

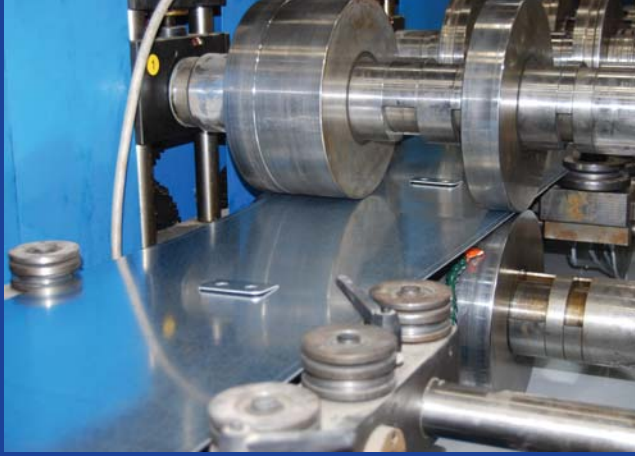


Profacto

ÖZEL YAPI PROFİLLERİ  
CONSTRUCTION PROFILES

Profil var, bir de Profacto var.  
There is profile, besides there is Profacto.





### Müşteri oryantasyonlu özel profil çekimiyle işler çok kolay.

Teknoloji geliştikçe daha hassas toleranslı üretim ve ürün ihtiyaç ve beklentileri ortaya çıktı; birkaç makinenin ayrı ayrı yaptığı işler birleşerek tek, hatta daha hassas ve hızlı şekilde yapılması istenir oldu... Konvansiyonel makinelerde yapılan sac bükme operasyonları yetersiz kalınca profil makinelerine yönelindi...

### With customer oriented special profile forming, works are very easy.

As technology developed; more sensitive tolerated production and product needs and expectations came occur; few machinery's separated works are combined in one, even more sensitive and fast way is demanded. When conventional machinery made sheet steel bending operations are inadequate, profile machinery are tended.

Malzeme cinsi, kalınlık ve genişliği, üretim hız ve hassasiyetine göre bir yelpaze oluşturan profil makineleri sayesinde, kalıp ve makara değişimiyle bir üründen diğerine geçmek kolaylaştığı gibi, çok yüksek makine maliyetleri dolayısıyla makinenin üretimini dolduramayan firmalar için bu işleri uzmanlaşmış profil merkezlerine yaptırmak daha rantabl hale geldi... Böylelikle yalnızca takımlama maliyetini üstlenerek, ana üretim hattına yatırım yapmadan istenilen hedeflere ulaşmak kolaylaştı...

Thanks to profile machinery which are performing a range according to material's type, thickness and width, production's fastness and sensitivity; by changing mold and rolls as passing from one product to another is getting easy, and because of high machine costs it became rentable for companies who cannot fill their production to procure these works to specialized profile centers... In this way taking only apparatus cost, without making investment on main production line, it is featherbed to achieve hard goals...

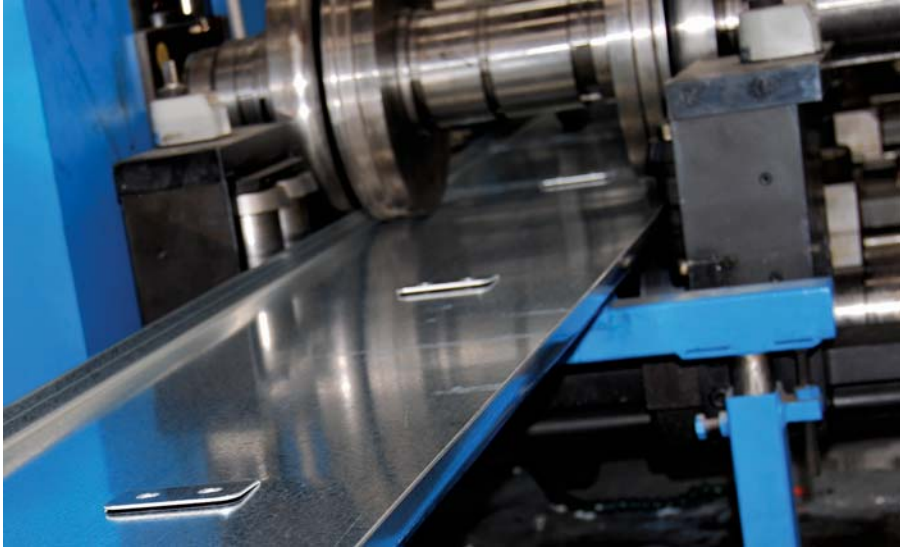
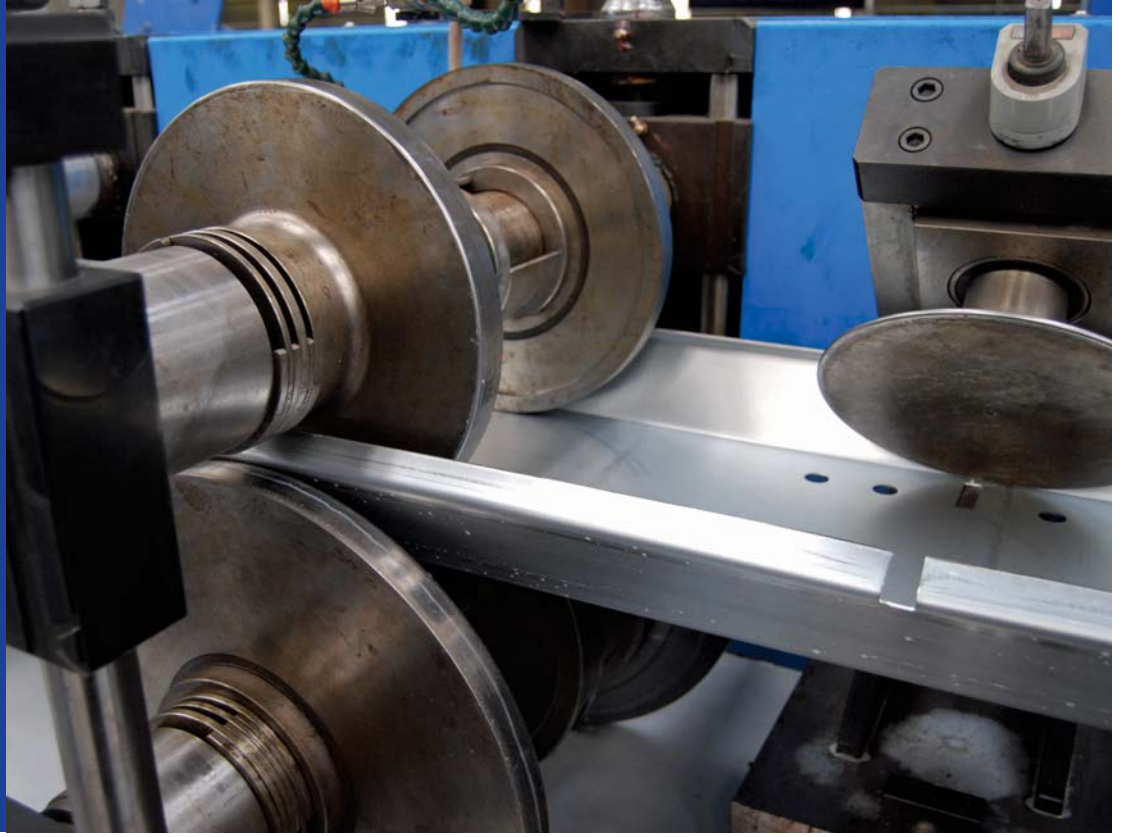
Büyük yatırımlar yaparak makineleri boş yatırma, klasik yöntemlerle üretim yaparak rekabetten geri kalma dönemi kapandı...

Making great investments, lying machinery empty, falling behind competition by making classical technics production time is over...

Yalnızca takımlama maliyetini üstlenerek, ana üretim hattına yatırım yapmadan istenilen hedeflere ulaşmanın vakti geldi...

Taking only apparatus cost, without making investment on main production line, it is time to achieve hard goals...





## Bir profile istediğiniz her işlemi yalnızca biz uygularız.

Standart hadde profillerden kurtulma vakti geldi... Profacto ile istediğiniz tasarımı kolayca yapın. Galvanizli olarak, boya gerektirmeden, fire vermeden, istediğiniz boyda, üzerinde istediğiniz delikleri (aşık, bağlantı ve gergi çubukları vb) açtırarak şantiye ya da atölyenize Profacto profillerini direkt nakledin. Şantiyenizde delme, kesme gibi işlemlere gerek kalmayın. Montajı kolay olsun, ekonomik olsun...

Profacto, makine parkındaki Avrupa menşeli, 650 mm açılım ve 4 mm kalınlık dahil 24 istasyonlu profil hattı ile çok girift şekilleri oluşturup istenilen delikleri istenilen şekilde bilgisayar kontrollü olarak açabilir ve istenilen boylarda 30 m/dk hızında kesebilir...

## We are the only applier of all your demands on process to the profile.

It is time to get rid of these standard rolling profiles. Make your own design easily with Profacto. Galvanized, no paint need, no loss, at demanded length, you can let needed holes (purlin, connection and bracings etc.) punched and transport the Profacto profiles directly to your construction site or plant. There is no need to perforation or cutting kind of process at your construction site. Let mounting be easy, let it be economic...

Width the 650 mm and 4 mm thickness included, 24 stationed profile line in Profacto machine park which is Europe oriented, there can be made very grift designs and there can be punched demanded holes by computer controlling and can be cut in demanded length with 30 m/min fastness...

## Bizim üretemeyeceğimiz profil yok.

Profacto ürün yelpazesi, bütün ihtiyaçlarınıza cevap verebilecek genişliktedir. İhtiyacınızı belirleyip bize bildirmeniz yeter. Gerisi, Profacto'nun işidir...

- Temelde yapı profilleri olan U, C, Z, M veya Epsilon, Omega profilleri
- Aşık yatay bağlantı profilleri
- Çatı ve cephe profilleri
- Araç şaseleri ve ticari araç kasaları
- Yol bariyerleri
- Galvanizli hafif çelik yapı profilleri

U, C ve Z profillerimiz, piyasada sürekli bulunabilen standart sacların firesiz dilimlenmelerinden elde edilen açılımlardan, Avrupa standartlarına ve özellikle TS 11372'ye göre kompakt olarak oluşturulur.

## There is no profile that we cannot produce.

Profacto product range is very wide which can provide all your demands. Only you make us know your needs. Rest is Profacto's duty...

- Mainly building profiles which are U, C, Z or Epsilon, Omega profiles
- Purlin horizontal connection profiles
- Roof, facade profiles
- Vehicle chassis and commercial vehicle bodies
- Road safety fence
- Galvanized light steel building profiles

Our U, C and Z profiles, performs compact by European standards and especially TS 11372, provided from continuously found in the market standard sheet iron's without loss slices opening.



Standart profillere bağlı kalmayın. İsteddiğiniz tasarımı kolayca yaptırarak, hem ilk yatırımda hem de estetik olarak kazançlı çıkın...

Do not get tied to standard profiles. By getting the design done easily, as well as in first investment, reap profit from esthetics...

## Hesaplı, estetik, sağlam. Kısaca: Profacto.

Profacto profilleri, hazır hadde profillere göre, daha proje aşamasında bile büyük tasarruf sağlar. Örneğin ince cidarlı malzemeden özel bükümlü üretilen Profacto Z profil, ideal bir çatı aşık profilidir; aynı mukavemet değerini sağlayan hazır hadde profile oranla yaklaşık yarı hafiftedir. Böylelikle hem binanız hafifler ve depremden minimum ölçüde etkilenir, hem de ilk yatırım maliyetiniz neredeyse yarıya düşer.

## Economical, esthetic, strong. Shortly: Profacto.

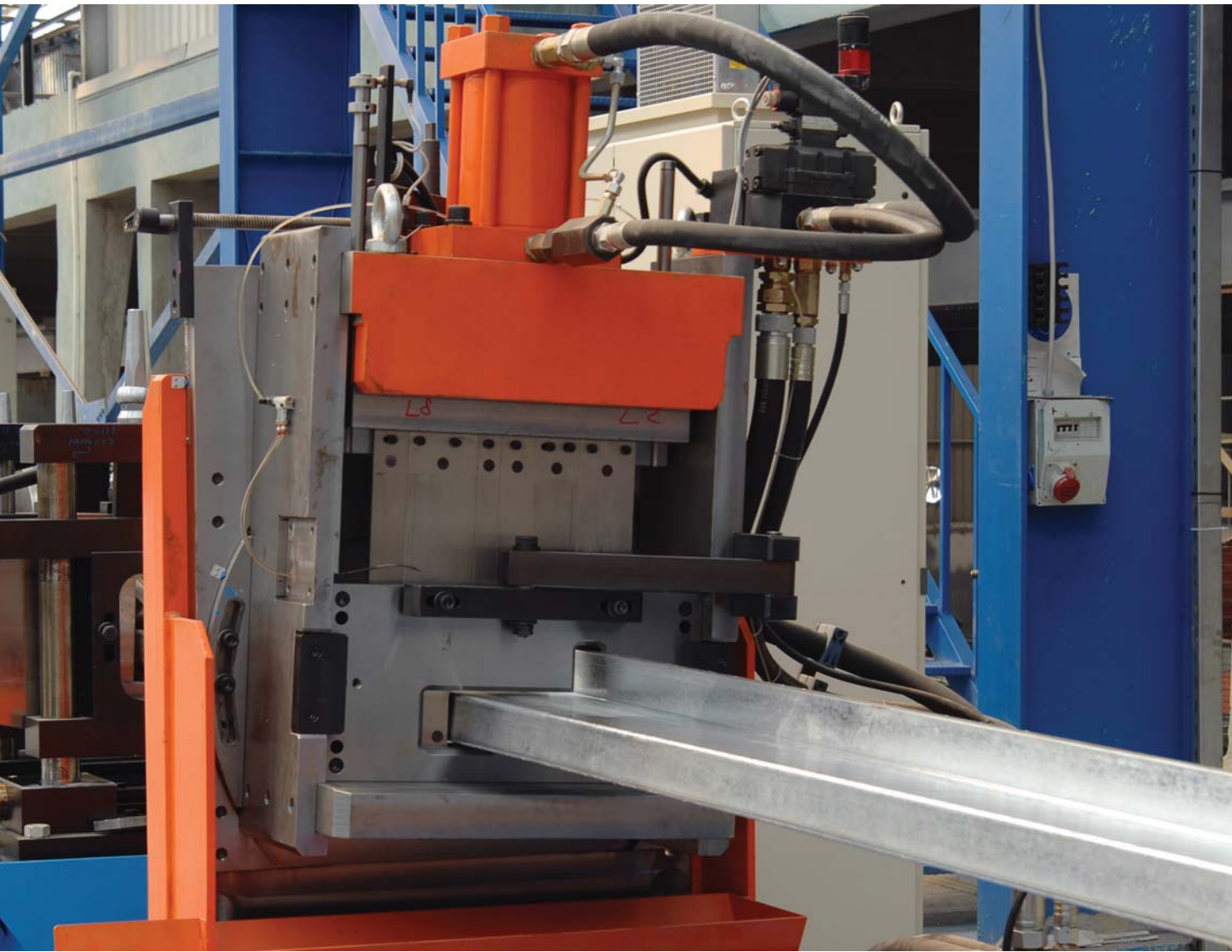
Profacto profiles, compared to prepared rolling profiles, provide great economy although in projecting stage. For example, from thin wall material product manufactured special bended Profacto Z profile is an ideal roof purlin profile; compared to same resistance value providing prepared rolling profile, it is around half weight. In this way, your building lightens and it is affected from earthquake in minimum level, also your first investment cost becomes halfly reduced.



Profacto özel yapı profilleri, piyasadaki standart NPU ve NPI profillerine göre, aynı işi gördüğü halde üretim ve montaj giderlerini en aza indirerek neredeyse yarı yarıya varan bir maliyet avantajı sağlar...

Profacto special building profiles, when compared to market's standard NPU and NPI profiles, although making the same work also reduces production and mounting loss in minimum level and saves cost almost fifty fifty...





Profacto özel yapı profilleri, hem konstrüktif hem de taşıyıcı olarak tasarlanabildiğinden, roofforming sistem sayesinde ülkemiz ekonomisine de ciddi katkılar sağlar...

Profacto special building profiles can be designed as constructive and also as carrier that, thanks to rollforming system, which provides serious help in our country's economy.

## Profacto profillerinin avantajları saymakla bitmez:

- 1 HAFIF OLDUĞU İÇİN İLK YATIRIM MALİYETİ ÇOK DÜŞÜKTÜR. Aynı mukavemet değerlerine göre Profacto profillerinin yaklaşık % 45 daha hafif oluşu, ilk yatırım maliyetini de aynı oranda düşürür.
- 2 HAFIF OLDUĞU İÇİN TEMEL VE KOLON MALİYETLERİNİ AZALTIR. Profacto profillerinin zati ağırlığı daha az olduğu için, çatıdan binayı etkileyen zati yükler ve böylelikle de kolon kesitleri, temel maliyeti ve yatay stabilite bağlantıları (deprem, rüzgar) en aza iner.
- 3 ESTETİKTİR. Hafifliği ve özel tasarımı sayesinde, kullanıldığı yapılara zariflik ve güzellik katar.
- 4 BAKIM GEREKTİRMEZ. Profacto profilleri galvanizli malzemeden üretildiği için, astar, boya ve bakım istemez.
- 5 MONTAJI KOLAY VE HESAPLIDIR. Montaj süresi çok azdır. Şantiyede kesim, delik delme, çökertme, kaynak, parçayla birleştirme gibi işlemlere ihtiyaç duymaz.
- 6 NAKLİYESİ KOLAY VE HESAPLIDIR. Hafifliğinden dolayı nakliyesi de pratik ve ekonomiktir.
- 7 HATA VERMEZ. Çatı makası/kirişi birleşim delikleri ve hatta gergi delikleri bile son derece hassas olarak açıldığından, hata oranı en aza indirilmiştir. Delikler tamamen bilgisayar kontrollü açılır.
- 8 FİRESİZDİR. Yalnızca 6 ve 12 metrelik boylarda üretilen klasik hadde profillerine karşılık, Profacto profilleri istenilen boylarda üretilebildiğinden fire vermez, kesim ve ek yapım işçiliği gerektirmez.
- 9 TASARIM SEÇENEKLERİ SONSUZDUR. Hazır hadde profillerinin standart tasarımlarıyla yetinmek zorunda kalınmaz, istenilen tasarım uygulanabilir.

## Profacto profiles' advantages are not over:

- 1 BECAUSE IT IS LIGHT, FIRST INVESTMENT COST IS VERY LOW. Compared to same resistance values, Profacto profiles % 45 lightness, lowers the first investment cost at same ratio.
- 2 BECAUSE IT IS LIGHT, IT REDUCES FOUNDATION AND COLUMN COSTS. Profacto profiles weight is low that, building affecting loads from roof and in this way column sections, foundation cost and horizontal stability connections (earthquake, wind) becomes in minimum level.
- 3 ESTHETIC. Because of its lightness and special design, it adds elegance and beauty to the buildings.
- 4 NO NEED TO MAINTENANCE. Profacto profiles are produced from galvanized material that it doesn't need undercoat, paint and maintenance.
- 5 MOUNTING IS EASY AND ECONOMICAL. Mounting time is very less. At construction area, there is no need to cutting, perforation, dimpling, welding, uniting with piece kind of processes.
- 6 TRANSPORT IS EASY AND ECONOMICAL. Because it is light, transport is practical and economic.
- 7 DOESN'T GIVE MISTAKE. Roof truss/roof beam connection holes, and also bracing holes are very sensitively opened that, mistake ratio is brought to minimum level. Holes are opened by computer controlled.
- 8 WITHOUT WASTAGE. Against classical rolling profiles, which are produced only in 6 and 12 meters length, Profacto profiles can be produced in demanded length that it doesn't give loss; it doesn't need cutting and additional production workmanship.
- 9 DESIGN OPPORTUNITIES ARE ENDLESS. There is no obligatory to content with ready rolling profiles, needed design can be applied.



## UPN HADDE PROFİLLERİNE ALTERNATİF PROFACTO Z PROFİLLERİ ALTERNATIVE PROFACTO Z PROFILES FOR UPN ROLL PROFILES

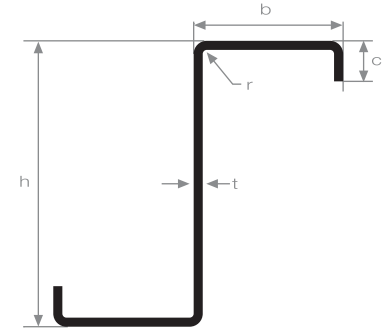
PROFİL / PROFILE		açınım / opening	S <sub>x</sub>	S <sub>y</sub>	ağırlık / weight
		mm	cm <sup>3</sup>	cm <sup>3</sup>	kg/m
Piyasa / Market	UPN 80 Hadde profili / Roll Profile		26.5	6.36	8.64
PROFACTO Profilleri Profacto Profiles	Z 140x70x16x2 mm	298	27.19	9.69	4.67
	Z 160x60x16x2 mm	298	29.22	7.49	4.67
	Z 120x60x13x3 mm	248	28.31	9.74	5.84
	Z 140x50x13x3 mm	248	30.71	7.08	5.84
Piyasa / Market	UPN 100 Hadde profili / Roll Profile		41.2	8.49	10.6
PROFACTO Profilleri Profacto Profiles	Z 220x60x23x2 mm	372	47.17	9.08	5.83
	Z 180x60x24x2,5 mm	332	44.37	11.4	6.51
	Z 160x60x18x3 mm	298	43.1	11.41	7.01
Piyasa / Market	UPN 120 Hadde profili / Roll Profile		60.7	11.1	13.4
PROFACTO Profilleri Profacto Profiles	Z 280x60x15x2 mm	415	62.68	7.15	6.51
	Z 200x80x26x2,5 mm	396	61.62	18.76	7.76
	Z 220x80x16x2,5 mm	396	66.4	14.95	7.76
	Z 180x80x25x3 mm	372	63.23	21.7	8.75
Piyasa / Market	UPN 140 Hadde profili / Roll Profile		86.4	14.8	16
PROFACTO Profilleri Profacto Profiles	Z 280x70x22x2,5 mm	448	88.34	13.87	8.78
	Z 240x80x17x3 mm	415	88.87	17.85	9.76
	Z 260x70x17x3 mm	415	91.49	14.18	9.76
	Z 220x80x19x3,5 mm	396	91.97	21.25	10.87
	Z 240x70x19x3,5 mm	396	95.32	16.9	10.87
Piyasa / Market	UPN 160 Hadde profili / Roll Profile		116	18.3	18.8
PROFACTO Profilleri Profacto Profiles	Z 300x70x25x3 mm	472	117.62	17.52	11.11
	Z 260x80x25x3,5 mm	448	119.26	24.39	12.3
	Z 280x70x25x3,5 mm	448	122.56	19.63	12.3
	Z 240x80x19x4 mm	415	117.34	24.17	13.02
	Z 260x70x19x4 mm	415	120.91	19.2	13.02
	Z 280x60x19x4 mm	415	123.42	14.78	13.02
Piyasa / Market	UPN 180 Hadde profili / Roll Profile		150	22.4	22
PROFACTO Profilleri Profacto Profiles	Z 280x80x28x4 mm	472	151.76	29.21	14.81
	Z 300x70x28x4 mm	472	155.47	23.56	14.81
	Z 300x80x28x4 mm	492	167.15	29.21	15.43



PROFACTO PROFIL

b: Genişlik	b: Width
h: Yükseklik	h: Height
c: Tırnak uzunluğu	c: Lip length
t: Kalınlık	t: Thickness
r: Büküm yarıçapı = 2 ~ 4	r: Bending radius = 2 ~ 4

Tablodaki tüm profiller TS 11372'ye göre kompakttır. In table, all the profiles are compact according to TS 11372.



\* Kompakt olmayan profillerdir. Etkin kesit hesabına göre hesaplara yansıtılacaktır. They are the non-compacted profiles. They are going to be reflected to accounts according to the effective intersection account.

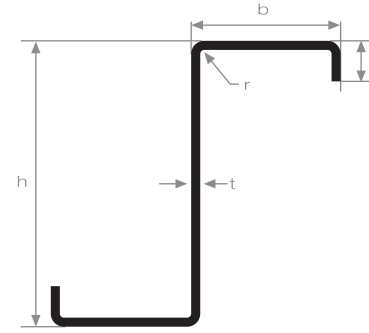
h	b	c	t	açınım opening	alan area	ağırlık weight	I <sub>x</sub>	S <sub>x</sub>	r <sub>x</sub>	I <sub>y</sub>	S <sub>y</sub>	r <sub>y</sub>
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm
120	50	14.8	1.5	238	3.57	2.80	80.46	13.41	4.75	20.32	4.13	2.39
120	50	16.0	2	238	4.76	3.73	106.02	17.67	4.72	27.18	5.55	2.39
120	50	17.2	2.5	238	5.95	4.67	130.92	21.82	4.69	34.06	6.99	2.39
120	50	18.4	3	238	7.14	5.60	155.14	25.86	4.66	40.95	8.44	2.39
120	50	19.7	3.5	238	8.33	6.53	178.67	29.78	4.63	47.83	9.91	2.40
120	50	20.9	4	238	9.52	7.47	201.50	33.58	4.60	54.69	11.39	2.40
* 120	60	11.0	2	248	4.96	3.89	115.62	19.27	4.83	37.44	6.35	2.75
* 120	60	12.2	2.5	248	6.20	4.86	143.05	23.84	4.80	47.15	8.03	2.76
* 120	60	13.4	3	248	7.44	5.84	169.85	28.31	4.78	56.96	9.74	2.77
* 120	60	14.7	3.5	248	8.68	6.81	196.00	32.67	4.75	66.86	11.48	2.78
* 120	60	15.9	4	248	9.92	7.78	221.48	36.91	4.73	76.83	13.25	2.78
* 140	50	9.8	1.5	248	3.72	2.92	110.31	15.76	5.45	16.79	3.41	2.12
* 140	50	11.0	2	248	4.96	3.89	145.86	20.38	5.42	22.57	4.61	2.13
* 140	50	12.2	2.5	248	6.20	4.86	180.76	25.82	5.40	28.42	5.83	2.14
* 140	50	13.4	3	248	7.44	5.84	214.98	30.71	5.38	34.32	7.08	2.15
* 140	50	14.7	3.5	248	8.68	6.81	248.50	35.50	5.35	40.26	8.35	2.15
* 140	50	15.9	4	248	9.92	7.78	281.29	40.18	5.33	46.23	9.63	2.16
* 140	70	16.0	2	298	5.96	4.67	190.34	27.19	5.65	66.88	9.69	3.35
* 140	70	17.2	2.5	298	7.45	5.84	235.68	33.67	5.62	83.96	12.21	3.36
* 140	70	18.4	3	298	8.94	7.01	280.07	40.01	5.60	101.15	14.77	3.36
* 140	70	19.7	3.5	298	10.43	8.18	323.51	46.22	5.57	118.42	17.35	3.37
* 140	70	20.9	4	298	11.92	9.35	365.97	52.28	5.54	135.75	19.96	3.37
* 160	60	16.0	2	298	5.96	4.67	233.76	29.22	6.26	44.17	7.49	2.72
* 160	60	17.2	2.5	298	7.45	5.84	289.81	36.23	6.24	55.42	9.43	2.73
* 160	60	18.4	3	298	8.94	7.01	344.83	43.10	6.21	66.72	11.41	2.73
* 160	60	19.7	3.5	298	10.43	8.18	398.82	49.85	6.18	78.05	13.40	2.74
* 160	60	20.9	4	298	11.92	9.35	451.74	56.47	6.16	89.41	15.42	2.74
* 160	70	23.0	2	332	6.64	5.21	268.99	33.62	6.36	79.83	11.57	3.47
* 160	70	24.2	2.5	332	8.30	6.51	333.13	41.64	6.34	99.91	14.53	3.47
* 160	70	25.4	3	332	9.96	7.81	395.99	49.50	6.31	120.01	17.52	3.47
* 160	70	26.7	3.5	332	11.62	9.11	457.54	57.19	6.28	140.10	20.53	3.47
* 160	70	27.9	4	332	13.28	10.42	517.78	64.72	6.24	160.17	23.55	3.47
* 160	80	14.2	2.5	332	8.30	6.51	345.63	43.20	6.45	111.68	14.18	3.67
* 160	80	15.4	3	332	9.96	7.81	411.63	51.45	6.43	134.78	17.17	3.68
* 160	80	16.7	3.5	332	11.62	9.11	476.52	59.57	6.40	158.07	20.20	3.69
* 160	80	17.9	4	332	13.28	10.42	540.28	67.54	6.38	181.53	23.27	3.70

b: Genişlik  
h: Yükseklik  
c: Tırnak uzunluğu  
t: Kalınlık  
r: Büküm yarıçapı = 2 ~ 4

b: Width  
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TS 11372'ye göre kompakttır.

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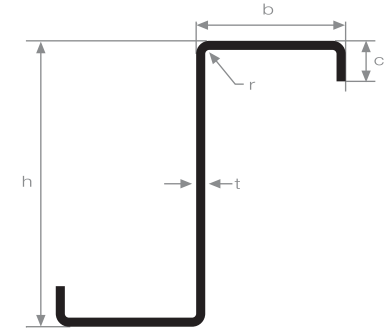


\* Kompakt olmayan profillerdir. Etkin kesit hesabına göre hesaplara yansıtılacaktır.  
They are the non-compact profiles. They are going to be reflected to accounts according to the effective intersection account.

h	b	c	t	açınım opening	alan area	ağırlık weight	$I_x$	$S_x$	$r_x$	$I_y$	$S_y$	$r_y$
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm
180	60	23.0	2	332	6.64	5.21	322.08	35.79	6.96	53.59	9.08	2.84
180	60	24.2	2.5	332	8.30	6.51	399.28	44.37	6.94	67.00	11.40	2.84
180	60	25.4	3	332	9.96	7.81	475.10	52.79	6.91	80.37	13.74	2.84
180	60	26.7	3.5	332	11.62	9.11	549.52	61.06	6.88	93.71	16.09	2.84
180	60	27.9	4	332	13.28	10.42	622.51	69.17	6.85	106.99	18.45	2.84
* 180	70	14.2	2.5	332	8.30	6.51	413.58	45.95	7.06	77.13	11.22	3.05
* 180	70	15.4	3	332	9.96	7.81	493.02	54.78	7.04	93.08	13.59	3.06
* 180	70	16.7	3.5	332	11.62	9.11	571.28	63.48	7.01	109.14	15.99	3.06
* 180	70	17.9	4	332	13.28	10.42	648.35	72.04	6.99	125.32	18.43	3.07
180	80	24.2	2.5	372	9.30	7.29	478.05	53.12	7.17	141.72	18.00	3.90
180	80	25.4	3	372	11.16	8.75	569.10	63.23	7.17	170.36	21.70	3.91
180	80	26.7	3.5	372	13.02	10.21	658.57	73.17	7.11	199.05	25.44	3.91
180	80	27.9	4	372	14.88	11.67	746.44	82.94	7.08	227.76	29.20	3.91
200	80	25.0	2	396	7.92	6.21	496.45	49.65	7.92	118.02	14.94	3.86
200	80	26.2	2.5	396	9.90	7.76	616.16	61.62	7.89	147.73	18.76	3.86
200	80	27.4	3	396	11.88	9.32	734.05	73.41	7.86	177.48	22.61	3.87
* 200	80	16.7	3.5	372	13.02	10.21	799.73	79.97	7.84	158.08	20.20	3.48
220	60	23.0	2	372	7.44	5.83	518.83	47.17	8.35	53.60	9.08	2.68
220	60	24.2	2.5	372	9.30	7.29	644.41	58.58	8.32	67.00	11.41	2.68
220	60	25.4	3	372	11.16	8.75	768.25	69.84	8.30	80.38	13.74	2.68
220	60	26.7	3.5	372	13.02	10.21	890.33	80.94	8.27	93.72	16.09	2.68
220	60	27.9	4	372	14.88	11.67	1010.60	91.87	8.24	107.00	18.45	2.68
* 220	70	14.2	2.5	372	9.30	7.29	662.29	60.21	8.44	77.14	11.22	2.88
* 220	70	15.4	3	372	11.16	8.75	790.71	71.88	8.42	93.08	13.59	2.89
* 220	70	16.7	3.5	372	13.02	10.21	917.70	83.42	8.40	109.20	15.99	2.90
* 220	70	17.9	4	372	14.88	11.67	1043.10	94.83	8.37	125.30	18.43	2.90
* 220	80	16.2	2.5	396	9.90	7.76	730.41	66.40	8.59	117.70	14.95	3.45
* 220	80	17.4	3	396	11.88	9.32	871.90	79.26	8.57	141.90	18.08	3.46
* 220	80	18.7	3.5	396	13.86	10.87	1011.60	91.97	8.54	166.30	21.25	3.46
* 220	80	19.9	4	396	15.84	12.42	1149.70	104.52	8.52	190.80	24.46	3.47
240	60	25.0	2	396	7.92	6.21	646.50	53.88	9.04	56.29	9.54	2.67
240	60	26.2	2.5	396	9.90	7.76	803.35	66.95	9.01	70.31	11.97	2.67
240	60	27.4	3	396	11.88	9.32	958.20	79.85	8.98	84.30	14.41	2.66
* 240	60	16.7	3.5	372	13.02	10.21	1031.30	85.94	8.90	71.40	12.25	2.34
* 240	60	17.9	4	372	14.88	11.67	1173.00	97.75	8.88	81.90	14.12	2.35

b: Genişlik	b: Width
h: Yükseklik	h: Height
c: Tırnak uzunluğu	c: Lip length
t: Kalınlık	t: Thickness
r: Büküm yarıçapı = 2 ~ 4	r: Bending radius = 2 ~ 4

Tablodaki tüm profiller TS 11372'ye göre kompakttır. In table, all the profiles are compact according to TS 11372.



\* Kompakt olmayan profillerdir, Etkin kesit hesabına göre hesaplara yansıtılacaktır. They are the non-compact profiles. They are going to be reflected to accounts according to the effective intersection account.

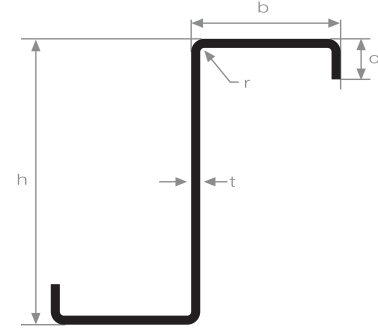
h	b	c	t	açınım opening	alan area	ağırlık weight	I <sub>x</sub>	S <sub>x</sub>	r <sub>x</sub>	I <sub>y</sub>	S <sub>y</sub>	r <sub>y</sub>	
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
*	240	70	16.2	2.5	396	9.90	7.76	825.03	68.75	9.13	81.70	11.88	2.87
*	240	70	17.4	3	396	11.88	9.32	985.30	82.11	9.11	98.50	14.38	2.88
*	240	70	18.7	3.5	396	13.86	10.87	1143.90	95.32	9.09	115.40	16.90	2.89
*	240	70	19.9	4	396	15.84	12.42	1300.70	108.39	9.06	132.30	19.46	2.89
*	240	80	15.7	2.5	415	10.38	8.14	892.80	74.40	9.28	116.20	14.76	3.35
*	240	80	16.9	3	415	12.45	9.76	1066.40	88.87	9.26	140.10	17.85	3.36
	240	80	18.2	3.5	415	14.53	11.39	1238.20	103.18	9.23	164.20	20.99	3.36
	240	80	19.4	4	415	16.60	13.02	1408.10	117.34	9.21	188.50	24.17	3.37
*	260	60	15.0	2	396	7.92	6.21	735.66	56.59	9.64	42.83	7.26	2.33
*	260	60	16.2	2.5	396	9.90	7.76	915.70	70.44	9.62	53.78	9.15	2.33
*	260	60	17.4	3	396	11.88	9.32	1094.10	84.16	9.60	64.80	11.08	2.34
	260	60	18.7	3.5	396	13.86	10.87	1270.70	97.75	9.58	75.90	13.02	2.34
	260	60	19.9	4	396	15.84	12.42	1445.60	111.20	9.55	86.90	14.99	2.34
*	260	70	15.7	2.5	415	10.38	8.14	995.30	76.56	9.80	80.60	11.72	2.79
*	260	70	16.9	3	415	12.45	9.76	1189.30	91.49	9.77	97.10	14.18	2.79
*	260	70	18.2	3.5	415	14.53	11.39	1381.50	106.27	9.75	113.80	16.68	2.80
*	260	70	19.4	4	415	16.60	13.02	1571.80	120.91	9.73	130.60	19.20	2.81
	260	80	22.2	2.5	448	11.20	8.78	1118.30	86.02	9.99	135.70	17.24	3.48
	260	80	23.4	3	448	13.44	10.54	1335.50	102.73	9.97	163.30	20.80	3.49
	260	80	24.7	3.5	448	15.68	12.30	1550.30	119.26	9.94	190.90	24.39	3.49
	260	80	25.9	4	448	17.92	13.03	1762.90	135.61	9.92	218.60	28.02	3.49
*	280	60	14.5	2	415	8.30	6.51	877.56	62.68	10.28	42.16	7.15	2.25
*	280	60	15.7	2.5	415	10.38	8.14	1092.80	78.06	10.26	53.00	9.01	2.26
	280	60	16.9	3	415	12.45	9.76	1306.30	93.31	10.24	63.80	10.91	2.26
	280	60	18.2	3.5	415	14.53	11.39	1518.00	108.43	10.22	74.70	12.83	2.27
	280	60	19.4	4	415	16.60	13.02	1727.80	123.42	10.20	85.70	14.78	2.27
	280	70	22.2	2.5	448	11.20	8.78	1236.70	88.34	10.51	95.40	13.87	2.92
	280	70	23.4	3	448	13.44	10.54	1477.40	105.53	10.49	114.60	16.74	2.92
	280	70	24.7	3.5	448	15.68	12.30	1715.80	122.56	10.46	134.00	19.63	2.92
	280	70	25.9	4	448	17.92	13.03	1951.90	139.42	10.44	153.30	22.54	2.92
	280	80	24.2	2.5	472	11.80	9.25	1346.60	96.19	10.68	141.70	18.00	3.47
	280	80	25.4	3	472	14.16	11.11	1608.60	114.90	10.66	170.40	21.70	3.47
	280	80	26.7	3.5	472	16.52	12.96	1867.90	133.42	10.63	199.10	25.44	3.47
	280	80	27.9	4	472	18.88	14.81	2124.70	151.76	10.61	227.80	29.21	3.47

b: Genişlik  
h: Yükseklik  
c: Tırnak uzunluğu  
t: Kalınlık  
r: Büküm yarıçapı = 2 ~ 4

b: Width  
h: Height  
c: Lip length  
t: Thickness  
r: Bending radius = 2 ~ 4

Tablodaki tüm profiller  
TS 11372'ye göre kompakttır.

In table, all the profiles are  
compact according to TS 11372.



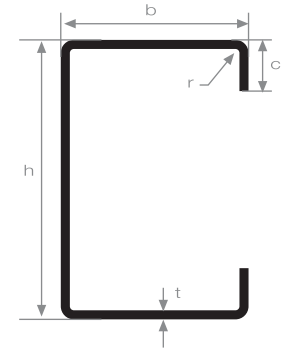
h	b	c	t	açınım opening	alan area	ağırlık weight	$I_x$	$S_x$	$r_x$	$I_y$	$S_y$	$r_y$
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm
300	60	21.0	2	448	8.96	7.03	1084.20	72.28	11.00	50.90	8.63	2.38
300	60	22.2	2.5	448	11.20	8.78	1349.80	89.99	10.98	63.70	10.84	2.39
300	60	23.4	3	448	13.44	10.54	1613.10	107.54	10.96	76.50	13.08	2.39
300	60	24.7	3.5	448	15.68	12.30	1874.00	124.93	10.93	89.30	15.33	2.39
300	60	25.9	4	448	17.92	13.03	2132.50	142.17	10.91	102.00	17.59	2.39

300	70	24.2	2.5	472	11.80	9.25	1476.50	98.43	11.19	99.90	14.54	2.91
300	70	25.4	3	472	14.16	11.11	1764.30	117.62	11.16	120.00	17.52	2.91
300	70	26.7	3.5	472	16.52	12.96	2049.50	136.63	11.14	140.10	20.53	2.91
300	70	27.9	4	472	18.88	14.81	2332.00	155.47	11.11	160.20	23.56	2.91

300	80	25.7	2.5	495	12.38	9.71	1598.90	106.59	11.37	146.20	18.57	3.44
300	80	26.9	3	495	14.85	11.65	1910.40	127.36	11.34	175.70	22.39	3.44
300	80	26.7	3.5	492	17.22	13.51	2203.30	146.89	11.31	199.10	25.44	3.40
300	80	27.9	4	492	19.68	15.43	2507.20	167.15	11.29	227.80	29.21	3.40

b: Genişlik	b: Width
h: Yükseklik	h: Height
c: Tırnak uzunluğu	c: Lip length
t: Kalınlık	t: Thickness
r: Büküm yarıçapı = 2 ~ 4	r: Bending radius = 2 ~ 4

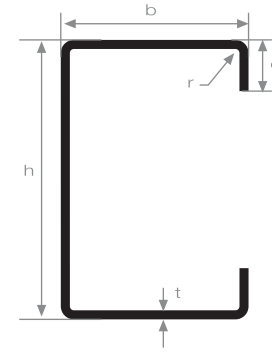
Tablodaki tüm profiller TS 11372'ye göre kompakttır. In table, all the profiles are compact according to TS 11372.



\* Kompakt olmayan profillerdir, Etkin kesit hesabına göre hesaplara yansıtılacaktır. They are the non-compacted profiles. They are going to be reflected to accounts according to the effective intersection account.

h	b	c	t	açınım opening	alan area	ağırlık weight	I <sub>x</sub>	S <sub>x</sub>	r <sub>x</sub>	I <sub>y</sub>	S <sub>y</sub>	r <sub>y</sub>	e <sub>x</sub>
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
60	40	9.1	1	149	1.49	1.17	9.14	3.05	2.48	3.23	1.27	1.47	1.45
*	60	9.6	1.2	149	1.79	1.40	10.87	3.62	2.47	3.88	1.53	1.47	1.47
*	60	10.3	1.5	149	2.24	1.75	13.39	4.46	2.45	4.84	1.93	1.47	1.49
*	60	11.5	2	149	2.98	2.34	17.41	5.80	2.42	6.43	2.60	1.45	1.53
*	60	12.7	2.5	149	3.73	2.92	21.21	7.07	2.39	7.99	3.28	1.46	1.57
*	60	13.9	3	149	4.40	3.45	24.78	8.19	2.36	9.52	3.75	1.44	1.60
80	40	10.1	1.2	170	2.04	1.60	21.08	5.27	3.21	4.38	1.63	1.47	1.32
80	40	10.8	1.5	170	2.55	2.00	26.08	6.52	3.20	5.47	2.06	1.46	1.34
80	40	12.0	2	170	3.40	2.67	34.16	8.54	3.17	7.28	2.77	1.46	1.37
80	40	13.2	2.5	170	4.25	3.33	41.91	10.48	3.14	9.06	3.50	1.46	1.41
80	40	14.4	3	170	5.10	4.00	49.32	12.33	3.11	10.82	4.23	1.46	1.44
*	80	15.7	3.5	170	5.95	4.67	56.39	14.10	3.08	12.54	4.97	1.45	1.48
*	80	16.9	4	170	6.80	5.33	63.11	15.78	3.05	14.23	5.71	1.45	1.51
100	40	13.6	1	198	1.98	1.55	30.78	6.16	3.94	4.53	1.67	1.51	1.28
100	40	14.1	1.2	198	2.38	1.86	36.72	7.34	3.93	5.42	2.00	1.51	1.30
100	40	14.8	1.5	198	2.97	2.33	45.48	9.10	3.91	6.75	2.51	1.51	1.32
100	40	16.0	2	198	3.96	3.11	59.71	11.94	3.88	8.94	3.37	1.50	1.35
100	40	17.2	2.5	198	4.95	3.76	73.45	14.69	3.85	11.10	4.24	1.50	1.38
100	40	18.4	3	198	5.94	4.52	86.69	17.34	3.82	13.21	5.10	1.49	1.41
100	40	19.7	3.5	198	6.93	5.44	99.42	19.89	3.79	15.27	5.97	1.48	1.44
100	40	20.9	4	198	7.92	6.21	111.64	22.33	3.75	17.38	6.83	1.48	1.47
100	50	15.8	1.5	220	3.30	2.59	53.12	10.62	4.01	11.81	3.63	1.89	1.75
100	50	17.0	2	220	4.40	3.45	69.76	13.95	3.98	15.68	4.87	1.89	1.78
100	50	18.2	2.5	220	5.50	4.31	85.85	17.17	3.95	19.50	6.12	1.88	1.81
100	50	19.4	3	220	6.60	5.18	101.39	20.28	3.92	23.26	7.38	1.88	1.85
100	50	20.7	3.5	220	7.70	6.04	116.35	23.27	3.89	26.96	8.64	1.87	1.88
100	50	21.9	4	220	8.80	6.90	130.74	26.15	3.85	30.59	9.91	1.86	1.91
120	50	14.8	1.5	238	3.57	2.80	80.46	13.41	4.75	12.25	3.58	1.85	1.58
120	50	16.0	2	238	4.76	3.73	106.02	17.67	4.72	16.29	4.81	1.85	1.61
120	50	17.2	2.5	238	5.95	4.67	130.92	21.82	4.69	20.29	6.05	1.85	1.65
120	50	18.4	3	238	7.14	5.60	155.14	25.86	4.66	24.25	7.30	1.84	1.68
120	50	19.7	3.5	238	8.33	6.53	178.67	29.78	4.63	28.16	8.56	1.84	1.71
120	50	20.9	4	238	9.52	7.47	201.05	33.58	4.60	32.01	9.83	1.83	1.74
*	120	11.0	2	248	4.96	3.89	115.62	16.27	4.83	22.18	5.35	2.11	1.85
*	120	12.2	2.5	248	6.20	4.86	143.05	23.84	4.80	27.79	6.76	2.12	1.89
*	120	13.4	3	248	7.44	5.84	169.85	28.31	4.78	33.40	8.21	2.12	1.93
*	120	14.7	3.5	248	8.68	6.81	196.00	32.67	4.75	38.99	9.67	2.12	1.97
*	120	15.9	4	248	9.92	7.78	221.48	36.91	4.73	44.57	11.15	2.12	2.00

b: Genişlik	b: Width
h: Yükseklik	h: Height
c: Tırnak uzunluğu	c: Lip length
t: Kalınlık	t: Thickness
r: Büküm yarıçapı = 2 ~ 4	r: Bending radius = 2 ~ 4

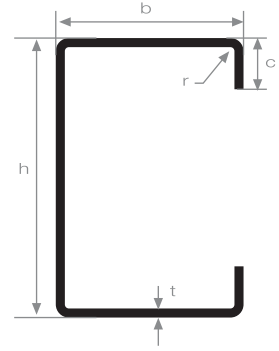


Tablodaki tüm profiller TS 11372'ye göre kompakttır. In table, all the profiles are compact according to TS 11372.

\* Kompakt olmayan profillerdir, Etkin kesit hesabına göre hesaplara yansıtılacaktır. They are the non-compacted profiles, They are going to be reflected to accounts according to the effective intersection account.

h	b	c	t	açınım opening	alan area	ağırlık weight	I <sub>x</sub>	S <sub>x</sub>	r <sub>x</sub>	I <sub>y</sub>	S <sub>y</sub>	r <sub>y</sub>	e <sub>x</sub>	
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm	
*	140	50	9.8	1.5	248	3.72	2.92	110.31	15.76	5.45	11.00	2.99	1.72	1.32
*	140	50	11.0	2	248	4.96	3.89	145.86	20.84	5.42	14.72	4.04	1.72	1.36
*	140	50	12.2	2.5	248	6.20	4.86	180.76	25.82	5.40	18.45	5.11	1.72	1.39
*	140	50	13.4	3	248	7.44	5.84	214.98	30.71	5.38	22.17	6.21	1.73	1.43
*	140	50	14.7	3.5	248	8.68	6.81	248.50	35.50	5.35	25.88	7.32	1.73	1.46
*	140	50	15.9	4	248	9.92	7.78	281.29	40.18	5.33	29.57	8.44	1.73	1.50
	140	60	22.0	2	290	5.80	4.55	177.54	25.36	5.53	30.41	7.68	2.29	2.04
*	140	60	23.2	2.5	290	7.25	5.69	219.49	31.36	5.50	37.84	9.64	2.28	2.07
	140	60	24.4	3	290	8.70	6.82	260.42	37.20	5.47	45.18	11.60	2.28	2.10
	140	60	25.7	3.5	290	10.15	7.96	300.33	42.90	5.44	52.43	13.57	2.27	2.14
	140	60	26.9	4	290	11.60	9.10	339.20	48.46	5.41	59.57	15.54	2.27	2.17
	160	60	16.0	2	298	5.96	4.67	233.76	29.22	6.26	27.86	6.56	2.16	1.75
	160	60	17.2	2.5	298	7.45	5.84	289.81	36.23	6.24	34.80	8.26	2.16	1.79
	160	60	18.4	3	298	8.94	7.01	344.83	43.10	6.21	41.72	9.99	2.16	1.82
	160	60	19.7	3.5	298	10.43	8.18	398.82	49.85	6.18	48.59	11.72	2.16	1.86
	160	60	20.9	4	298	11.92	9.35	451.74	56.47	6.16	55.41	13.48	2.16	1.89
	180	60	23.0	2	332	6.64	5.21	322.08	35.79	6.96	33.73	8.09	2.25	1.83
	180	60	24.2	2.5	332	8.30	6.51	399.28	44.37	6.94	41.99	10.15	2.25	1.86
	180	60	25.4	3	332	9.96	7.81	475.10	52.79	6.91	50.17	12.21	2.24	1.89
	180	60	26.7	3.5	332	11.62	9.11	549.52	61.06	6.88	58.25	14.28	2.24	1.92
	180	60	27.9	4	332	13.28	10.42	622.51	69.17	6.85	66.22	16.36	2.23	1.95
*	200	60	13.0	2	332	6.64	5.21	386.49	38.65	7.63	27.49	6.08	2.04	1.48
*	200	60	14.2	2.5	332	8.30	6.51	480.37	48.04	7.61	34.45	7.68	2.04	1.51
*	200	60	15.4	3	332	9.96	7.81	573.08	57.31	7.59	41.41	9.30	2.04	1.55
*	200	60	16.7	3.5	332	11.62	9.11	664.58	66.46	7.56	48.37	10.95	2.04	1.58
*	200	60	17.9	4	332	13.28	10.42	754.80	75.48	7.54	55.30	12.62	2.04	1.62
	200	80	25.0	2	396	7.92	6.21	496.45	49.65	7.92	71.53	13.06	3.01	2.52
	200	80	26.2	2.5	396	9.90	7.76	616.20	61.62	7.89	89.20	16.39	3.00	2.56
*	200	80	15.4	3	372	11.16	8.75	689.50	68.95	7.86	85.60	14.88	2.77	2.25
*	200	80	16.7	3.5	372	13.02	10.21	799.70	79.97	7.84	100.10	17.51	2.77	2.29
*	200	80	17.9	4	372	14.88	11.67	908.50	90.85	7.81	114.50	20.17	2.78	2.32
	220	60	23.0	2	372	7.44	5.83	518.83	47.17	8.35	35.87	8.23	2.20	1.64
	220	60	24.2	2.5	372	9.30	7.29	644.41	58.58	8.32	44.69	10.33	2.19	1.67
	220	60	25.4	3	372	11.16	8.75	768.20	69.84	8.30	53.40	12.44	2.19	1.70
	220	60	26.7	3.5	372	13.02	10.21	890.30	80.94	8.27	62.10	14.55	2.18	1.73
	220	60	27.9	4	372	14.88	11.67	1010.60	91.87	8.24	70.60	16.67	2.18	1.76

b: Genişlik	b: Width
h: Yükseklik	h: Height
c: Tırnak uzunluğu	c: Lip length
t: Kalınlık	t: Thickness
r: Büküm yarıçapı = 2 ~ 4	r: Bending radius = 2 ~ 4



Tablodaki tüm profiller In table, all the profiles are  
TS 11372'ye göre kompakttır. compact according to TS 11372.

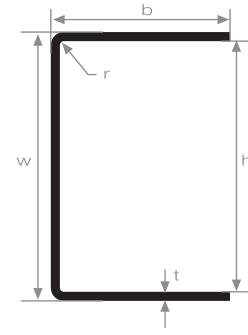
\* Kompakt olmayan profillerdir. Etkin kesit hesabına göre hesaplara yansıtılacaktır.  
They are the non-compacted profiles. They are going to be reflected to accounts according to the effective intersection account.

h	b	c	t	açınım opening	alan area	ağırlık weight	I <sub>x</sub>	S <sub>x</sub>	r <sub>x</sub>	I <sub>y</sub>	S <sub>y</sub>	r <sub>y</sub>	e <sub>x</sub>
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
220	80	25.7	2.5	415	10.38	8.14	768.10	69.83	8.60	91.30	16.38	2.97	2.43
*	220	80	17.4	3	396	11.88	871.90	79.26	8.57	92.00	15.86	2.78	2.20
*	220	80	18.7	3.5	396	13.86	1011.60	91.97	8.54	107.40	18.64	2.78	2.24
*	220	80	19.9	4	396	15.84	1149.70	104.52	8.52	122.90	21.45	2.79	2.27
240	60	25.0	2	396	7.44	5.83	597.48	49.79	8.96	28.85	6.18	1.97	1.33
240	60	26.2	2.5	396	9.30	7.29	743.54	61.96	8.94	36.17	7.80	1.97	1.37
240	60	27.4	3	396	11.16	8.75	888.20	74.02	8.92	43.50	9.46	1.98	1.40
240	60	28.7	3.5	396	13.02	10.21	1031.30	85.94	8.90	50.90	11.13	1.98	1.43
240	60	29.9	4	396	14.88	11.67	1173.00	97.75	8.88	58.20	12.83	1.98	1.46
*	240	80	15.7	2.5	415	10.38	8.14	892.80	74.40	9.28	77.60	2.74	2.05
*	240	80	16.9	3	415	12.45	9.76	1066.40	88.87	9.26	93.40	2.74	2.09
*	240	80	18.2	3.5	415	14.53	11.39	1238.20	103.18	9.23	109.10	2.74	2.12
*	240	80	19.4	4	415	16.60	13.02	1408.10	117.34	9.21	124.90	2.74	2.16
*	260	60	15.0	2	396	7.92	6.21	735.66	56.59	9.64	31.13	1.98	1.32
*	260	60	16.2	2.5	396	9.90	7.76	915.70	70.44	9.62	39.00	1.98	1.35
*	260	60	17.4	3	396	11.88	9.32	1094.10	84.16	9.60	46.80	1.99	1.38
260	60	18.7	3.5	396	13.86	10.87	1270.70	97.75	9.58	54.70	11.91	1.99	1.41
260	60	19.9	4	396	15.84	12.42	1445.60	111.20	9.55	62.50	13.71	1.99	1.44
260	80	22.2	2.5	448	11.20	8.78	1118.30	86.02	9.99	90.50	15.42	2.84	2.14
260	80	23.4	3	448	13.44	10.54	1335.50	102.73	9.97	108.50	18.61	2.84	2.17
260	80	24.7	3.5	448	15.68	12.30	1550.30	119.26	9.94	126.50	21.82	2.84	2.20
260	80	25.9	4	448	17.92	13.03	1762.90	135.61	9.92	144.50	25.05	2.84	2.23
*	280	60	14.5	2	415	8.30	6.51	877.56	62.68	10.28	31.26	1.94	1.25
*	280	60	15.7	2.5	415	10.38	8.14	1092.80	78.06	10.26	39.20	1.94	1.28
*	280	60	16.9	3	415	12.45	9.76	1306.30	93.31	10.24	47.10	1.95	1.31
280	60	18.2	3.5	415	14.53	11.39	1518.00	108.43	10.22	55.00	11.80	1.95	1.34
280	60	19.4	4	415	16.60	13.02	1727.80	123.42	10.20	62.90	13.59	1.95	1.37
280	80	24.2	2.5	472	11.80	9.25	1346.60	96.19	10.68	95.80	16.23	2.85	2.10
280	80	25.4	3	472	14.16	11.11	1608.60	114.90	10.66	114.80	19.56	2.85	2.13
280	80	26.7	3.5	472	16.52	12.96	1867.90	133.42	10.63	133.80	22.92	2.85	2.16
280	80	27.9	4	472	18.88	14.81	2124.70	151.76	10.61	152.70	26.30	2.84	2.19
300	60	21.0	2	448	8.96	7.03	1084.20	72.28	11.00	37.40	8.00	2.04	1.33
300	60	22.2	2.5	448	11.20	8.78	1349.80	89.98	10.98	46.60	10.05	2.04	1.36
300	60	23.4	3	448	13.44	10.54	1613.10	107.54	10.96	55.80	12.11	2.04	1.39
300	60	24.7	3.5	448	15.68	12.30	1874.00	124.93	10.93	65.00	14.19	2.04	1.42
300	60	25.9	4	448	17.92	13.03	2132.50	142.17	10.91	74.10	16.28	2.03	1.45
300	80	24.2	2.5	492	12.30	9.65	1587.10	105.81	11.36	97.60	16.32	2.82	2.02
300	80	25.4	3	492	14.76	11.58	1896.60	126.44	11.34	117.10	19.68	2.82	2.05
300	80	26.7	3.5	492	17.22	13.51	2203.30	146.89	11.31	136.50	23.06	2.82	2.08



h: İç yükseklik  
w: Dış yükseklik  
b: Genişlik  
t: Kalınlık  
r: Büküm yarıçapı = 2 ~ 4

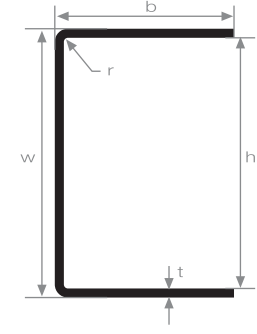
h: Inner height  
w: Outer height  
b: Width  
t: Thickness  
r: Bending radius = 2 ~ 4



h	w	b	t	açınım opening	alan area	ağırlık weight	I <sub>x</sub>	S <sub>x</sub>	r <sub>x</sub>	I <sub>y</sub>	S <sub>y</sub>	r <sub>y</sub>	e <sub>x</sub>
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
60	62	37.29	1	132	1.3200	1.0353	8.4910	2.7389	2.5362	1.9300	0.7276	1.2092	1.0762
	62.5	37.28	1.2	132	1.5840	1.2423	10.2660	3.2852	2.5458	2.3010	0.8689	1.2052	1.0801
	63	37.40	1.5	132	1.9800	1.5528	12.8990	4.0949	2.5524	2.8700	1.0846	1.2040	1.0932
	64	37.50	2	132	2.6399	2.0704	17.4170	5.4428	2.5686	3.7940	1.4373	1.1989	1.1101
	65	37.61	2.5	132	3.3000	2.5881	22.0490	6.7843	2.5848	4.7050	1.7863	1.1940	1.1273
	66	37.72	3	132	3.9599	3.1056	26.7910	8.1186	2.6011	5.5990	2.1312	1.1891	1.1442
80	82	35.79	1	149	1.4900	1.1686	15.5750	3.7987	3.2330	1.8880	0.7012	1.1256	0.8865
	82.5	35.78	1.2	149	1.7882	1.4024	18.7920	4.5556	3.2417	2.2500	0.8374	1.1218	0.8917
	83	35.90	1.5	149	2.2350	1.7528	23.5680	5.6791	3.2473	2.8050	1.0447	1.1202	0.9047
	84	36.00	2	149	2.9799	2.3370	31.7010	7.5478	3.2616	3.7040	1.3837	1.1150	0.9229
	85	36.11	2.5	149	3.7250	2.9214	39.9770	9.4063	3.2760	4.5900	1.7191	1.1100	0.9412
	86	36.22	3	149	4.4699	3.5056	48.3900	11.2530	3.2902	5.4580	2.0500	1.1050	0.9593
	87	36.33	3.5	149	5.2151	4.0900	56.9500	13.0920	3.3046	6.3140	2.3780	1.1003	0.9776
	88	36.43	4	149	5.9599	4.6741	65.6470	14.9200	3.3189	7.1530	2.7020	1.0956	0.9957
100	102	36.29	1	170	1.7000	1.3333	26.1730	5.1320	3.9237	2.0900	0.7400	1.1890	0.8041
	102.5	36.28	1.2	170	2.0400	1.5999	31.5320	6.1525	3.9315	2.4890	0.8832	1.1047	0.8095
	103	36.40	1.5	170	2.5500	1.9999	39.5200	7.6738	3.9368	3.1050	1.1024	1.1035	0.8231
	104	36.50	2	170	3.3999	2.6664	53.0410	10.2000	3.9498	4.1000	1.4600	1.0982	0.8420
	105	36.61	2.5	170	4.2500	3.3331	66.7440	12.7130	3.9629	5.0790	1.8140	1.0932	0.8610
	106	36.72	3	170	5.0999	3.9997	80.6200	15.2110	3.9759	6.0400	2.1640	1.0882	0.8799
	107	36.83	3.5	170	5.9501	4.6664	94.6800	17.6970	3.9890	6.9900	2.5100	1.0836	0.8990
	108	36.93	4	170	6.7999	5.3329	108.9100	20.1680	4.0020	7.9100	2.8520	1.0789	0.9178
120	122	40.29	1	198	1.9912	1.5616	43.3550	7.1074	4.6662	2.9420	0.9239	1.2154	0.8452
	122.5	40.28	1.2	198	2.3760	1.8634	51.6880	8.4389	4.6642	3.4950	1.1019	1.2129	0.8558
	123	40.40	1.5	198	2.9700	2.3293	64.7510	10.5290	4.6692	4.3610	1.3750	1.2117	0.8694
	124	40.50	2	198	3.9599	2.1056	86.8000	14.0000	4.6818	5.7600	1.8230	1.2064	0.8886
	125	40.61	2.5	198	4.9500	3.8821	109.0900	17.4540	4.6945	7.1400	2.2660	1.2014	0.9079
	126	40.72	3	198	5.9399	4.6584	131.6100	20.8900	4.7071	8.5000	2.7040	1.1964	0.9271
	127	40.83	3.5	198	6.9301	5.4350	154.3700	24.3110	4.7197	9.8400	3.1380	1.1916	0.9464
	128	40.93	4	198	7.9199	6.2113	177.3600	27.7130	4.7323	11.1600	3.5670	1.1869	0.9655
140	142.5	50.28	1.2	238	2.8560	2.2398	86.1100	12.0860	5.4911	6.7400	1.7140	1.5359	1.0975
	143	50.40	1.5	238	3.5700	2.7998	107.8500	15.0840	5.4963	8.4100	2.1400	1.5346	1.1110
	144	50.50	2	238	4.7599	3.7330	144.4800	20.0670	5.5094	11.1300	2.8400	1.5293	1.1300
	145	50.61	2.5	238	5.9500	4.6664	181.4700	25.0300	5.5226	13.8200	3.5330	1.5241	1.1491
	146	50.72	3	238	7.1399	5.5996	218.7900	29.9710	5.5356	16.4700	4.2200	1.5189	1.1680
	147	50.83	3.5	238	8.3301	6.5330	256.4700	34.8940	5.5487	19.0900	4.9020	1.5140	1.1871
	148	50.93	4	238	9.5199	7.4661	294.4800	39.7950	5.5618	21.6800	5.5770	1.5090	1.2060

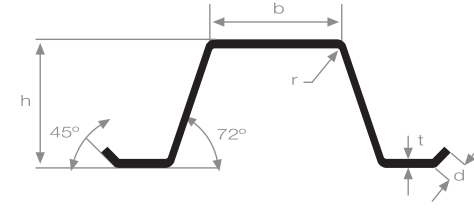
h: İç yükseklik  
w: Dış yükseklik  
b: Genişlik  
t: Kalınlık  
r: Büküm yarıçapı = 2 ~ 4

h: Inner height  
w: Outer height  
b: Width  
t: Thickness  
r: Bending radius = 2 ~ 4



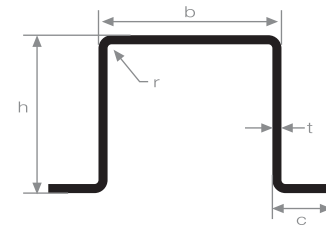
h	w	b	t	açınım opening	alan area	ağırlık weight	I <sub>x</sub>	S <sub>x</sub>	r <sub>x</sub>	I <sub>y</sub>	S <sub>y</sub>	r <sub>y</sub>	e <sub>x</sub>
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
160	164	40.50	2	238	4.7599	3.7330	170.5500	20.7990	5.9860	6.1800	1.8760	1.1390	0.7560
	165	40.61	2.5	238	5.9500	4.6664	213.9700	25.9360	5.9970	7.6600	2.3320	1.1350	0.7760
	166	40.72	3	238	7.1399	5.5996	257.6900	31.0470	6.0080	9.1100	2.7830	1.1300	0.7960
	167	40.83	3.5	238	8.3301	6.5330	301.7400	36.1370	6.0190	10.5500	3.2300	1.1250	0.8170
	168	40.93	4	238	9.5199	7.4661	346.0800	41.2000	6.0290	11.9600	3.6720	1.1210	0.8370
180	184	35.50	2	248	4.9599	3.8899	209.7400	22.7980	6.5030	4.3400	1.4620	0.9360	0.5800
	185	35.61	2.5	248	6.2000	4.8625	262.9200	28.4270	6.5120	5.3800	1.8170	0.9310	0.6010
	186	35.72	3	248	7.4399	5.8348	316.4400	34.0250	6.5220	6.3900	2.1670	0.9270	0.6220
	187	35.83	3.5	248	8.6801	6.8075	370.2500	39.5990	6.5310	7.3900	2.5150	0.9230	0.6430
	188	35.93	4	248	9.9199	7.7798	424.3400	45.1420	6.5400	8.3700	2.8600	0.9190	0.6640
200	204	50.50	2	298	5.9599	4.6741	333.1900	32.6650	7.4770	12.1500	2.9440	1.4280	0.9230
	205	50.61	2.5	298	7.4500	5.8428	417.7200	40.7530	7.4880	15.0900	3.6630	1.4230	0.9430
	206	50.72	3	298	8.9399	7.0112	502.7100	48.8070	7.4990	17.9800	4.3750	1.4180	0.9630
	207	50.83	3.5	298	10.4300	8.1799	588.2300	56.8340	7.5100	20.8300	5.0830	1.4130	0.9830
	208	50.93	4	298	11.9200	9.3483	674.2000	64.8270	7.5210	23.6500	5.7830	1.4090	1.0030
220	224	40.50	2	298	5.9599	4.6741	369.5800	32.9980	7.8750	6.6000	1.9250	1.0520	0.6240
	225	40.61	2.5	298	7.4500	5.8428	463.0500	41.1600	7.8840	8.1800	2.3940	1.0480	0.6450
	226	40.72	3	298	8.9399	7.0112	556.9200	49.2850	7.8930	9.7300	2.8570	1.0430	0.6660
	227	40.83	3.5	298	10.4300	8.1799	651.2500	57.3790	7.9020	11.2600	3.3170	1.0390	0.6880
	228	40.93	4	298	11.9200	9.3483	745.9600	65.4350	7.9110	12.7700	3.7730	1.0350	0.7090
240	244	36.50	2	310	6.1999	4.8624	435.2700	35.6780	8.3790	4.9500	1.5760	0.8940	0.5070
	245	36.61	2.5	310	7.7500	6.0781	545.1400	44.5010	8.3870	6.1400	1.9590	0.8900	0.5290
	246	36.72	3	310	9.2999	7.2936	655.3900	53.2840	8.3950	7.3000	2.3380	0.8860	0.5500
	247	36.83	3.5	310	10.8500	8.5093	766.1000	62.0320	8.4030	8.4400	2.7150	0.8820	0.5720
	248	36.93	4	310	12.4000	9.7248	877.1600	70.7390	8.4110	9.5700	3.0880	0.8790	0.5940
260	264	36.50	2	330	6.5999	5.1761	533.0700	40.3840	8.8970	5.0200	1.5840	0.8720	0.4820
	265	36.61	2.5	330	8.2500	6.4702	667.4800	50.3760	8.9950	6.2200	1.9690	0.8680	0.5040
	266	36.72	3	330	9.8999	7.7641	802.3000	60.3230	9.0020	7.3900	2.3500	0.8640	0.5260
	267	36.83	3.5	330	11.5500	9.0583	937.6100	70.2330	9.0100	8.5600	2.7290	0.8610	0.5480
	268	36.93	4	330	13.2000	10.3520	1073.3000	80.0980	9.0170	9.7000	3.1060	0.8570	0.5700
280	284	59.50	2	396	7.9199	6.2113	826.9800	58.2380	10.2190	20.7900	4.1710	1.6200	0.9640
	285	59.61	2.5	396	9.9000	7.7642	1035.8000	72.6860	10.2290	25.8000	5.1930	1.6150	0.9850
	286	59.72	3	396	11.8800	9.3170	1245.3000	87.0860	10.2380	30.8000	6.2060	1.6110	1.0060
	287	59.83	3.5	396	13.8600	10.8700	1455.7000	101.4500	10.2480	35.7000	7.2100	1.6060	1.0270
	288	59.93	4	396	15.8400	12.4230	1666.9000	115.7600	10.2580	40.6000	8.2100	1.6010	1.0480
300	304	49.50	2	396	7.9199	6.2113	887.6400	58.3970	10.5870	12.4300	2.9220	1.2530	0.6940
	305	49.61	2.5	396	9.9000	7.7642	1111.4000	72.8760	10.5950	15.4000	3.6360	1.2490	0.7160
	306	49.72	3	396	11.8800	0.9317	1335.7000	87.3040	10.6040	18.4000	4.3430	1.2440	0.7370
	307	49.83	3.5	396	13.8600	10.8700	1560.9000	101.6900	10.6120	21.3000	5.0500	1.2400	0.7590
	308	49.93	4	396	15.8400	12.4223	1786.7000	116.2000	10.6210	24.2000	5.7400	1.2360	0.7800

b: Genişlik	b: Width
d: Büküm	d: Bending
h: Yükseklik	h: Height
c: Tırnak uzunluğu	c: Lip length
t: Kalınlık	t: Thickness
r: Büküm yarıçapı = 2 ~ 4	r: Bending radius = 2 ~ 4



b	h	c	d	t	açınım opening	alan area	ağırlık weight	$I_x$	$S_x$	$r_x$	$I_y$	$S_y$	$r_y$	$e_x$
mm	mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
35	39.7	12	5.8	0.7	149	1.04	0.81	2.44	1.22	1.53	6.99	1.52	2.59	4.57
		12	6.0	0.8		1.19	0.93	2.78	1.39	1.52	8.00	1.74	2.59	4.58
		12	6.4	1		1.48	1.16	3.45	1.72	1.52	10.00	2.17	2.59	4.59
		12	6.9	1.2		1.78	1.40	4.11	2.06	1.51	12.05	2.61	2.59	4.60
		12	7.5	1.5		2.23	1.75	5.07	2.53	1.50	15.08	3.26	2.59	4.62
		12	8.5	2		2.97	2.33	6.61	3.26	1.49	20.13	4.33	2.60	4.64

b: Genişlik	b: Width
h: Yükseklik	h: Height
c: Tırnak uzunluğu	c: Lip length
t: Kalınlık	t: Thickness
r: Büküm yarıçapı = 2 ~ 4	r: Bending radius = 2 ~ 4

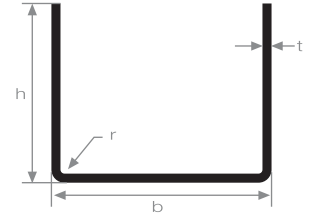


b	h	c	t	açınım opening	alan area	ağırlık weight	$I_x$	$S_x$	$r_x$	$I_y$	$S_y$	$r_y$	$e_x$
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
35	40	12	0.8	130	1.0397	0.8154	2.3390	1.2946	1.4999	2.9640	1.0328	1.6885	2.8700
		12.5	1		1.2999	1.0195	2.9120	1.5978	1.4968	3.7140	1.2808	1.6904	2.9000
		13	1.2		1.5602	1.2236	3.4800	1.8929	1.4935	4.4700	1.5256	1.6926	2.9300
		13.7	1.5		1.9494	1.5289	4.3140	2.3192	1.4877	5.6030	1.8865	1.6953	2.9700
		14.9	2		2.5987	2.0380	5.6740	2.9908	1.4776	7.5310	2.4773	1.7024	3.0400

b	h	c	t	açınım opening	alan area	ağırlık weight	$I_x$	$S_x$	$r_x$	$I_y$	$S_y$	$r_y$	$e_x$
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
35	50	11.5	0.8	149	1.1917	0.9346	3.9610	1.7434	1.8232	3.3670	1.1941	1.6810	2.8200
		12	1		1.4899	1.1685	4.9400	2.1575	1.8208	4.2100	1.4771	1.6809	2.8500
		12.5	1.2		1.7882	1.4024	5.9120	2.5629	1.8183	5.0540	1.7550	1.6812	2.8800
		13.2	1.5		2.2344	1.7524	7.3480	3.1529	1.8135	6.3150	2.1627	1.6811	2.9200
		14.4	2		2.9787	2.3361	9.7060	4.0938	1.8051	8.4390	2.8226	1.6832	2.9900

h: Yükseklik  
b: Genişlik  
t: Kalınlık  
r: Büküm yarıçapı = 2 ~ 4

h: Height  
b: Width  
t: Thickness  
r: Bending radius = 2 ~ 4



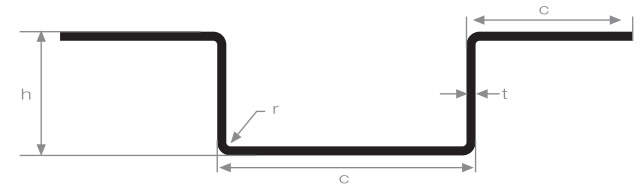
b	h	t	açınım opening	alan area	ağırlık weight	$I_x$	$S_x$	$r_x$	$I_y$	$S_y$	$r_y$	$e_x$
mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
35	29.5	0.8	90	0.7193	0.5641	0.6748	0.3431	0.9686	1.5673	0.8956	1.4761	1.7500
	29.8	1		0.9003	0.7060	0.8565	0.4336	0.9754	1.9435	1.1106	1.4693	1.7500
	30	1.2		1.0793	0.8464	1.0341	0.5229	0.9789	2.3066	1.3181	1.4619	1.7500
	30.4	1.5		1.3502	1.0589	1.3160	0.6625	0.9874	2.8440	1.6253	1.4514	1.7500
	31	2		1.7999	1.4116	1.7980	0.8995	0.9994	3.6990	2.1139	1.4336	1.7500

b	h	t	açınım	alan	ağırlık	$I_x$	$S_x$	$r_x$	$I_y$	$S_y$	$r_y$	$e_x$
mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
35	39.5	0.8	110	0.8793	0.6896	1.4850	0.5896	1.2994	2.0350	1.1630	1.5214	1.7500
	39.8	1		1.1002	0.8629	1.8760	0.7428	1.3057	2.5220	1.4409	1.5139	1.7500
	40	1.2		1.3193	1.0347	2.2590	0.8941	1.3087	2.9920	1.7099	1.5061	1.7500
	40.4	1.5		1.6502	1.2942	2.8600	1.1281	1.3164	3.6870	2.1066	1.4947	1.7500
	41	2		2.1999	1.7253	3.8750	1.5228	1.3271	4.7900	2.7370	1.4755	1.7500

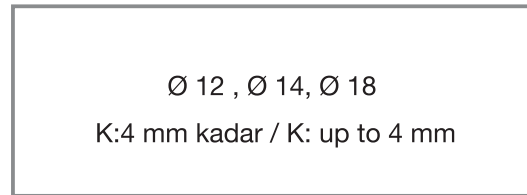
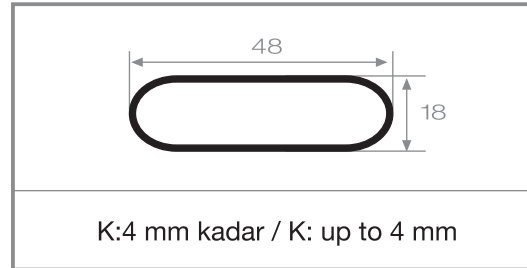
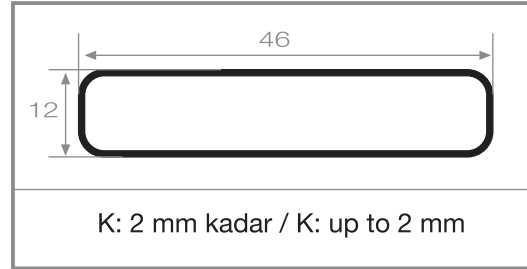
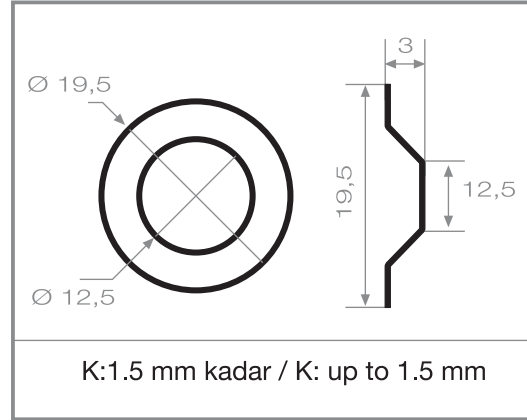
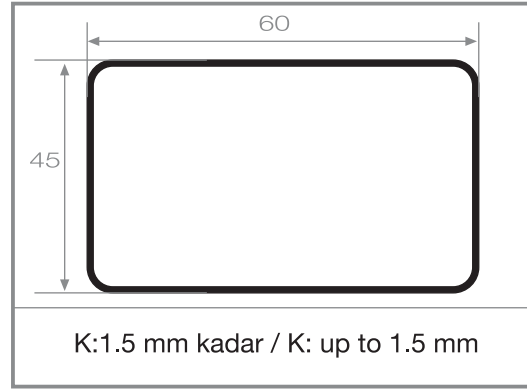
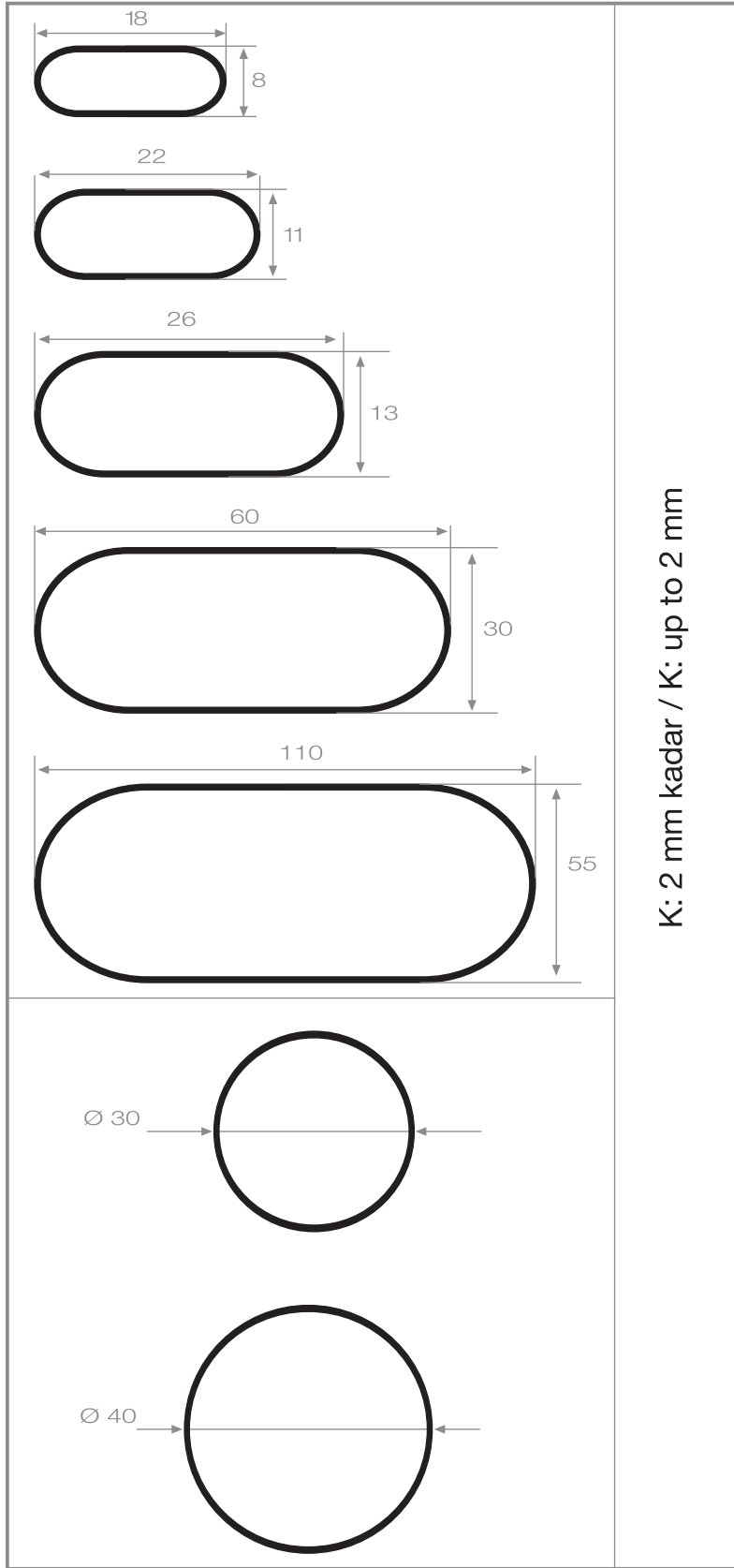
b	h	t	açınım	alan	ağırlık	$I_x$	$S_x$	$r_x$	$I_y$	$S_y$	$r_y$	$e_x$
mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
35	49.5	0.8	130	1.0393	0.8151	2.7310	0.8944	1.6210	2.5030	1.4304	1.5519	1.7500
	49.8	1		1.3002	1.0197	3.4410	1.1246	1.6268	3.1000	1.7713	1.5440	1.7500
	50	1.2		1.5593	1.2229	4.1400	1.3525	1.6294	3.6780	2.1018	1.5359	1.7500
	50.4	1.5		1.9502	1.5294	5.2230	1.7023	1.6365	4.5290	2.5879	1.5239	1.7500
	51	2		2.5999	2.0390	7.0450	2.2903	1.6461	5.8800	3.3600	1.5039	1.7500

b: Genişlik  
h: Yükseklik  
c: Tırnak uzunluğu  
t: Kalınlık  
r: Büküm yarıçapı = 2 ~ 4

b: Width  
h: Height  
c: Lip length  
t: Thickness  
r: Bending radius = 2 ~ 4



b	h	c	t	açınım opening	alan area	ağırlık weight	$I_x$	$S_x$	$r_x$	$I_y$	$S_y$	$r_y$	$e_x$
mm	mm	mm	mm	mm	F/cm <sup>2</sup>	kg/m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm
40	30	19	0.6	130	0.7796	0.6114	1.1696	0.7578	1.2248	3.5069	0.9133	2.1209	3.8400
		19.5	0.8		1.0397	0.8154	1.5440	1.0079	1.2187	4.7130	1.2179	2.1291	3.8700
		20	1		1.2999	1.0195	1.9110	1.2565	1.2124	5.9400	1.5231	2.1377	3.9000
		20.5	1.2		1.5602	1.2236	2.2690	1.5033	1.2060	7.1890	1.8293	2.1465	3.9300



\*\* PROFACTO profillerinde istenilen yerde açılacak boşluk ölçüleri

\*\* PROFACTO profiles space dimensions to be opened at the requested place

L:1000'LİK SACIN KESİM LİSTESİ (996 mm'Sİ KULLANILABİLİYOR)  
L:1000 SHEET IRON CUTTING LIST (996 mm CAN BE USED)

kesim adeti / cutting number								
2	3	4	5	6	7	8	9	10
498	332	249	199	166	142	124	110	99

L:1200'LÜK SACIN KESİM LİSTESİ (1196 mm'Sİ KULLANILABİLİYOR)  
L:1200 SHEET IRON CUTTING LIST (1196 mm CAN BE USED)

kesim adeti / cutting number								
2	3	4	5	6	7	8	9	10
598	398	299	239	199	170	149	132	119

L:1219'LUK SACIN KESİM LİSTESİ (1215 mm'Sİ KULLANILABİLİYOR)  
L:1219 SHEET IRON CUTTING LIST (1215 mm CAN BE USED)

kesim adeti / cutting number								
2	3	4	5	6	7	8	9	10
607	405	303	243	202	173	151	135	121

L:1250'LİK SACIN KESİM LİSTESİ (1246 mm'Sİ KULLANILABİLİYOR)  
L:1250 SHEET IRON CUTTING LIST (1246 mm CAN BE USED)

kesim adeti / cutting number								
2	3	4	5	6	7	8	9	10
623	415	311	249	207	178	155	138	124

\*\*\* PROFACTO profillerinde kullanılan rulo sacların firesiz dilme ölçüleridir.

\*\*\* PROFACTO profiles used roll sheet iron's no loss slitting diameters.





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