	2.656	43,5
L 50x50x5	3,77	6	x	12	127	2.873	22,6	6	x	6	61	2.760	45,2
L 50x50x5,5	4,12	6	x	11	116	2.868	24,7	6	x	5	50	2.473	49,5
L 50x50x6	4,47	6	x	10	105	2.815	26,8	6	x	5	50	2.681	53,6
L 50x50x7	5,15	6	x	9	94	2.906	30,9	6	x	4	39	2.411	61,8
L 51x51x3,2	2,40	6	x	19	204	2.938	14,4	6	x	9	94	2.707	28,8
L 51x51x4,8	3,60	6	x	13	138	2.981	21,6	6	x	6	61	2.635	43,2
L 55x55x4	3,38	5	x	16	140	2.841	20,3	5	x	8	68	2.760	40,6
L 55x55x5	4,18	5	x	13	113	2.831	25,1	5	x	7	59	2.956	50,1
L 60x60x3,8	3,52	5	x	16	140	2.957	21,1	5	x	8	68	2.872	42,2
L 60x60x4	3,70	5	x	15	131	2.905	22,2	5	x	7	59	2.617	44,4
L 60x60x4,5	4,13	5	x	13	113	2.803	24,8	5	x	7	59	2.927	49,6
L 60x60x5	4,57	5	x	12	104	2.850	27,4	5	x	6	50	2.741	54,8
L 60x60x5,8	5,25	5	x	11	95	2.994	31,5	5	x	5	41	2.584	63,0
L 60x60x6	5,42	5	x	10	86	2.798	32,5	5	x	5	41	2.668	65,1
L 60x60x7	6,26	5	x	9	77	2.894	37,6	5	x	4	32	2.405	75,2
L 60x60x8	7,09	5	x	8	68	2.893	42,5	5	x	4	32	2.723	85,1
L 64x64x4,8	4,60	4	x	15	102	2.815	27,6	4	x	8	53	2.926	55,2
L 64x64x6,4	6,10	4	x	12	81	2.965	36,6	4	x	6	39	2.855	73,2
L 65x65x4	4,03	4	x	17	116	2.801	24,2	4	x	9	60	2.898	48,3
L 65x65x5	4,97	4	x	14	95	2.835	29,8	4	x	7	46	2.746	59,7
L 65x65x6	5,91	4	x	12	81	2.872	35,5	4	x	6	39	2.765	70,9
L 65x65x7	6,83	4	x	10	67	2.744	41,0	4	x	5	32	2.622	81,9
L 65x65x8	7,71	4	x	9	60	2.776	46,3	4	x	5	32	2.961	92,5
L 70x70x5	5,37	4	x	13	88	2.834	32,2	4	x	7	46	2.963	64,4
L 70x70x6	6,38	4	x	11	74	2.833	38,3	4	x	6	39	2.986	76,6
L 70x70x7	7,38	4	x	10	67	2.966	44,3	4	x	5	32	2.833	88,5
L 70x70x8	8,36	4	x	8	53	2.658	50,1	4	x	4	25	2.507	100,3
L 75x75x5	5,78	4	x	12	81	2.807	34,7	4	x	6	39	2.703	69,3
L 75x75x6	6,87	4	x	10	67	2.761	41,2	4	x	5	32	2.637	82,4
L 75x75x7	7,94	4	x	9	60	2.859	47,7	4	x	4	25	2.383	95,3
L 75x75x8	9,00	4	x	8	53	2.863	54,0	4	x	4	25	2.701	108,0
L 75x75x10	11,07	4	x	6	39	2.591	66,4	4	x	3	18	2.392	132,9
L 76x76x4,8	5,50	4	x	13	88	2.904	33,0	4	x	6	39	2.574	66,0
L 76x76x6,4	7,30	4	x	10	67	2.935	43,8	4	x	5	32	2.803	87,6
L 76x76x7,9	9,10	4	x	8	53	2.894	54,6	4	x	4	25	2.730	109,2
L 80x80x6	7,34	3	x	14	68	2.994	44,0	3	x	7	33	2.906	88,1
L 80x80x7	8,49	3	x	12	58	2.955	51,0	3	x	6	28	2.853	101,9
L 80x80x8	9,63	3	x	10	48	2.773	57,8	3	x	5	23	2.658	115,6
L 80x80x10	11,86	3	x	8	38	2.704	71,2	3	x	4	18	2.562	142,3
UPN 50	3,86	7	x	8	112	2.594	23,2	7	x	4	56	2.594	46,3
UPN 65	7,09	5	x	6	60	2.552	42,5	5	x	3	30	2.552	85,1
UPN 80	8,64	4	x	6	48	2.488	51,8	4	x	3	24	2.488	103,7
IPN 80	5,94	4	x	7	56	1.996	35,6	4	x	5	40	2.851	71,3
IPE 80	6,00	4	x	7	56	2.016	36,0	4	x	5	40	2.880	72,0



*Sizes marked in green highlight the equal angles with American inches.

TOSYALI DEMİR ÇELİK PACKAGING LIST FOR UNIT TWO

Size	Unit Weight	6 METERS						12 METERS					
		Width		Height	Pieces per Bundle	Theoric Bundle(kg)	Six Meters Weight (kg)	Width		Height	Pieces per Bundle	Theoric Bundle(kg)	Twelve Meters Weight (kg)
L 89x89x7,9	10,70	3	x	9	43	2.761	64,2	3	x	5	23	2.953	128,4
L 89x89x9,5	12,60	3	x	8	38	2.873	75,6	3	x	4	18	2.722	151,2
L 90x90x7	9,61	3	x	10	48	2.767	57,6	3	x	5	23	2.652	115,3
L 90x90x8	10,90	3	x	9	43	2.813	65,4	3	x	4	18	2.355	130,8
L 90x90x9	12,18	3	x	8	38	2.778	73,1	3	x	4	18	2.632	146,2
L 90x90x10	13,45	3	x	7	33	2.663	80,7	3	x	4	18	2.905	161,4
L 100x100x9	13,62	3	x	7	33	2.696	81,7	3	x	4	18	2.941	163,4
L 100x100x10	15,04	3	x	7	33	2.977	90,2	3	x	3	13	2.346	180,4
L 100x100x12	17,83	3	x	6	28	2.996	107,0	3	x	3	13	2.782	214,0
L 102x102x9,5	14,60	3	x	7	33	2.891	87,6	3	x	3	13	2.278	175,2
L 110x110x8	13,44	3	x	7	33	2.660	80,6	2	x	6	17	2.741	161,2
L 110x110x9	15,03	3	x	7	33	2.976	90,2	2	x	5	14	2.525	180,3
L 110x110x10	16,61	3	x	6	28	2.790	99,6	2	x	5	14	2.790	199,3
L 110x110x11	18,17	3	x	5	23	2.507	109,0	2	x	4	11	2.398	218,0
L 110x110x12	19,74	3	x	5	23	2.724	118,4	2	x	4	11	2.605	236,8
L 120x120x10,5	19,06	2	x	9	26	2.973	114,4	2	x	4	11	2.516	228,7
L 120x120x11	19,92	2	x	8	23	2.748	119,5	2	x	4	11	2.629	239,0
L 120x120x12	21,62	2	x	8	23	2.984	129,7	2	x	4	11	2.854	259,4
L 120x120x13	23,31	2	x	7	20	2.797	139,8	2	x	3	8	2.238	279,7
UPN 100	10,60	4	x	5	40	2.544	63,6	4	x	2	16	2.035	127,2
UPN 120	13,40	3	x	6	36	2.894	80,4	3	x	3	18	2.894	160,8
UPN 140	16,00	3	x	5	30	2.880	96,0	2	x	3	12	2.304	192,0
UPN 160	18,80	2	x	5	20	2.256	112,8	2	x	3	12	2.707	225,6
IPN 100	8,34	4	x	7	56	2.802	50,0	4	x	3	24	2.402	100,1
IPN 120	11,10	3	x	6	36	2.398	66,6	3	x	3	18	2.398	133,2
IPN 140	14,30	3	x	5	30	2.574	85,8	2	x	4	16	2.746	171,6
IPN 160	17,90	2	x	5	20	2.148	107,4	2	x	3	12	2.578	214,8
IPE 100	8,10	4	x	7	56	2.722	48,6	4	x	3	24	2.333	97,2
IPE 120	10,40	3	x	6	36	2.246	62,4	3	x	4	24	2.995	124,8
IPE A 120	8,70	3	x	6	36	1.879	52,2	3	x	4	24	2.506	104,4
IPE AA 120	8,40	4	x	7	56	2.822	50,4	3	x	4	24	2.419	100,8
IPE 140	12,90	3	x	5	30	2.322	77,4	3	x	3	18	2.786	154,8
IPE A 140	10,50	3	x	5	30	1.890	63,0	3	x	3	18	2.268	126,0
IPE AA 140	10,10	3	x	5	30	1.818	60,6	3	x	4	24	2.909	121,2
IPE 160	15,80	2	x	5	20	1.896	94,8	2	x	3	12	2.275	189,6
IPE A 160	12,70	2	x	5	20	1.524	76,2	2	x	4	16	2.438	152,4
IPE AA 160	12,10	2	x	5	20	1.452	72,6	2	x	4	16	2.323	145,2

Size	Unit Weight	10 METERS					
		Width		Height	Pieces per Bundle	Theoric Bundle(kg)	Ten Meters Weight (kg)
UPN 100	10,60	4	x	3	24	2.544	106,0
UPN 120	13,40	3	x	3	18	2.412	134,0
IPN 100	8,34	4	x	4	32	2.669	83,4
IPN 120	11,10	3	x	4	24	2.664	111,0



*Sizes marked in green highlight the equal angles with American inches.

Quality Control and Tests



Quality Control

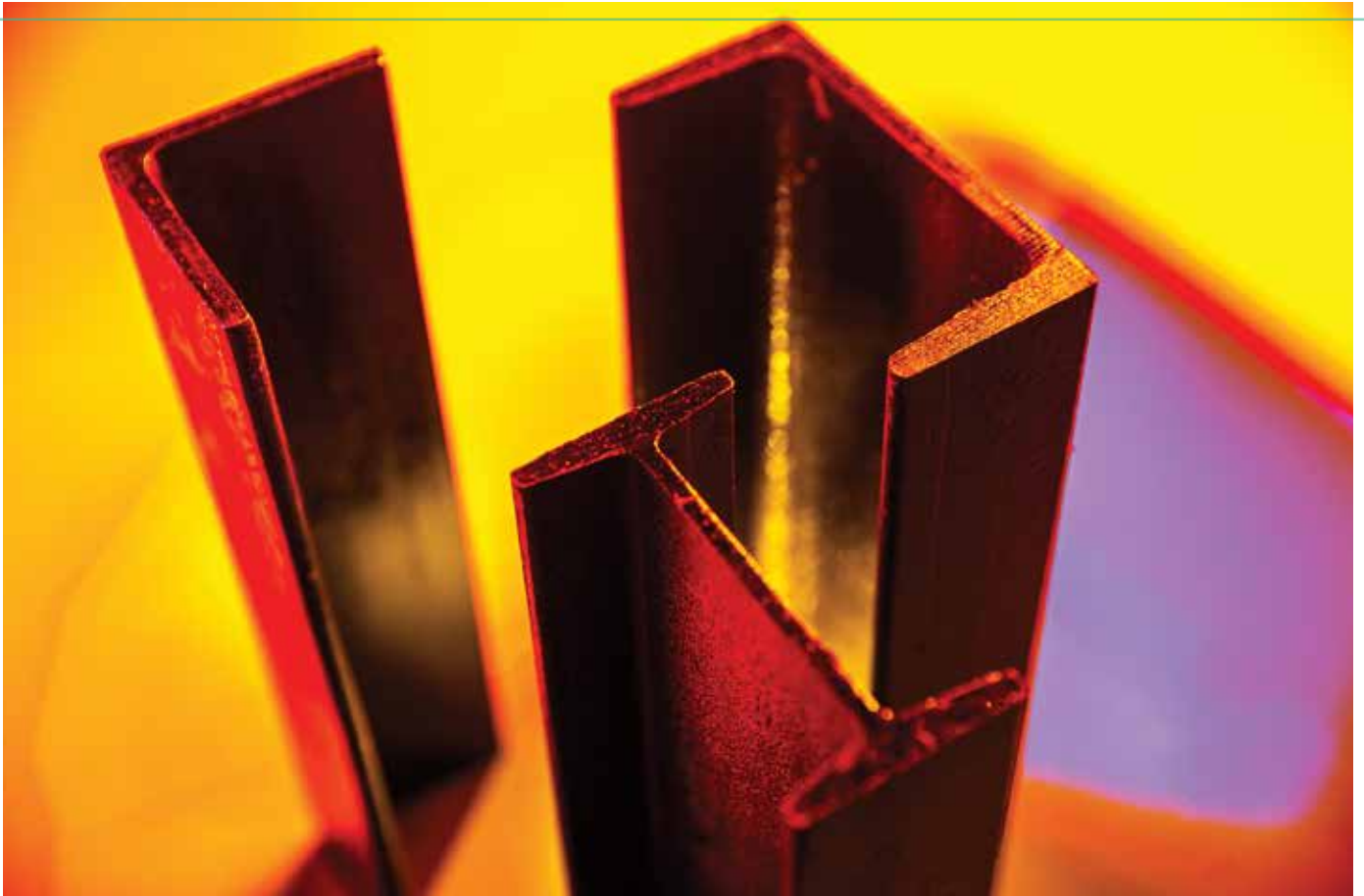
Quality control system in Tosyalı is an ongoing process starts with the purchase of raw material and continues until the final product is delivered to the customer. Our philosophy is to produce an accurate product at first attempt which puts a responsibility for obtaining of desired quality to every employee in our organization.

Mechanical Tests

- ▤ Tensile Test
- ▤ Bending Test
- ▤ Charpy Impact Test
- ▤ Microstructure Test

Chemical Test

- ▤ Chemical analysis by spectrometer



Environmental Product Declaration

In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

Profile

from
Tosyalı Demir Çelik



PROGRAMME
The International EPD System
www.epdcentral.com

PROGRAMME OPERATOR
EPD International AG

LOCAL OPERATOR
ETG Turkey

EPD REGISTRATION N°
S-P-04132

PUBLICATION DATE
2022/09/01

VALIDITY DATE
2023/07/01

the EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at: www.epdcentral.com

TOSYALI Demir Çelik

Environmental Product Declaration

In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

Equal Angles

from
Tosyalı Demir Çelik



PROGRAMME
The International EPD System
www.epdcentral.com

PROGRAMME OPERATOR
EPD International AG

LOCAL OPERATOR
ETG Turkey

EPD REGISTRATION N°
S-P-04138

PUBLICATION DATE
2022/09/01

VALIDITY DATE
2023/07/01

the EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at: www.epdcentral.com

TOSYALI Demir Çelik

SZUTEST

Certificate of Conformity of the Factory Production Control

2195-CPR-1730301

In compliance with Regulation (EU) 2017/1369 of the European Parliament and of the Council of 5 March 2017 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

Hot Rolled Products of Structural Steel

(intended for performance for the characteristics described in Annex 1 which is an inseparable part of this certificate)

produced by the manufacturer:

TOSYALI DEMİR ÇELİK SANAYİ A.Ş.

Organize San. Böl. Necati Örsen Cad. No:12, 31200, Sarıseki, İskenderun / Hatay - Turkey

and produced in the manufacturing plant:

TOSYALI DEMİR ÇELİK SANAYİ A.Ş.

Organize Sanayi Bölgesi 31200, Sarıseki, İskenderun / Hatay - Turkey

This certificate attests that all products concerning the assessment and verification of conformity of performance described in Annex 1 of the standard(s):

EN 10025-1: 2004

under system 2+ are applied and that the factory production control is assessed to be in conformity with the applicable requirements. This certificate was first issued on 23.10.2017, renewed on 05.10.2024 and will remain valid as long as neither the harmonized standard, the construction product, the assessment and verification of conformity of performance methods nor the manufacturing conditions at the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through direct surveillance audit and is released after each surveillance audit, the period validity date is renewed every year after the surveillance audit.

Validity Date : 30.10.2027
Period Validity Date : 30.10.2025

TÜRKÜL
Deniz ŞENAY
Deputy General Manager

FR. CPR. 24.8.04

SZUTEST ÜNİVERSİTE DEĞERLENDİRME A.Ş.
Nispetiye Mahallesi Akatlar 3. Kat, Akatlar, Beşiktaş, İstanbul 34398
www.szutest.com.tr

SZUTEST

Certificate of Conformity of the Factory Production Control

2195-CPR-1730301

Annex 1

Intended uses:
To be used in metal structures or in composite metal and concrete structures.

Controlled Performance Characteristics:
- Dimension and Shape Tolerances,
- Yield Strength,
- Elongation,
- Tensile Strength,
- Impact Resistance,
- Weldability.

Certification scope:

Steel grades according to EN 10025-2	The products in the form of:	Dimensions(mm)
S235JR	Hot rolled equal leg angle steels (EN 10056)	a x b x t = Nom. L 30 x 30 x 3 up to L 120 x 13 x 3
S235J0	Hot rolled steel I and H sections (EN 10054)	b x h x t from 80 x 40 up to 100 x 40
S275J0	Hot rolled equal leg angle steels (EN 10056)	a x b x t from 80 x 40 up to 100 x 13
S275J0	Hot rolled steel I and H sections (EN 10054)	b x h x t from 80 x 40 up to 100 x 40
S355J0	Hot rolled steel I and H sections (EN 10054)	b x h x t from 80 x 40 up to 100 x 40
S355J0	Hot rolled steel U channels (EN 10278)	b x h x t from 80 x 40 up to 100 x 40

TÜRKÜL
Rukiye BALÇAK
Deputy General Manager

FR. CPR. 24.8.04

SZUTEST ÜNİVERSİTE DEĞERLENDİRME A.Ş.
Nispetiye Mahallesi Akatlar 3. Kat, Akatlar, Beşiktaş, İstanbul 34398
www.szutest.com.tr

VISION GREEN

“

*As Tosyalı, our vision is to contribute to building a sustainable world via ensuring environmentally production in our facilities, with the help of technology, innovation and renewable energy usage. Within our responsible ecosystem management approach, we produce green steel products in every category of the steel. We produce **less carbon emission, consume less water, focus on renewable energy resources, produce with highest efficiency and recycle all our wastes.***

We believe that a sustainable world is possible with the green transformation of the steel industry.

Fuat Tosyalı
Chairman of the Board
of Directors of Tosyalı Holding

”

Tosyalı proudly presents a new umbrella brand to represent its green steel vision in every touch point of its operations.

Tosyalı V-Green

This is not just a brand, it is also the strongest indicator of sustainability actions those have been taking place for many years at Tosyalı and will continue by highest determination.

In all our production facilities, we focus on new generation green steel production and under the umbrella of V-Green, we introduce environment friendly products for our suppliers.

How we are making this vision live in Tosyalı?

We produce green steel with the help of;

- technology usage,
- innovation,
- renewable energy resources,
- recycling in every touch point production and
- operating with highest efficiency.

We aim to be the world's leading sustainable green steel producer with the lowest carbon footprint.

“

“V” are ready to be “Green”!

V-Green.
Vision Green.







TOSYALI Demir Çelik

İskenderun Factory
Organize Sanayi Bölgesi
İskenderun / Hatay

+90 (326) 656 21 30
+90 (326) 656 33 30



www.tosyalidemircelik.com.tr