

OBA PASLANMAZ



"Paslanmaz boru ve profilde uzman"

"Specialist in stainless steel tubes and box sections."

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Paslanmaz boru ve profil sektöründe firmamız; Avrupa ve Uzakdoğu bağlantıları ile, Türkiye piyasasında kısa zamanda lider konuma yükselmiştir. Firmamız, gerek geniş ürün yelpazesi, gerek insan kaynakları kalitesi, gerekse hızlı transferi ile her türlü isteğe cevap verecek yeterli konuma ve birikime sahiptir.

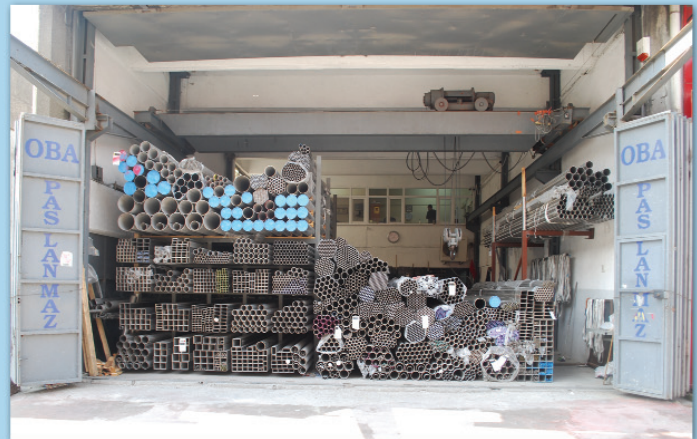
Avrupa'dan ithalatını yapmış olduğumuz dikişli boru ve profiller; sanayinin her alanında kullanılmaktadır. Şimdilik tekstil, gıda, endüstri makineleri, kimya, otomotiv, petrokimya ve denizcilik sektörleri için hazır stoklarımız bulunmaktadır. Ayrıca Uzakdoğu'dan ithal ettiğimiz polisajlı ve satineli boru ve profil stoklarımızla dekorasyon ve endüstriyel mutfak üreticilerinin de isteklerine cevap vermekteyiz. Ancak firmamız bununla yetinmeyip, siz değerli müşterilerimizin taleplerine göre ürün yelpazesini genişletmeyi, katkılarınızla bu alanda daha fazla söz sahibi olmayı planlamaktadır.

Piyasadaki talep doğrultusunda, 304 / 304L / 316 / 316L / 316Ti / kalite malzemelerini sürekli olarak stoklarında bulunduran firmamız, bu kalitelerin haricinde, çeşitli sektörlerde kullanılmak üzere özel kalite paslanmaz çelikleri de yine talepleriniz üzere kısa sürede temin etmektedir.

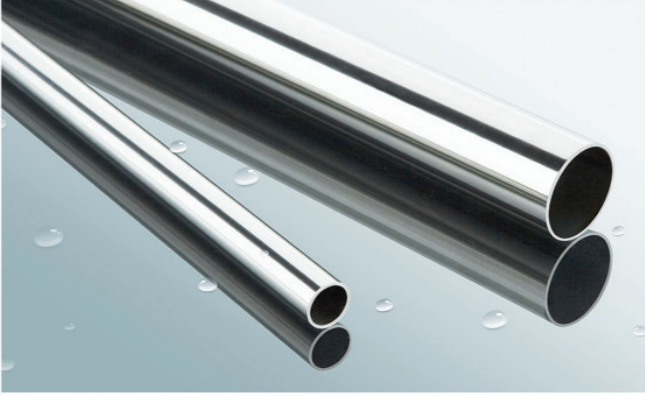
In the stainless steel pipes and profile sector, in Turkey market, our company has become the leader with the cooperation with Europe and Far East contacts in a short time. Our company can respond with its satisfactory / sufficient resources / accumulations to any demand, in the aspects of wide product range, human resources quality and rapid transfer.

Welded pipes and profiles, imported from Europe by our company, are used in every field of industry. For the present, we have available stocks for textile, food, industrial machinery, chemical, automotive, petrochemical, and maritime industry. Also we can repond to the decoration and industrial kitchen equipment producer / manufacturer with mirror polished and satinato pipes and profiles stocks imported from Far East. Our company is not only contented with existing products, but also, we plan to wide our product range according to your demands and cooperation.

According to demand of the market, we have perpetual / continuous stocks of materials with quality of 304 / 304 / 316 / 316L / 316Ti. Furthermore, we can also ensure special quality of stainless steels to use in different sectors in a short time.



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Ürün yelpazemiz Products

•PASLANMAZ SANAYİ BORULARI
STAINLESS STEEL INDUSTRIAL TUBES

•PASLANMAZ DEKORASYON BORULARI
STAINLESS STEEL DECORATION TUBES

•PASLANMAZ GIDA BORULARI
STAINLESS STEEL DAIRY TUBES

•PASLANMAZ PROFİLLER
STAINLESS STEEL SQUARE & RECTANGULAR TUBES

•PASLANMAZ POLİSAJLI BORULAR
STAINLESS STEEL POLISHED TUBES

•PASLANMAZ POLİSAJLI PROFİLLER
STAINLESS STEEL POLISHED SQUARE &
RECTANGULAR TUBES

•PASLANMAZ KANALLI BORULAR
STAINLESS STEEL U CHANNELED TUBES

•PASLANMAZ OVAL BORULAR
STAINLESS STEEL OVAL TUBES

•PASLANMAZ OTOMOTİV BORULARI
STAINLESS STEEL AUTOMOTIVE TUBES

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Paslanmaz Dikişli Borular

Stainless steel welded tubes

Ana İmalat Standartları

Main manufacturing standards

| İMALAT STANDARTI Manufacturing Standard | ÜRÜN KULLANIM ALANLARI Product Designation | KALİTE (EN) Grade EN | KALİTE AISI Grade AISI | |
|-----------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------|
| SIVI UYGULAMALAR İÇİN BORULAR PROCESS PIPES FOR FLUIDS | EN 10217-7 (A 270) (DIN 11850) | Gıda ve süt endüstrisinde kullanılan borular Process pipes for the food and dairy industry | 1.4301 1.4307 1.4404 | 304 304L 316L |
| | EN 10217-7 (DVGW GW541) | İçilebilir su ve press fittings uygulamalarında kullanılan borular Process pipes for drinkable water and press fitting | 1.4404 1.4521 | 316L 444 |
| | EN 10217-7 EN 10312 | Su arıtma uygulamalarında kullanılan borular Process pipes for water treatment | 1.4301 1.4307 1.4404 1.4541 1.4571 | 304 304L 316L 321 316Ti |
| | EN 10217-7 | Kağıt ve kağıt hamur sanayi uygulamalarında kullanılan borular Process pipes for the pulp and paper sector | 1.4301 1.4307 1.4404 1.4541 1.4571 | 304 304L 316L 321 316Ti |
| | EN 10217-7 (AD 2000 W2/W10) (PED 97/23) | Kimyasal uygulamalarda kullanılan borular Process pipes for chemical applications | 1.4301 1.4307 1.4404 1.4541 1.4571 | 304 304L 316L 321 316Ti |
| | EN 10217-7 (DIN 11866) | İlaç sanayi endüstrisi uygulamalarında kullanılan borular Process pipes for pharmaceutical applications | 1.440 | 316L |
| | EN 10217-7 (A 312 / A 778) | Yağ ve gaz sanayi uygulamalarında kullanılan borular Process pipes for oil and gas applications | 14307 14404 | 304L 316L |





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| | İMALAT STANDARTI STANDARD Manufacturing Standard | ÜRÜN KULLANIM ALANLARI Product Designation | KALİTE EN Grade EN | KALİTE AISI Grade AISI |
|------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|
| MEKANİK UYGULAMALAR MECHANICAL APPLICATIONS | EN 10296 EN 10217-7 | Pompa ve silindirler için yuvarlak borular Round tubes for pumps and cylinders | 1.4301 1.4307 1.4404 1.4541 1.4571 | 304 304L 316L 321 316Ti |
| | EN 10217-7 | Dirsekler ve fittingsler için yuvarlak borular Round tubes for elbows and fittings | 1.4301 1.4307 1.4404 1.4541 1.4571 | 304 304L 316L 321 316Ti |
| | EN 10217-7 | Sıcağa dayanıklı yuvarlak borular Round tubes for heat resistances | 1.4301 1.4307 1.4404 1.4541 1.4571 1.4876 2.4858 | 304 304L 316L 321 316Ti Incoloy 800 Incoloy 825 |
| ISIL İŞLEMLER HEAT TREATMENT | EN 10217-7 (A 249) (AD 2000 W2/W10) (PED 97/23) | Isı eşanjörü için yuvarlak borular Round tubes for heat exchangers | 1.4301 1.4307 1.4404 1.4541 1.4571 | 304 304L 316L 321 316Ti |
| | EN 10296 EN 10217-7 | Şeker endüstrisinde kullanılan evaporatörler için yuvarlak borular Round tubes for evaporators for the sugar industry | 1.4301 1.4307 1.4404 1.4541 1.4571 1.4509 1.4510 | 304 304L 316L 321 316Ti 441 439 |
| | EN 10217-7 (AD 2000 W2/W10) | Basınçlı kaplarda kullanılan yuvarlak borular Round tubes for pressure vessels | 1.4301 1.4307 1.4404 1.45241 1.4571 | 304 304L 316L 321 316Ti |
| | EN 10217-7 | Buhar kazanlarında kullanılan yuvarlak borular Tubes for boilers | 1.4301 1.4307 1.4404 1.4541 1.4571 | 304 304L 316L 321 316Ti |



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| | İMALAT STANDARTI STANDARD Manufacturing Standard | ÜRÜN KULLANIM ALANLARI Product Designation | KALİTE EN Grade EN | KALİTE AISI Grade AISI |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| YAPISAL CONSTRUCTION | EN 10296 (A 554) | Yapısal yuvarlak borular ve kutu profiller Construction round tubes and box sections | 1.4301 | 304 |
| | | | 1.4307 | 304L |
| | | | 1.4404 | 316L |
| | | | 1.4541 | 321 |
| | | | 1.4571 | 316Ti |
| | | | 1.4509 | 441 |
| 1.4510 | 439 | | | |
| DEKORASYON ORNAMENTAL | EN 10296 (A 554) | Dekorasyon için kullanılan yuvarlak borular ve kutu profiller Ornamental round tubes and box sections | 1.4301 | 304 |
| | | | 1.4307 | 304L |
| | | | 1.4404 | 316L |
| | | | 1.4541 | 321 |
| | | | 1.4571 | 316Ti |
| | | | 1.4509 | 441 |
| 1.4510 | 439 | | | |
| 1.4521 | 444 | | | |
| OTOMOTİV AUTOMOTIVE | EN 10296 (A 554) | Egzoz sistemlerinde kullanılan yuvarlak borular Round tubes for automotive, exhaust systems | 1.4301 | 304 |
| | | | 1.4307 | 304L |
| | | | 1.4512 | 409 |
| | | | 1.4509 | 441 |
| | | | 1.4510 | 439 |
| | | | 1.4510 | 439 |
| | EN 10296 (A 554) | Otomotiv için yuvarlak borular ve özel şekillendirmeler (hydroforming) Round tubes for automotive, hydroforming appliance | 1.4301 | 304 |
| | | | 1.4307 | 304L |
| | | | 1.4404 | 316L |
| | | | 1.4541 | 321 |
| | | | 1.4571 | 316Ti |
| | | | 1.4512 | 409 |
| 1.4509 | 441 | | | |
| 1.4510 | 439 | | | |
| EN 10296 (A 554) | Otomotiv sektörü şasi yapısı için kullanılan yuvarlak borular ve kutu profiller Round tubes and box sections for automotive frame construction | 1.4301 | 304 | |
| | | 1.4307 | 304L | |



ANA ÇELİK KALİTELERİ

Main steel grades

| METAL YAPISI Metal Structure | KALİTE Grade | | KİMYASAL ALAŞIMI Typical Chemical Composition | | | | | | | | | | | | |
|---------------------------------|-----------------|-------------|--------------------------------------------------|-------------|-------------|-----------|---------------------|---------------------|-----------|-----------|---------|---------|-----------|-----------|---------------------|
| | EN | AISI | C | Ni | Cr | Mo | Ti | Nb | Mn | Si | P | S | N | Cu | Diğerleri Others |
| Austenitic | 1.4301 | 304 | ≤ 0,07 | 8,00-10,50 | 17,00-19,50 | - | - | - | ≤ 2,00 | ≤ 1,00 | ≤ 0,045 | ≤ 0,015 | ≤ 0,10 | - | - |
| Austenitic | 1.4307 | 304L | ≤ 0,03 | 8,00-10,00 | 17,50-19,50 | - | - | - | ≤ 2,00 | ≤ 1,00 | ≤ 0,045 | ≤ 0,015 | ≤ 0,10 | - | - |
| Austenitic | 1.4541 | 321 | ≤ 0,08 | 9,00-12,00 | 17,00-19,00 | - | 5xC-0,70 | - | ≤ 2,00 | ≤ 1,00 | ≤ 0,045 | ≤ 0,015 | - | - | - |
| Austenitic | 1.4404 | 316L | ≤ 0,03 | 10,00-13,00 | 16,50-18,50 | 2,00-2,50 | - | - | ≤ 2,00 | ≤ 1,00 | ≤ 0,045 | ≤ 0,015 | ≤ 0,10 | - | - |
| Austenitic | 1.4571 | 316Ti | ≤ 0,08 | 10,50-13,50 | 16,50-18,50 | 2,00-2,50 | 5xC-0,70 | - | ≤ 2,00 | ≤ 1,00 | ≤ 0,045 | ≤ 0,015 | - | - | - |
| Austenitic | 1.4828 | 309S | ≤ 0,20 | 11,00-13,00 | 19,00-21,00 | - | - | - | ≤ 2,00 | 1,50-2,50 | ≤ 0,045 | ≤ 0,030 | - | - | - |
| Austenitic | 1.4371 | 201LN | ≤ 0,030 | 3,50-5,50 | 16,00-17,00 | - | - | - | 6,00-8,00 | ≤ 1,00 | ≤ 0,045 | ≤ 0,015 | 0,15-0,20 | - | - |
| Ni Alloy | 2.4816 | Inconel 600 | ≤ 0,15 | ≥ 72,00 | 14,70-17,00 | - | - | - | ≤ 1,00 | ≤ 0,50 | - | ≤ 0,015 | - | ≤ 0,50 | - |
| Ni Alloy | 2.4851 | Inconel 601 | ≤ 0,10 | 58,00-63,00 | 21,00-25,00 | - | - | - | ≤ 1,00 | ≤ 0,50 | - | ≤ 0,015 | - | ≤ 1,00 | - |
| Super Austenitic | 1.4876 | Incoloy 800 | ≤ 0,10 | 30,00-35,00 | 19,00-23,00 | - | 0,15-0,60 | - | ≤ 1,50 | ≤ 1,00 | - | ≤ 0,015 | - | ≤ 0,75 | Al 0,15-0,60 |
| Ni Alloy | 2.4858 | Incoloy 825 | ≤ 0,05 | 38,00-46,00 | 19,50-23,50 | 2,50-3,50 | 0,60-1,20 | - | ≤ 1,00 | ≤ 0,50 | - | ≤ 0,030 | - | 1,50-3,00 | Al ≤ 0,20 |
| Ferritic | 1.4512 | 409 | ≤ 0,03 | - | 10,50-12,50 | - | - | - | ≤ 1,00 | ≤ 1,00 | ≤ 0,040 | ≤ 0,015 | - | - | - |
| Ferritic | 1.4526 | 436 | ≤ 0,080 | - | 16,00-18,00 | 0,80-1,40 | - | [7X(C+N)+0,10]-1,00 | ≤ 1,00 | ≤ 1,00 | ≤ 0,040 | ≤ 0,015 | ≤ 0,040 | - | - |
| Ferritic | 1.4510 | 439 | ≤ 0,050 | - | 16,00-18,00 | - | [4x(C+N)+0,15]-0,80 | - | ≤ 1,00 | ≤ 1,00 | ≤ 0,040 | ≤ 0,015 | - | - | - |
| Ferritic | 1.4509 | 441 | ≤ 0,03 | - | 17,50-18,50 | - | 0,10-0,60 | [3xC+0,30]-1,00 | ≤ 1,00 | ≤ 1,00 | ≤ 0,040 | ≤ 0,015 | - | - | - |
| Ferritic | 1.4521 | 444 | ≤ 0,025 | - | 17,00-20,00 | 1,80-2,50 | [4x(C+N)+0,15]-0,80 | - | ≤ 1,00 | ≤ 1,00 | ≤ 0,040 | ≤ 0,015 | ≤ 0,030 | - | - |
| Duplex | 1.2101 | ATI 2003 | ≤ 0,030 | 3,00-4,00 | 19,50-22,50 | 1,50-2,00 | - | - | ≤ 2,00 | ≤ 1,00 | ≤ 0,030 | ≤ 0,020 | 0,14-0,20 | - | - |



STANDART ve OPSİYONEL TESTLER

Standard and optional testing

Kimyasal alaşım - Chemical composition

Mikrografik analiz - Micrographic analysis

Oda sıcaklığında yada diğer sıcaklıkta çekme teste

Tensile test at room temperature or other temperature

Kimyasal alaşım - Flattening test

Mikrografik analiz - Expansion test

Radyal genleşme testi - Radial expansion test

Bükme testi - Bending test

Elektromanyetik test - Electromagnetic test

Tahribatsız girdap akımı testi

Non destructive eddy current weld test

Ölçüsel kontrol testi - Dimensional test

Görsel kontrol teti - Visual test

Yüzey pürüzsüzlük testi - Surface roughness measurement

Tuzlu su korozyon testi - Salt spray test

Korozyon izler için testler - Test for corrosive traces

Tane sınırı aşınması testi - Intergranular corrosion test

Potansiyel korozyon - Potentiostatic corrosion test

Tane büyüklüğü ölçümü - Grain size measurement

Demir ölçümü - Ferrite measurement

Kapma testi - Rupture test

Özel sertifikaların basımı - Release of special certificates

ÖZEL UYGULAMALAR

Optional Processing

Isıl işlem - Heat treatments

Asitleme - Pickling

Dış yüzey fırçalama - Outer surface brushing

İç ve dış yüzey polisajlama - Inner and outer surface polishing

İç ve dış yüzey ayna polisajlama

Inner and outer surface mirror polishing

Boruları tek tek poşetleme - Tubes individually sleeved

Kaynak izi ezme ve kaynak izi alma - Bead rolling or weld seam removing

Boya göre kesim - Cut to length

Müşterinin belirlediği markalama - Customer defined marking

Müşterinin belirlediği toleranslar - Customer defined tolerances

Dikiş pozisyonu (Kutu profiller)

Welding position (box sections)

Özel paketleme - Special packaging

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Paslanmaz Dikişli Borular

Round stainless steel welded tubes

| diş çap outside diameter mm | BORULAR EN 10217-7, EN 10296 Round tubes EN 10217-7, EN 10296 | | | | | | | | | | | | | ağırlık weight kg/m |
|-----------------------------------|------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------------------------|
| | et kalınlığı / wall thickness mm | | | | | | | | | | | | | |
| | 0,80 | 1 | 1,2 | 1,5 | 1,6 | 2 | 2,5 | 2,6 | 3 | 3,2 | 3,6 | 4 | 5 | 6 |
| 6 | | 0,125 | | | | | | | | | | | | |
| 8 | 0,144 | 0,175 | | | | | | | | | | | | |
| 10 | 0,184 | 0,225 | 0,264 | 0,319 | | | | | | | | | | |
| 12 | 0,224 | 0,275 | 0,325 | 0,394 | 0,417 | 0,501 | | | | | | | | |
| 12,7 | 0,238 | 0,293 | 0,346 | 0,421 | 0,445 | | | | | | | | | |
| 14 | 0,264 | 0,326 | 0,385 | 0,470 | 0,497 | 0,601 | | | | | | | | |
| 15 | 0,284 | 0,351 | 0,415 | 0,507 | 0,537 | 0,651 | | | | | | | | |
| 16 | 0,304 | 0,376 | 0,445 | 0,545 | 0,577 | 0,701 | | | | | | | | |
| 17,2 | 0,329 | 0,406 | 0,481 | 0,590 | 0,625 | 0,761 | 0,920 | 0,951 | 1,067 | | | | | |
| 18 | 0,345 | 0,426 | 0,505 | 0,620 | 0,657 | 0,801 | 0,970 | 1,003 | 1,127 | | | | | |
| 19 | 0,365 | 0,451 | 0,535 | 0,657 | 0,697 | 0,851 | 1,033 | 1,068 | 1,202 | | | | | |
| 19,05 | 0,366 | 0,452 | 0,536 | 0,659 | 0,699 | 0,854 | 1,036 | 1,071 | 1,206 | | | | | |
| 20 | 0,385 | 0,476 | 0,565 | 0,695 | 0,737 | 0,901 | 1,096 | 1,133 | 1,277 | | | | | |
| 21,3 | 0,411 | 0,508 | 0,604 | 0,744 | 0,789 | 0,967 | 1,177 | 1,217 | 1,375 | | | | | |
| 22 | 0,425 | 0,526 | 0,625 | 0,770 | 0,817 | 1,002 | 1,221 | 1,263 | 1,427 | | | | | |
| 23 | 0,445 | 0,551 | 0,655 | 0,808 | 0,857 | 1,052 | 1,283 | 1,328 | 1,502 | | | | | |
| 24 | 0,465 | 0,576 | 0,685 | 0,845 | 0,897 | 1,102 | 1,346 | 1,393 | 1,578 | | | | | |
| 25 | 0,485 | 0,601 | 0,715 | 0,883 | 0,937 | 1,152 | 1,409 | 1,458 | 1,653 | | | | | |
| 25,4 | 0,493 | 0,611 | 0,727 | 0,898 | 0,954 | 1,172 | 1,434 | 1,484 | 1,683 | | | | | |
| 26,9 | 0,523 | 0,649 | 0,772 | 0,954 | 1,014 | 1,247 | 1,527 | 1,582 | 1,795 | | | | | |
| 28 | 0,545 | 0,676 | 0,805 | 0,995 | 1,058 | 1,302 | 1,596 | 1,654 | 1,878 | | | | | |
| 29 | 0,565 | 0,701 | 0,835 | 1,033 | 1,098 | 1,352 | 1,659 | 1,719 | 1,953 | | | | | |
| 30 | 0,585 | 0,726 | 0,865 | 1,070 | 1,138 | 1,402 | 1,722 | 1,784 | 2,028 | | | | | |
| 31,80 | 0,621 | 0,771 | 0,919 | 1,138 | 1,210 | 1,492 | 1,834 | 1,901 | 2,163 | | | | | |
| 32 | 0,625 | 0,776 | 0,925 | 1,146 | 1,218 | 1,502 | 1,847 | 1,914 | 2,178 | | | | | |
| 33 | 0,645 | 0,801 | 0,956 | 1,183 | 1,258 | 1,552 | 1,909 | 1,979 | 2,254 | | | | | |
| 33,7 | 0,659 | 0,819 | 0,977 | 1,209 | 1,286 | 1,588 | 1,953 | 2,025 | 2,306 | 2,444 | | | | |
| 34 | 0,665 | 0,826 | 0,986 | 1,221 | 1,298 | 1,603 | 1,972 | 2,044 | 2,329 | 2,468 | | | | |
| 35 | 0,685 | 0,851 | 1,016 | 1,258 | 1,338 | 1,653 | 2,035 | 2,109 | 2,404 | 2,548 | | | | |
| 38 | 0,745 | 0,926 | 1,106 | 1,371 | 1,458 | 1,803 | 2,222 | 2,305 | 2,629 | 2,788 | 3,101 | 3,405 | | |
| 40 | 0,785 | 0,977 | 1,166 | 1,446 | 1,538 | 1,903 | 2,348 | 2,435 | 2,779 | 2,949 | 3,281 | 3,606 | | |
| 41 | | 1,002 | 1,196 | 1,484 | 1,579 | 1,953 | 2,410 | 2,500 | 2,855 | 3,029 | 3,371 | 3,706 | | |
| 42 | | 1,027 | 1,226 | 1,521 | 1,619 | 2,003 | 2,473 | 2,565 | 2,930 | 3,109 | 3,462 | 3,806 | | |
| 42,4 | | 1,037 | 1,238 | 1,536 | 1,635 | 2,023 | 2,498 | 2,591 | 2,960 | 3,141 | 3,498 | 3,846 | | |
| 43 | | 1,052 | 1,256 | 1,559 | 1,659 | 2,053 | 2,535 | 2,630 | 3,005 | 3,189 | 3,552 | 3,906 | | |
| 44,5 | | 1,089 | 1,301 | 1,615 | 1,719 | 2,128 | 2,629 | 2,728 | 3,117 | 3,309 | 3,687 | 4,056 | | |
| 45 | | 1,102 | 1,316 | 1,634 | 1,739 | 2,153 | 2,661 | 2,760 | 3,155 | 3,349 | 3,732 | 4,107 | | |
| 48 | | 1,177 | 1,406 | 1,747 | 1,859 | 2,304 | 2,848 | 2,956 | 3,380 | 3,590 | 4,002 | 4,407 | | |
| 48,3 | | 1,184 | 1,415 | 1,758 | 1,871 | 2,319 | 2,867 | 2,975 | 3,403 | 3,614 | 4,029 | 4,437 | | |
| 50 | | 1,227 | 1,466 | 1,822 | 1,939 | 2,404 | 2,974 | 3,086 | 3,531 | 3,750 | 4,183 | 4,607 | | |
| 50,8 | | 1,247 | 1,490 | 1,852 | 1,971 | 2,444 | 3,024 | 3,138 | 3,591 | 3,814 | 4,255 | 4,687 | | |
| 51 | | 1,252 | 1,496 | 1,859 | 1,979 | 2,454 | 3,036 | 3,151 | 3,606 | 3,830 | 4,273 | 4,708 | | |
| 52 | | 1,277 | 1,526 | 1,897 | 2,019 | 2,504 | 3,099 | 3,216 | 3,681 | 3,910 | 4,363 | 4,808 | | |
| 53 | | 1,302 | 1,556 | 1,934 | 2,059 | 2,554 | 3,161 | 3,281 | 3,756 | 3,990 | 4,453 | 4,908 | | |
| 54 | | 1,327 | 1,587 | 1,972 | 2,099 | 2,604 | 3,224 | 3,346 | 3,831 | 4,071 | 4,543 | 5,008 | | |
| 55 | | 1,352 | 1,617 | 2,009 | 2,139 | 2,654 | 3,287 | 3,411 | 3,906 | 4,151 | 4,633 | 5,108 | | |
| 57 | | 1,402 | 1,677 | 2,085 | 2,220 | 2,754 | 3,412 | 3,542 | 4,056 | 4,311 | 4,814 | 5,308 | | |
| 60,3 | | 1,485 | 1,776 | 2,209 | 2,352 | 2,920 | 3,618 | 3,757 | 4,304 | 4,575 | 5,111 | 5,639 | 6,924 | |
| 63,5 | | 1,565 | 1,872 | 2,329 | 2,480 | 3,080 | 3,819 | 3,965 | 4,545 | 4,832 | 5,400 | 5,960 | 7,324 | |
| 70 | | 1,728 | 2,067 | 2,573 | 2,740 | 3,405 | 4,226 | 4,388 | 5,033 | 5,353 | 5,986 | 6,611 | 8,138 | |
| 73 | | 1,803 | 2,157 | 2,686 | 2,861 | 3,556 | 4,413 | 4,583 | 5,258 | 5,593 | 6,256 | 6,911 | 8,514 | |
| 76,1 | | 1,881 | 2,251 | 2,802 | 2,985 | 3,711 | 4,607 | 4,785 | 5,491 | 5,841 | 6,535 | 7,222 | 8,902 | |
| 80 | | 1,978 | 2,368 | 2,948 | 3,141 | 3,906 | 4,852 | 5,039 | 5,784 | 6,154 | 6,887 | 7,612 | 9,390 | |
| 83 | | 2,053 | 2,458 | 3,061 | 3,261 | 4,056 | 5,039 | 5,234 | 6,010 | 6,394 | 7,157 | 7,913 | 9,766 | |
| 84 | | 2,078 | 2,488 | 3,099 | 3,301 | 4,107 | 5,102 | 5,299 | 6,085 | 6,474 | 7,248 | 8,013 | 9,891 | |
| 85 | | 2,103 | 2,518 | 3,136 | 3,341 | 4,157 | 5,165 | 5,365 | 6,160 | 6,554 | 7,338 | 8,113 | 10,016 | |
| 88,9 | | | 2,635 | 3,283 | 3,498 | 4,352 | 5,409 | 5,618 | 6,453 | 6,867 | 7,689 | 8,504 | 10,504 | |
| 95 | | | | 3,512 | 3,742 | 4,657 | 5,791 | 6,016 | 6,911 | 7,356 | 8,239 | 9,115 | 11,268 | |
| 101,6 | | | | 3,760 | 4,006 | 4,988 | 6,204 | 6,445 | 7,407 | 7,885 | 8,834 | 9,776 | 12,094 | |
| 103 | | | | 3,812 | 4,062 | 5,058 | 6,291 | 6,536 | 7,512 | 7,997 | 8,960 | 9,916 | 12,270 | |
| 104 | | | | 3,850 | 4,103 | 5,108 | 6,354 | 6,602 | 7,587 | 8,077 | 9,050 | 10,016 | 12,395 | |
| 108 | | | | 4,000 | 4,263 | 5,308 | 6,604 | 6,862 | 7,888 | 8,397 | 9,411 | 10,417 | 12,896 | |
| 114,3 | | | | 4,237 | 4,515 | 5,624 | 6,999 | 7,272 | 8,361 | 8,902 | 9,979 | 11,048 | 13,684 | 16,271 |

OBA PASLANMAZ

"Paslanmaz boru ve profilde uzman"

"Specialist in stainless steel tubes and box sections."

Paslanmaz Dikişli Borular

Round stainless steel welded tubes

| diş çap outside diameter mm | BORULAR EN 10217-7, EN 10296 Round Tubes EN 10217-7, EN 10296 | | | | | | | | | | | | | ağırlık weight kg/m |
|-----------------------------------|------------------------------------------------------------------|---|-----|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------|
| | et kalınlığı / wall thickness mm | | | | | | | | | | | | | |
| | 0,80 | 1 | 1,2 | 1,5 | 1,6 | 2 | 2,5 | 2,6 | 3 | 3,2 | 3,6 | 4 | 5 | 6 |
| 127 | | | | 4,714 | 5,024 | 6,260 | 7,794 | 8,099 | 9,315 | 9,920 | 11,124 | 12,320 | 15,274 | 18,179 |
| 129 | | | | 4,789 | 5,104 | 6,360 | 7,919 | 8,229 | 9,465 | 10,080 | 11,304 | 12,520 | 15,525 | 18,480 |
| 133 | | | | 4,939 | 5,264 | 6,560 | 8,169 | 8,490 | 9,766 | 10,401 | 11,665 | 12,921 | 16,026 | 19,080 |
| 139,7 | | | | 5,191 | 5,533 | 6,896 | 8,589 | 8,926 | 10,269 | 10,937 | 12,269 | 13,592 | 16,864 | 20,087 |
| 153 | | | | 5,690 | 6,066 | 7,562 | 9,421 | 9,792 | 11,268 | 12,003 | 13,468 | 14,924 | 18,530 | 22,085 |
| 154 | | | | 5,728 | 6,106 | 7,612 | 9,484 | 9,857 | 11,343 | 12,083 | 13,558 | 15,024 | 18,655 | 22,236 |
| 155 | | | | 5,765 | 6,146 | 7,662 | 9,547 | 9,922 | 11,418 | 12,163 | 13,648 | 15,124 | 18,780 | 22,386 |
| 156 | | | | 5,803 | 6,186 | 7,712 | 9,609 | 9,987 | 11,493 | 12,244 | 13,738 | 15,224 | 18,905 | 22,536 |
| 159 | | | | 5,916 | 6,306 | 7,863 | 9,797 | 10,182 | 11,719 | 12,484 | 14,008 | 15,525 | 19,281 | 22,987 |
| 168,3 | | | | 6,265 | 6,679 | 8,328 | 10,379 | 10,788 | 12,417 | 13,229 | 14,847 | 16,456 | 20,445 | 24,384 |
| 204 | | | | 7,606 | 8,109 | 10,116 | 12,614 | 13,112 | 15,099 | 16,090 | 18,065 | 20,032 | 24,915 | 29,748 |
| 205 | | | | 7,643 | 8,149 | 10,166 | 12,677 | 13,177 | 15,174 | 16,170 | 18,155 | 20,132 | 25,040 | 29,898 |
| 206 | | | | | | 10,216 | 12,739 | 13,242 | 15,249 | 16,250 | 18,245 | 20,232 | 25,165 | 30,048 |
| 219,1 | | | | | | 10,872 | 13,559 | 14,095 | 16,233 | 17,300 | 19,426 | 21,544 | 26,805 | 32,016 |
| 254 | | | | | | 12,620 | 15,744 | 16,367 | 18,855 | 20,096 | 22,572 | 25,040 | 31,175 | 37,260 |
| 255 | | | | | | 12,670 | 15,807 | 16,432 | 18,930 | 20,176 | 22,662 | 25,140 | 31,300 | 37,410 |
| 256 | | | | | | 12,720 | 15,869 | 16,497 | 19,005 | 20,256 | 22,752 | 25,240 | 31,425 | 37,560 |
| 273 | | | | | | 13,572 | 16,933 | 17,604 | 20,282 | 21,619 | 24,285 | 26,943 | 33,554 | 40,114 |
| 304 | | | | | | 15,124 | 18,874 | 19,622 | 22,611 | 24,103 | 27,079 | 30,048 | 37,435 | 44,772 |
| 306 | | | | | | 15,224 | 18,999 | 19,753 | 22,761 | 24,263 | 27,260 | 30,248 | 37,685 | 45,072 |
| 323,9 | | | | | | 16,121 | 20,120 | 20,918 | 24,106 | 25,697 | 28,873 | 32,041 | 39,926 | 47,761 |
| 355,6 | | | | | | 17,708 | 22,104 | 22,982 | 26,487 | 28,237 | 31,731 | 35,216 | 43,895 | 52,524 |
| 406,4 | | | | | | 20,252 | 25,284 | 26,289 | 30,303 | 32,308 | 36,310 | 40,304 | 50,255 | 60,156 |
| 508 | | | | | | | 31,644 | 32,904 | 37,936 | 40,449 | 45,469 | 50,481 | 62,976 | 75,420 |

Rezistans Boruları

Round stainless steel welded tubes for heat resistances

| diş çap outside diameter mm | BORULAR EN 10217-7, EN 10296 Round Tubes EN 10217-7, EN 10296 | | | | | | ağırlık weight kg/m |
|-----------------------------------|------------------------------------------------------------------|-------|-------|-------|-------|-------|---------------------------|
| | et kalınlığı / wall thickness mm | | | | | | |
| | 0,40 | 0,50 | 0,60 | 0,70 | 0,75 | 0,80 | |
| 5 | 0,046 | 0,056 | 0,066 | 0,075 | 0,080 | | |
| 6 | 0,056 | 0,069 | 0,081 | 0,093 | 0,099 | | |
| 7,50 | 0,071 | 0,088 | 0,104 | 0,119 | 0,127 | | |
| 8 | 0,076 | 0,094 | 0,111 | 0,128 | 0,136 | 0,144 | |
| 9,50 | 0,091 | 0,113 | 0,134 | 0,154 | 0,164 | 0,174 | |
| 10 | 0,096 | 0,119 | 0,141 | 0,163 | 0,174 | 0,184 | |
| 12 | 0,116 | 0,144 | 0,171 | 0,198 | 0,211 | 0,224 | |
| 12,7 | 0,123 | 0,153 | 0,182 | 0,210 | 0,224 | 0,238 | |
| 13 | 0,126 | 0,157 | 0,186 | 0,216 | 0,230 | 0,244 | |
| 14 | 0,136 | 0,169 | 0,201 | 0,233 | 0,249 | 0,264 | |
| 15 | 0,146 | 0,182 | 0,216 | 0,251 | 0,268 | 0,284 | |
| 16 | 0,156 | 0,194 | 0,231 | 0,268 | 0,286 | 0,304 | |
| 17,2 | 0,168 | 0,209 | 0,249 | 0,289 | 0,309 | 0,329 | |
| 18 | 0,176 | 0,219 | 0,261 | 0,303 | 0,324 | 0,345 | |
| 19 | | 0,232 | 0,276 | 0,321 | 0,343 | 0,365 | |
| 19,05 | | 0,232 | 0,277 | 0,322 | 0,344 | 0,366 | |
| 20 | | 0,244 | 0,291 | 0,338 | 0,362 | 0,385 | |

OBA PASLANMAZ

"Paslanmaz boru ve profile uzman"

"Specialist in stainless steel tubes and box sections."



Paslanmaz Dikişli Borular (Yağ ve Gaz Sanayi İçin)

Round stainless steel welded process pipes for oil and gas

| NPS | diş çap outside diameter mm | standard ANSI B 36-19 | | | | | |
|--------|--------------------------------------|--------------------------------------------------|--------|--------------|--------|--------------|--------|
| | | schedule 5S | | schedule 10S | | schedule 40S | |
| | | et kalınlığı & ağırlık wall thickness and weight | | | | | |
| | | mm | kg/m | mm | kg/m | mm | kg/m |
| 3/8" | 17,15 | | | 1,65 | 0,640 | 2,31 | 0,858 |
| 1/2" | 21,34 | 1,65 | 0,814 | 2,11 | 1,016 | 2,77 | 1,288 |
| 3/4" | 26,67 | 1,65 | 1,034 | 2,11 | 1,298 | 2,87 | 1,710 |
| 1" | 33,4 | 1,65 | 1,312 | 2,77 | 2,125 | 3,38 | 2,541 |
| 1 1/4" | 42,16 | 1,65 | 1,674 | 2,77 | 2,732 | 3,56 | 3,441 |
| 1 1/2" | 48,26 | 1,65 | 1,926 | 2,77 | 3,155 | 3,68 | 4,108 |
| 2" | 60,33 | 1,65 | 2,424 | 2,77 | 3,992 | 3,91 | 5,524 |
| 2 1/2" | 73,03 | 2,11 | 3,747 | 3,05 | 5,345 | 5,16 | 8,769 |
| 3" | 88,9 | 2,11 | 4,585 | 3,05 | 6,557 | 5,49 | 11,466 |
| 3 1/2" | 101,6 | 2,11 | 5,256 | 3,05 | 7,526 | 5,74 | 13,778 |
| 4" | 114,3 | 2,11 | 5,927 | 3,05 | 8,496 | 6,02 | 16,322 |
| 6" | 168,28 | 2,77 | 11,480 | 3,40 | 14,037 | 7,11 | 28,694 |
| 8" | 219,08 | 2,77 | 15,003 | 3,76 | 20,272 | 8,18 | 43,198 |
| 10" | 273,05 | 3,40 | 22,957 | 4,19 | 28,208 | | |
| 12" | 323,85 | 3,96 | 31,720 | 4,57 | 36,536 | | |
| 14" | 355,6 | 3,96 | 34,868 | 4,78 | 41,990 | | |

Paslanmaz Dikişli Borular (Eşanjör, Gıda ve Süt Sanayi İçin)

Round stainless steel welded process tubes for heat exchangers / food and dairy industry

| diş çap outside diameter | Birmingham Wire Gauge | | | | | |
|--------------------------------|----------------------------------|-----------------------|-------|-------|-------|-------|
| | 18 | 16 | 14 | 12 | 11 | |
| | et kalınlığı / wall thickness mm | | | | | |
| mm | inches | 1,24 | 1,65 | 2,11 | 2,77 | 3,05 |
| | | ağırlık / weight kg/m | | | | |
| 15,88 | 5/8" | 0,455 | 0,588 | 0,728 | | |
| 19,05 | 3/4" | 0,553 | 0,719 | 0,895 | | |
| 25,4 | 1" | 0,750 | 0,981 | 1,231 | 1,570 | 1,707 |
| 31,8 | 1 1/4" | 0,949 | 1,246 | 1,569 | 2,014 | 2,196 |
| 38,1 | 1 1/2" | 1,144 | 1,506 | 1,902 | 2,451 | 2,677 |
| 44,45 | 1 3/4" | 1,342 | 1,768 | 2,237 | 2,891 | 3,162 |
| 50,8 | 2" | 1,539 | 2,031 | 2,573 | 3,331 | 3,647 |
| 60,3 | 2 3/8" | 1,834 | 2,423 | 3,074 | 3,990 | 4,372 |
| 63,5 | 2 1/2" | 1,933 | 2,555 | 3,244 | 4,212 | 4,617 |
| 76,2 | 3" | 2,327 | 3,080 | 3,915 | 5,083 | 5,587 |
| 88,9 | 3 1/2" | | 3,605 | 4,585 | 5,974 | 6,557 |
| 101,6 | 4" | | 4,130 | 5,256 | 6,855 | 7,526 |
| 114,3 | 4 1/2" | | 4,654 | 5,927 | 7,736 | 8,496 |



OBA PASLANMAZ

"Paslanmaz boru ve profilde uzman"

"Specialist in stainless steel tubes and box sections."

Paslanmaz Dikişli Borular (İçilebilir Su ve Pres Fittings İçin)

Round stainless steel welded process tubes for drinkable water and press fitting

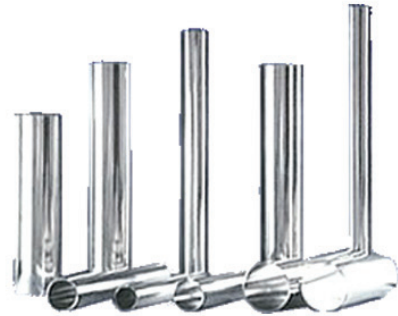
| diş çap outside diameter mm | et kalınlığı / wall thickness mm | | | ağırlık weight kg/m |
|-----------------------------------|----------------------------------|-------|-------|---------------------------|
| | 1 | 1,2 | 1,5 | |
| 15 | 0,351 | | | |
| 18 | 0,426 | | | |
| 22 | | 0,625 | | |
| 28 | | 0,805 | | |
| 35 | | | 1,258 | |
| 42 | | | 1,521 | |
| 54 | | | 1,972 | |
| 76,1 | | | | 3,711 |
| 88,9 | | | | 4,352 |
| 108 | | | | 5,308 |



Paslanmaz Dikişli Borular (Gıda ve Süt Sanayi İçin)

Round stainless steel welded process tubes
for the food and dairy industry

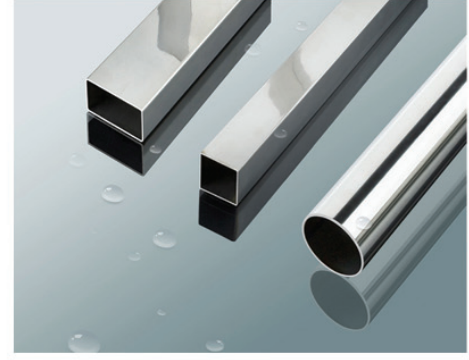
| diş çap outside diameter mm | et kalınlığı / wall thickness mm | | | | ağırlık weight kg/m |
|-----------------------------------|----------------------------------|-------|-------|--------|---------------------------|
| | 1 | 1,5 | 1,6 | 2 | |
| 18 | 0,426 | 0,620 | | | |
| 19 | | 0,657 | | | |
| 22 | 0,526 | 0,770 | | | |
| 23 | | 0,808 | | | |
| 25 | 0,715 | | | | |
| 28 | 0,676 | 0,995 | | | |
| 29 | | 1,033 | | | |
| 33 | | 1,183 | | | |
| 34 | 0,826 | 1,221 | | | |
| 35 | | 1,258 | | | |
| 38 | 1,106 | 1,371 | 1,458 | | |
| 40 | 0,977 | 1,446 | | | |
| 41 | | 1,484 | | | |
| 43 | | 1,559 | | | |
| 50,8 | 1,490 | 1,852 | 1,971 | | |
| 51 | 1,496 | | | | |
| 52 | 1,277 | 1,897 | | | |
| 53 | | 1,934 | | | |
| 63,5 | | 2,329 | 2,480 | | |
| 70 | | | | 3,405 | |
| 76,1 | | 2,802 | 2,985 | | |
| 85 | | | | 4,157 | |
| 101,6 | | | | 4,988 | |
| 104 | | | | 5,108 | |
| 129 | | | | 6,360 | |
| 154 | | | | 7,612 | |
| 204 | | | | 10,116 | |



OBA PASLANMAZ

"Paslanmaz boru ve profilde uzman"

"Specialist in stainless steel tubes and box sections."



Paslanmaz Dikişli Kare Profiller

Square stainless steel welded tubes


| Kare Profil EN 10296 Square Tubes EN 10296 | | et kalınlığı / wall thickness mm | | | | | | | ağırlık weight kg/m |
|-----------------------------------------------|--|----------------------------------|-------|-------|--------|--------|--------|--------|---------------------------|
| dış ölçüleri external dimensions | | et kalınlığı / wall thickness mm | | | | | | | |
| A x A mm | | 1 | 1,2 | 1,5 | 2 | 2,5 | 3 | 4 | 5 |
| 10 x 10 | | 0,294 | 0,347 | 0,422 | | | | | |
| 15 x 15 | | 0,453 | 0,538 | 0,661 | 0,857 | | | | |
| 16 x 16 | | 0,485 | 0,576 | 0,709 | 0,921 | | | | |
| 20 x 20 | | 0,613 | 0,729 | 0,901 | 1,176 | | | | |
| 25 x 25 | | 0,772 | 0,921 | 1,140 | 1,495 | 1,837 | 2,167 | | |
| 30 x 30 | | 0,932 | 1,112 | 1,379 | 1,814 | 2,236 | 2,645 | | |
| 35 x 35 | | 1,091 | 1,304 | 1,618 | 2,133 | 2,635 | 3,124 | | |
| 40 x 40 | | 1,251 | 1,495 | 1,858 | 2,452 | 3,033 | 3,602 | 4,703 | |
| 45 x 45 | | 1,410 | 1,686 | 2,097 | 2,771 | 3,432 | 4,081 | 5,341 | |
| 50 x 50 | | | 1,878 | 2,336 | 3,090 | 3,831 | 4,559 | 5,979 | 7,349 |
| 60 x 60 | | | | 2,814 | 3,728 | 4,628 | 5,516 | 7,255 | 8,943 |
| 70 x 70 | | | | 3,293 | 4,366 | 5,426 | 6,473 | 8,531 | 10,538 |
| 80 x 80 | | | | 3,771 | 5,004 | 6,223 | 7,430 | 9,807 | 12,133 |
| 100 x 100 | | | | 4,728 | 6,279 | 7,818 | 9,344 | 12,359 | 15,323 |
| 120 x 120 | | | | | 7,555 | 9,413 | 11,258 | 14,910 | 18,513 |
| 150 x 150 | | | | | 9,469 | 11,805 | 14,129 | 18,738 | 23,298 |
| 200 x 200 | | | | | 12,659 | 15,793 | 18,913 | 25,118 | 31,272 |
| 250 x 250 | | | | | | | 23,698 | 31,497 | 39,247 |


| Kare Profiller ASTM A 554 Square Tubes ASTM A 554 | | et kalınlığı / wall thickness mm | | | | | |
|------------------------------------------------------|--------|----------------------------------|-------|-------|-------|--------|--|
| dış ölçüleri external dimensions | | et kalınlığı / wall thickness mm | | | | | |
| A mm | inches | 1,24 | 1,65 | 2,11 | 3,05 | 4,57 | |
| 12,7 | 1/2" | 0,464 | 0,600 | | | | |
| 19,05 | 3/4" | 0,715 | 0,934 | 1,171 | | | |
| 25,4 | 1" | 0,966 | 1,269 | 1,598 | 2,238 | | |
| 31,75 | 1 1/4" | 1,217 | 1,603 | 2,025 | 2,856 | | |
| 38,1 | 1 1/2" | 1,468 | 1,937 | 2,453 | 3,474 | | |
| 50,8 | 2" | 1,971 | 2,606 | 3,308 | 4,709 | 6,882 | |
| 63,5 | 2 1/2" | | 3,274 | 4,162 | 5,945 | 8,734 | |
| 76,2 | 3" | | 3,942 | 5,017 | 7,181 | 10,585 | |
| 101,6 | 4" | | 5,279 | 6,727 | 9,652 | 14,288 | |



Paslanmaz Dikişli Dikdörtgen Profiller

Rectangular stainless steel welded tubes

|  Dikdörtgen Profiller Rectangular Tubes | | | | | | | | | ağırlık weight kg/m |
|-----------------------------------------------------------------------------------------------------------------------------|--|----------------------------------|-------|-------|-------|--------|--------|--------|---------------------------|
| dış ölçüleri external dimensions | | et kalınlığı / wall thickness mm | | | | | | | |
| A x B mm | | 1 | 1,2 | 1,5 | 2 | 2,5 | 3 | 4 | 5 |
| 20 x 10 | | 0,453 | 0,538 | 0,661 | | | | | |
| 20 x 15 | | 0,533 | 0,634 | 0,781 | 1,016 | | | | |
| 25 x 10 | | 0,533 | 0,634 | 0,781 | 1,016 | | | | |
| 25 x 15 | | 0,613 | 0,729 | 0,901 | 1,176 | | | | |
| 30 x 10 | | 0,613 | 0,729 | 0,901 | 1,176 | | | | |
| 30 x 15 | | 0,693 | 0,825 | 1,020 | 1,335 | | | | |
| 30 x 20 | | 0,772 | 0,921 | 1,140 | 1,495 | 1,837 | 2,167 | | |
| 35 x 20 | | 0,852 | 1,017 | 1,259 | 1,654 | 2,036 | 2,406 | | |
| 40 x 10 | | 0,772 | 0,921 | 1,140 | 1,495 | 1,837 | 2,167 | | |
| 40 x 15 | | 0,852 | 1,017 | 1,259 | 1,654 | 2,036 | 2,406 | | |
| 40 x 20 | | 0,932 | 1,112 | 1,379 | 1,814 | 2,236 | 2,645 | | |
| 40 x 27 | | 1,044 | 1,246 | 1,547 | 2,037 | 2,515 | 2,980 | | |
| 40 x 30 | | 1,091 | 1,304 | 1,618 | 2,133 | 2,635 | 3,124 | | |
| 50 x 10 | | 0,932 | 1,112 | 1,379 | 1,814 | 2,236 | 2,645 | | |
| 50 x 20 | | 1,091 | 1,304 | 1,618 | 2,133 | 2,635 | 3,124 | | |
| 50 x 25 | | 1,171 | 1,399 | 1,738 | 2,292 | 2,834 | 3,363 | | |
| 50 x 30 | | 1,251 | 1,495 | 1,858 | 2,452 | 3,033 | 3,602 | | |
| 50 x 40 | | 1,410 | 1,686 | 2,097 | 2,771 | 3,432 | 4,081 | | |
| 60 x 10 | | 1,091 | 1,304 | 1,618 | 2,133 | 2,635 | 3,124 | | |
| 60 x 20 | | 1,251 | 1,495 | 1,858 | 2,452 | 3,033 | 3,602 | | |
| 60 x 30 | | 1,410 | 1,686 | 2,097 | 2,771 | 3,432 | 4,081 | | |
| 60 x 40 | | | | 2,336 | 3,090 | 3,831 | 4,559 | 5,979 | |
| 70 x 20 | | | | 2,097 | 2,771 | 3,432 | 4,081 | 5,341 | |
| 70 x 40 | | | | 2,575 | 3,409 | 4,229 | 5,038 | 6,617 | |
| 80 x 20 | | | | 2,336 | 3,090 | 3,831 | 4,559 | 5,979 | |
| 80 x 30 | | | | 2,575 | 3,409 | 4,229 | 5,038 | 6,617 | |
| 80 x 40 | | | | 2,814 | 3,728 | 4,628 | 5,516 | 7,255 | 8,943 |
| 80 x 50 | | | | 3,054 | 4,047 | 5,027 | 5,995 | 7,893 | 9,741 |
| 80 x 60 | | | | 3,293 | 4,366 | 5,426 | 6,473 | 8,531 | 10,538 |
| 100 x 40 | | | | 3,293 | 4,366 | 5,426 | 6,473 | 8,531 | 10,538 |
| 100 x 50 | | | | 3,532 | 4,685 | 5,824 | 6,952 | 9,169 | 11,336 |
| 100 x 60 | | | | 3,771 | 5,004 | 6,223 | 7,430 | 9,807 | 12,133 |
| 100 x 80 | | | | 4,250 | 5,641 | 7,021 | 8,387 | 11,083 | 13,728 |
| 120 x 40 | | | | 3,771 | 5,004 | 6,223 | 7,430 | 9,807 | 12,133 |
| 120 x 60 | | | | 4,250 | 5,641 | 7,021 | 8,387 | 11,083 | 13,728 |
| 120 x 80 | | | | 4,728 | 6,279 | 7,818 | 9,344 | 12,359 | 15,323 |
| 150 x 50 | | | | | 6,279 | 7,818 | 9,344 | 12,359 | 15,323 |
| 150 x 100 | | | | | 7,874 | 9,812 | 11,736 | 15,548 | 19,310 |
| 160 x 80 | | | | | 7,555 | 9,413 | 11,258 | 14,910 | 18,513 |
| 200 x 100 | | | | | 9,469 | 11,805 | 14,129 | 18,738 | 23,298 |

|  Dikdörtgen Profiller ASTM A 554 Rectangular Tubes ASTM A 554 | | | | | | | ağırlık weight kg/m |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------|-------|-------|-------|--------|---------------------------|
| dış ölçüleri external dimensions A x B | | et kalınlığı mm wall thickness mm | | | | | |
| mm | inch | 1,24 | 1,65 | 2,11 | 3,05 | 4,57 | |
| 50,8 x 25,4 | 2" x 1" | 1,468 | 1,937 | 2,453 | 3,474 | | |
| 76,2 x 25,4 | 3" x 1" | 1,969 | 2,603 | 3,304 | 4,704 | 6,875 | |
| 76,2 x 50,8 | 3" x 2" | 2,473 | 3,274 | 4,162 | 5,945 | 8,734 | |
| 101,6 x 50,8 | 4" x 2" | | 3,942 | 5,017 | 7,181 | 10,585 | |

OBA PASLANMAZ

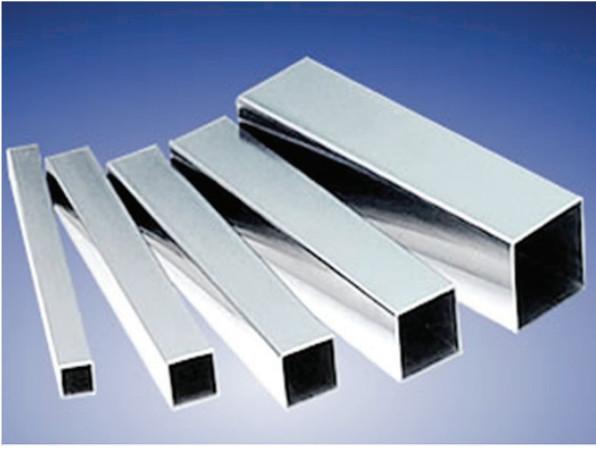
"Paslanmaz boru ve profilde uzman"

"Specialist in stainless steel tubes and box sections."

Paslanmaz Polisajlı Dikişli Borular

Polished round stainless steel welded tubes

| diş çap outside diameter mm | Polisajlı Borular EN 10217-7, EN 10296 Round Tubes EN 10217-7, EN 10296 | | | | | | | | | | | | | | ağırlık weight kg/m |
|-----------------------------------|----------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|---------------------------|
| | et kalınlığı / wall thickness mm | | | | | | | | | | | | | | |
| | 0,80 | 1 | 1,2 | 1,5 | 1,6 | 2 | 2,5 | 2,6 | 3 | 3,2 | 3,6 | 4 | 5 | 6 | |
| 6 | | 0,125 | | | | | | | | | | | | | |
| 8 | 0,144 | 0,175 | | | | | | | | | | | | | |
| 10 | 0,184 | 0,225 | 0,264 | 0,319 | | | | | | | | | | | |
| 12 | 0,224 | 0,275 | 0,325 | 0,394 | 0,417 | 0,501 | | | | | | | | | |
| 12,7 | 0,238 | 0,293 | 0,346 | 0,421 | 0,445 | | | | | | | | | | |
| 14 | 0,264 | 0,326 | 0,385 | 0,470 | 0,497 | 0,601 | | | | | | | | | |
| 15 | 0,284 | 0,351 | 0,415 | 0,507 | 0,537 | 0,651 | | | | | | | | | |
| 16 | 0,304 | 0,376 | 0,445 | 0,545 | 0,577 | 0,701 | | | | | | | | | |
| 17,2 | 0,329 | 0,406 | 0,481 | 0,590 | 0,625 | 0,761 | 0,920 | 0,951 | 1,067 | | | | | | |
| 18 | 0,345 | 0,426 | 0,505 | 0,620 | 0,657 | 0,801 | 0,970 | 1,003 | 1,127 | | | | | | |
| 19 | 0,365 | 0,451 | 0,535 | 0,657 | 0,697 | 0,851 | 1,033 | 1,068 | 1,202 | | | | | | |
| 19,05 | 0,366 | 0,452 | 0,536 | 0,659 | 0,699 | 0,854 | 1,036 | 1,071 | 1,206 | | | | | | |
| 20 | 0,385 | 0,476 | 0,565 | 0,695 | 0,737 | 0,901 | 1,096 | 1,133 | 1,277 | | | | | | |
| 21,3 | 0,411 | 0,508 | 0,604 | 0,744 | 0,789 | 0,967 | 1,177 | 1,217 | 1,375 | | | | | | |
| 22 | 0,425 | 0,526 | 0,625 | 0,770 | 0,817 | 1,002 | 1,221 | 1,263 | 1,427 | | | | | | |
| 23 | 0,445 | 0,551 | 0,655 | 0,808 | 0,857 | 1,052 | 1,283 | 1,328 | 1,502 | | | | | | |
| 24 | 0,465 | 0,576 | 0,685 | 0,845 | 0,897 | 1,102 | 1,346 | 1,393 | 1,578 | | | | | | |
| 25 | 0,485 | 0,601 | 0,715 | 0,883 | 0,937 | 1,152 | 1,409 | 1,458 | 1,653 | | | | | | |
| 25,4 | 0,493 | 0,611 | 0,727 | 0,898 | 0,954 | 1,172 | 1,434 | 1,484 | 1,683 | | | | | | |
| 26,9 | 0,523 | 0,649 | 0,772 | 0,954 | 1,014 | 1,247 | 1,527 | 1,582 | 1,795 | | | | | | |
| 28 | 0,545 | 0,676 | 0,805 | 0,995 | 1,058 | 1,302 | 1,596 | 1,654 | 1,878 | | | | | | |
| 29 | 0,565 | 0,701 | 0,835 | 1,033 | 1,098 | 1,352 | 1,659 | 1,719 | 1,953 | | | | | | |
| 30 | 0,585 | 0,726 | 0,865 | 1,070 | 1,138 | 1,402 | 1,722 | 1,784 | 2,028 | | | | | | |
| 31,80 | 0,621 | 0,771 | 0,919 | 1,138 | 1,210 | 1,492 | 1,834 | 1,901 | 2,163 | | | | | | |
| 32 | 0,625 | 0,776 | 0,925 | 1,146 | 1,218 | 1,502 | 1,847 | 1,914 | 2,178 | | | | | | |
| 33 | 0,645 | 0,801 | 0,956 | 1,183 | 1,258 | 1,552 | 1,909 | 1,979 | 2,254 | | | | | | |
| 33,7 | 0,659 | 0,819 | 0,977 | 1,209 | 1,286 | 1,588 | 1,953 | 2,025 | 2,306 | 2,444 | | | | | |
| 34 | 0,665 | 0,826 | 0,986 | 1,221 | 1,298 | 1,603 | 1,972 | 2,044 | 2,329 | 2,468 | | | | | |
| 35 | 0,685 | 0,851 | 1,016 | 1,258 | 1,338 | 1,653 | 2,035 | 2,109 | 2,404 | 2,548 | | | | | |
| 38 | 0,745 | 0,926 | 1,106 | 1,371 | 1,458 | 1,803 | 2,222 | 2,305 | 2,629 | 2,788 | 3,101 | 3,405 | | | |
| 40 | 0,785 | 0,977 | 1,166 | 1,446 | 1,538 | 1,903 | 2,348 | 2,435 | 2,779 | 2,949 | 3,281 | 3,606 | | | |
| 41 | | 1,002 | 1,196 | 1,484 | 1,579 | 1,953 | 2,410 | 2,500 | 2,855 | 3,029 | 3,371 | 3,706 | | | |
| 42 | | 1,027 | 1,226 | 1,521 | 1,619 | 2,003 | 2,473 | 2,565 | 2,930 | 3,109 | 3,462 | 3,806 | | | |
| 42,4 | | 1,037 | 1,238 | 1,536 | 1,635 | 2,023 | 2,498 | 2,591 | 2,960 | 3,141 | 3,498 | 3,846 | | | |
| 43 | | 1,052 | 1,256 | 1,559 | 1,659 | 2,053 | 2,535 | 2,630 | 3,005 | 3,189 | 3,552 | 3,906 | | | |
| 44,5 | | 1,089 | 1,301 | 1,615 | 1,719 | 2,128 | 2,629 | 2,728 | 3,117 | 3,309 | 3,687 | 4,056 | | | |
| 45 | | 1,102 | 1,316 | 1,634 | 1,739 | 2,153 | 2,661 | 2,760 | 3,155 | 3,349 | 3,732 | 4,107 | | | |
| 48 | | 1,177 | 1,406 | 1,747 | 1,859 | 2,304 | 2,848 | 2,956 | 3,380 | 3,590 | 4,002 | 4,407 | | | |
| 48,3 | | 1,184 | 1,415 | 1,758 | 1,871 | 2,319 | 2,867 | 2,975 | 3,403 | 3,614 | 4,029 | 4,437 | | | |
| 50 | | 1,227 | 1,466 | 1,822 | 1,939 | 2,404 | 2,974 | 3,086 | 3,531 | 3,750 | 4,183 | 4,607 | | | |
| 50,8 | | 1,247 | 1,490 | 1,852 | 1,971 | 2,444 | 3,024 | 3,138 | 3,591 | 3,814 | 4,255 | 4,687 | | | |
| 51 | | 1,252 | 1,496 | 1,859 | 1,979 | 2,454 | 3,036 | 3,151 | 3,606 | 3,830 | 4,273 | 4,708 | | | |
| 52 | | 1,277 | 1,526 | 1,897 | 2,019 | 2,504 | 3,099 | 3,216 | 3,681 | 3,910 | 4,363 | 4,808 | | | |
| 53 | | 1,302 | 1,556 | 1,934 | 2,059 | 2,554 | 3,161 | 3,281 | 3,756 | 3,990 | 4,453 | 4,908 | | | |
| 54 | | 1,327 | 1,587 | 1,972 | 2,099 | 2,604 | 3,224 | 3,346 | 3,831 | 4,071 | 4,543 | 5,008 | | | |
| 55 | | 1,352 | 1,617 | 2,009 | 2,139 | 2,654 | 3,287 | 3,411 | 3,906 | 4,151 | 4,633 | 5,108 | | | |
| 57 | | 1,402 | 1,677 | 2,085 | 2,220 | 2,754 | 3,412 | 3,542 | 4,056 | 4,311 | 4,814 | 5,308 | | | |
| 60,3 | | 1,485 | 1,776 | 2,209 | 2,352 | 2,920 | 3,618 | 3,757 | 4,304 | 4,575 | 5,111 | 5,639 | 6,924 | | |
| 63,5 | | 1,565 | 1,872 | 2,329 | 2,480 | 3,080 | 3,819 | 3,965 | 4,545 | 4,832 | 5,400 | 5,960 | 7,324 | | |
| 70 | | 1,728 | 2,067 | 2,573 | 2,740 | 3,405 | 4,226 | 4,388 | 5,033 | 5,353 | 5,986 | 6,611 | 8,138 | | |
| 73 | | 1,803 | 2,157 | 2,686 | 2,861 | 3,556 | 4,413 | 4,583 | 5,258 | 5,593 | 6,256 | 6,911 | 8,514 | | |
| 76,1 | | 1,881 | 2,251 | 2,802 | 2,985 | 3,711 | 4,607 | 4,785 | 5,491 | 5,841 | 6,535 | 7,222 | 8,902 | | |
| 80 | | 1,978 | 2,368 | 2,948 | 3,141 | 3,906 | 4,852 | 5,039 | 5,784 | 6,154 | 6,887 | 7,612 | 9,390 | | |
| 83 | | 2,053 | 2,458 | 3,061 | 3,261 | 4,056 | 5,039 | 5,234 | 6,010 | 6,394 | 7,157 | 7,913 | 9,766 | | |
| 84 | | 2,078 | 2,488 | 3,099 | 3,301 | 4,107 | 5,102 | 5,299 | 6,085 | 6,474 | 7,248 | 8,013 | 9,891 | | |
| 85 | | 2,103 | 2,518 | 3,136 | 3,341 | 4,157 | 5,165 | 5,365 | 6,160 | 6,554 | 7,338 | 8,113 | 10,016 | | |
| 88,9 | | | 2,635 | 3,283 | 3,498 | 4,352 | 5,409 | 5,618 | 6,453 | 6,867 | 7,689 | 8,504 | 10,504 | | |
| 95 | | | | 3,512 | 3,742 | 4,657 | 5,791 | 6,016 | 6,911 | 7,356 | 8,239 | 9,115 | 11,268 | | |
| 101,6 | | | | 3,760 | 4,006 | 4,988 | 6,204 | 6,445 | 7,407 | 7,885 | 8,834 | 9,776 | 12,094 | | |
| 103 | | | | 3,812 | 4,062 | 5,058 | 6,291 | 6,536 | 7,512 | 7,997 | 8,960 | 9,916 | 12,270 | | |
| 104 | | | | 3,850 | 4,103 | 5,108 | 6,354 | 6,602 | 7,587 | 8,077 | 9,050 | 10,016 | 12,395 | | |
| 108 | | | | 4,000 | 4,263 | 5,308 | 6,604 | 6,862 | 7,888 | 8,397 | 9,411 | 10,417 | 12,896 | | |
| 114,3 | | | | 4,237 | 4,515 | 5,624 | 6,999 | 7,272 | 8,361 | 8,902 | 9,979 | 11,048 | 13,684 | 16,271 | |




OBA PASLANMAZ

"Paslanmaz boru ve profilde uzman"

"Specialist in stainless steel tubes and box sections."

Polisajlı Kare Paslanmaz Dikişli Profiller

Polished square stainless steel welded tubes

|  dış ölçüleri external dimensions | Polisajlı Kare Profiller EN 10296 Polished square Tubes EN 10296 | | | | | | | | ağırlık weight kg/m |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|-------|--------|--------|--------|--------|--------|---------------------------|
| | et kalınlığı / wall thickness mm | | | | | | | | |
| A x A mm | 1 | 1,2 | 1,5 | 2 | 2,5 | 3 | 4 | 5 | |
| 10 x 10 | 0,294 | 0,347 | 0,422 | | | | | | |
| 15 x 15 | 0,453 | 0,538 | 0,661 | 0,857 | | | | | |
| 16 x 16 | 0,485 | 0,576 | 0,709 | 0,921 | | | | | |
| 20 x 20 | 0,613 | 0,729 | 0,901 | 1,176 | | | | | |
| 25 x 25 | 0,772 | 0,921 | 1,140 | 1,495 | 1,837 | 2,167 | | | |
| 30 x 30 | 0,932 | 1,112 | 1,379 | 1,814 | 2,236 | 2,645 | | | |
| 35 x 35 | 1,091 | 1,304 | 1,618 | 2,133 | 2,635 | 3,124 | | | |
| 40 x 40 | 1,251 | 1,495 | 1,858 | 2,452 | 3,033 | 3,602 | 4,703 | | |
| 45 x 45 | 1,410 | 1,686 | 2,097 | 2,771 | 3,432 | 4,081 | 5,341 | | |
| 50 x 50 | | 1,878 | 2,336 | 3,090 | 3,831 | 4,559 | 5,979 | 7,349 | |
| 60 x 60 | | | 2,814 | 3,728 | 4,628 | 5,516 | 7,255 | 8,943 | |
| 70 x 70 | | | 3,293 | 4,366 | 5,426 | 6,473 | 8,531 | 10,538 | |
| 80 x 80 | | | 3,771 | 5,004 | 6,223 | 7,430 | 9,807 | 12,133 | |
| 100 x 100 | | | 4,728 | 6,279 | 7,818 | 9,344 | 12,359 | 15,323 | |
| 120 x 120 | | | | 7,555 | 9,413 | 11,258 | 14,910 | 18,513 | |
| 150 x 150 | | | | 9,469 | 11,805 | 14,129 | 18,738 | 23,298 | |
| 200 x 200 | | | | 12,859 | 15,793 | 18,913 | 25,118 | 31,272 | |
| 250 x 250 | | | | | | 23,698 | 31,497 | 39,247 | |

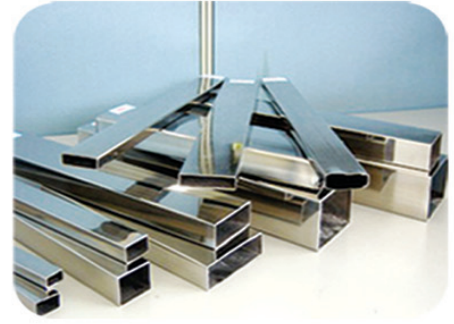


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Polisajlı Dördörtgen Paslanmaz Dikişli Profiller

Polished rectangular stainless steel welded tubes

| diş ölçüleri external dimensions A x B mm | Polisajlı Dördörtgen Profiller Polished Rectangular Tubes | | | | | | | | ağırlık weight kg/m |
|-------------------------------------------------|--------------------------------------------------------------|-------|-------|-------|-------|-------|--------|--------|---------------------------|
| | et kalınlığı / wall thickness mm | | | | | | | | |
| | 1 | 1,2 | 1,5 | 2 | 2,5 | 3 | 4 | 5 | |
| 20 x 10 | 0,453 | 0,538 | 0,661 | | | | | | |
| 20 x 15 | 0,533 | 0,634 | 0,781 | 1,016 | | | | | |
| 25 x 10 | 0,533 | 0,634 | 0,781 | 1,016 | | | | | |
| 25 x 15 | 0,613 | 0,729 | 0,901 | 1,176 | | | | | |
| 30 x 10 | 0,613 | 0,729 | 0,901 | 1,176 | | | | | |
| 30 x 15 | 0,693 | 0,825 | 1,020 | 1,335 | | | | | |
| 30 x 20 | 0,772 | 0,921 | 1,140 | 1,495 | 1,837 | 2,167 | | | |
| 35 x 20 | 0,852 | 1,017 | 1,259 | 1,654 | 2,036 | 2,406 | | | |
| 40 x 10 | 0,772 | 0,921 | 1,140 | 1,495 | 1,837 | 2,167 | | | |
| 40 x 15 | 0,852 | 1,017 | 1,259 | 1,654 | 2,036 | 2,406 | | | |
| 40 x 20 | 0,932 | 1,112 | 1,379 | 1,814 | 2,236 | 2,645 | | | |
| 40 x 27 | 1,044 | 1,246 | 1,547 | 2,037 | 2,515 | 2,980 | | | |
| 40 x 30 | 1,091 | 1,304 | 1,618 | 2,133 | 2,635 | 3,124 | | | |
| 50 x 10 | 0,932 | 1,112 | 1,379 | 1,814 | 2,236 | 2,645 | | | |
| 50 x 20 | 1,091 | 1,304 | 1,618 | 2,133 | 2,635 | 3,124 | | | |
| 50 x 25 | 1,171 | 1,399 | 1,738 | 2,292 | 2,834 | 3,363 | | | |
| 50 x 30 | 1,251 | 1,495 | 1,858 | 2,452 | 3,033 | 3,602 | | | |
| 50 x 40 | 1,410 | 1,686 | 2,097 | 2,771 | 3,432 | 4,081 | | | |
| 60 x 10 | 1,091 | 1,304 | 1,618 | 2,133 | 2,635 | 3,124 | | | |
| 60 x 20 | 1,251 | 1,495 | 1,858 | 2,452 | 3,033 | 3,602 | | | |
| 60 x 30 | 1,410 | 1,686 | 2,097 | 2,771 | 3,432 | 4,081 | | | |
| 60 x 40 | | | 2,336 | 3,090 | 3,831 | 4,559 | 5,979 | | |
| 70 x 20 | | | 2,097 | 2,771 | 3,432 | 4,081 | 5,341 | | |
| 70 x 40 | | | 2,575 | 3,409 | 4,229 | 5,038 | 6,617 | | |
| 80 x 20 | | | 2,336 | 3,090 | 3,831 | 4,559 | 5,979 | | |
| 80 x 30 | | | 2,575 | 3,409 | 4,229 | 5,038 | 6,617 | | |
| 80 x 40 | | | 2,814 | 3,728 | 4,628 | 5,516 | 7,255 | 8,943 | |
| 80 x 50 | | | 3,054 | 4,047 | 5,027 | 5,995 | 7,893 | 9,741 | |
| 80 x 60 | | | 3,293 | 4,366 | 5,426 | 6,473 | 8,531 | 10,538 | |
| 100 x 40 | | | 3,293 | 4,366 | 5,426 | 6,473 | 8,531 | 10,538 | |
| 100 x 50 | | | 3,532 | 4,685 | 5,824 | 6,952 | 9,169 | 11,336 | |
| 100 x 60 | | | 3,771 | 5,004 | 6,223 | 7,430 | 9,807 | 12,133 | |
| 100 x 80 | | | 4,250 | 5,641 | 7,021 | 8,387 | 11,083 | 13,728 | |





OBA PASLANMAZ


"Paslanmaz boru ve profilde uzman"

"Specialist in stainless steel tubes and box sections."




Paslanmaz Oval Dikişli Borular

Oval stainless steel welded tubes

|  Oval Boru EN 10296 - ASTM A 554 Oval Tubes EN 10296 - ASTM A 554 | | ağırlık weight kg/m | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------|-------|-------|--|
| dış ölçüleri external dimensions | et kalınlığı / wall thickness mm | | | | |
| A x B mm | 1 | 1,2 | 1,5 | 2 | |
| 21,8 x 11,8 | 0,426 | 0,505 | 0,620 | 0,801 | |
| 22 x 12 | 0,426 | 0,505 | 0,620 | 0,801 | |
| 24 x 13 | 0,452 | 0,536 | 0,659 | 0,854 | |
| 25,4 x 8 | 0,452 | 0,536 | 0,659 | 0,854 | |
| 30 x 15 | 0,611 | 0,727 | 0,898 | 1,172 | |
| 30 x 20 | 0,649 | 0,772 | 0,954 | 1,247 | |
| 35 x 15 | 0,676 | 0,805 | 0,995 | 1,302 | |
| 38,5 x 20 | 0,776 | 0,925 | 1,146 | 1,502 | |
| 41 x 20 | 0,819 | 0,977 | 1,209 | 1,588 | |
| 41,27 x 15,88 | 0,776 | 0,925 | 1,146 | 1,502 | |
| 48,5 x 20 | 0,929 | 1,109 | 1,375 | 1,808 | |
| 50 x 10 | 0,851 | 1,016 | 1,258 | 1,653 | |

Paslanmaz Dikişli Kanallı Boru

Stainless steel U channeled welded tubes

|  Kanallı Boru ASTM A 554 U Channelled Tubes ASTM A 554 | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|
| dış çap outer diameter | kanal U Channel | cam kalınlığı W.T of Glass |
| 42,4 mm | 20x20 | 8-18 mm |
| 50,8 mm | 15x15 | 5-13 mm |
| 60,3 mm | 20x20 | 8-18 mm |
| 63,5 mm | 20x20 | 8-18 mm |
| 76,2 mm | 25x25 | 10-23 mm |



OBA PASLANMAZ

"Paslanmaz boru ve profile uzman"

"Specialist in stainless steel tubes and box sections."



Otomotiv Uygulamaları için Paslanmaz Borular

Round stainless steel welded tubes for automotive applications

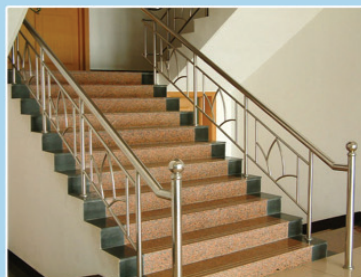
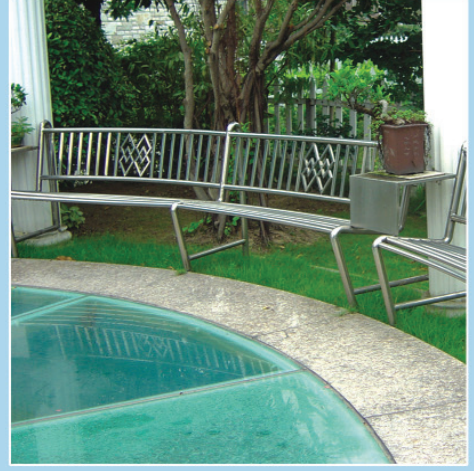
| dış çap outside diameter mm | Paslanmaz Borular EN 10296 Östenitik Kalite 1.4301, 1.4307 - Ferritik Kalite 1.4512, 1.4509, 1.4510 Round Tubes EN 10296 Austenitic grades 1.4301, 1.4307 - Ferritic grades 1.4512, 1.4509, 1.4510 | | | | | | | | | | ağırlık weight kg/m |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|---------------------------|
| | et kalınlığı / wall thickness mm | | | | | | | | | | |
| | 1 | | 1,2 | | 1,5 | | 1,8 | | 2 | | |
| | austenitic | ferritic | austenitic | ferritic | austenitic | ferritic | austenitic | ferritic | austenitic | ferritic | |
| 20 | 0,476 | 0,471 | 0,565 | 0,559 | 0,695 | 0,688 | 0,820 | 0,812 | 0,901 | 0,893 | |
| 22 | 0,526 | 0,521 | 0,625 | 0,619 | 0,770 | 0,763 | 0,910 | 0,902 | 1,002 | 0,992 | |
| 25 | 0,601 | 0,595 | 0,715 | 0,708 | 0,883 | 0,874 | 1,046 | 1,036 | 1,152 | 1,141 | |
| 28 | 0,676 | 0,670 | 0,805 | 0,798 | 0,995 | 0,986 | 1,181 | 1,170 | 1,302 | 1,290 | |
| 30 | 0,726 | 0,719 | 0,865 | 0,857 | 1,070 | 1,060 | 1,271 | 1,259 | 1,402 | 1,389 | |
| 32 | 0,776 | 0,769 | 0,925 | 0,917 | 1,146 | 1,135 | 1,361 | 1,348 | 1,502 | 1,488 | |
| 35 | 0,851 | 0,843 | 1,016 | 1,006 | 1,258 | 1,246 | 1,496 | 1,482 | 1,653 | 1,637 | |
| 38 | 0,926 | 0,918 | 1,106 | 1,095 | 1,371 | 1,358 | 1,632 | 1,616 | 1,803 | 1,786 | |
| 40 | 0,977 | 0,967 | 1,166 | 1,155 | 1,446 | 1,432 | 1,722 | 1,705 | 1,903 | 1,885 | |
| 42 | 1,027 | 1,017 | 1,226 | 1,214 | 1,521 | 1,507 | 1,812 | 1,795 | 2,003 | 1,984 | |
| 45 | 1,102 | 1,091 | 1,316 | 1,303 | 1,634 | 1,618 | 1,947 | 1,928 | 2,153 | 2,133 | |
| 48 | 1,177 | 1,166 | 1,406 | 1,393 | 1,747 | 1,730 | 2,082 | 2,062 | 2,304 | 2,282 | |
| 50 | 1,227 | 1,215 | 1,466 | 1,452 | 1,822 | 1,804 | 2,172 | 2,152 | 2,404 | 2,381 | |
| 53 | 1,302 | 1,290 | 1,556 | 1,542 | 1,934 | 1,916 | 2,308 | 2,286 | 2,554 | 2,530 | |
| 54 | 1,327 | 1,314 | 1,587 | 1,571 | 1,972 | 1,953 | 2,353 | 2,330 | 2,604 | 2,579 | |
| 55 | 1,352 | 1,339 | 1,617 | 1,601 | 2,009 | 1,990 | 2,398 | 2,375 | 2,654 | 2,629 | |
| 57 | 1,402 | 1,389 | 1,677 | 1,661 | 2,085 | 2,065 | 2,488 | 2,464 | 2,754 | 2,728 | |
| 58 | 1,427 | 1,414 | 1,707 | 1,690 | 2,122 | 2,102 | 2,533 | 2,509 | 2,804 | 2,778 | |
| 60 | 1,477 | 1,463 | 1,767 | 1,750 | 2,197 | 2,176 | 2,623 | 2,598 | 2,905 | 2,877 | |
| 63,5 | 1,565 | 1,550 | 1,872 | 1,854 | 2,329 | 2,306 | 2,781 | 2,754 | 3,080 | 3,050 | |
| 65 | 1,603 | 1,587 | 1,917 | 1,899 | 2,385 | 2,362 | 2,849 | 2,821 | 3,155 | 3,125 | |
| 70 | | | 2,067 | 2,047 | 2,573 | 2,548 | 3,074 | 3,044 | 3,405 | 3,373 | |
| 76,1 | | | 2,251 | 2,229 | 2,802 | 2,775 | 3,349 | 3,317 | 3,711 | 3,675 | |
| 80 | | | 2,368 | 2,345 | 2,948 | 2,920 | 3,525 | 3,491 | 3,906 | 3,869 | |
| 84 | | | 2,488 | 2,464 | 3,099 | 3,069 | 3,705 | 3,669 | 4,107 | 4,067 | |
| 85 | | | 2,518 | 2,494 | 3,136 | 3,106 | 3,750 | 3,714 | 4,157 | 4,117 | |
| 88,9 | | | 2,635 | 2,610 | 3,283 | 3,251 | 3,926 | 3,888 | 4,352 | 4,310 | |
| 90 | | | | | 3,324 | 3,292 | 3,975 | 3,937 | 4,407 | 4,365 | |
| 95 | | | | | 3,512 | 3,478 | 4,201 | 4,160 | 4,657 | 4,613 | |
| 101,6 | | | | | 3,760 | 3,724 | 4,498 | 4,455 | 4,988 | 4,940 | |
| 104 | | | | | 3,850 | 3,813 | 4,606 | 4,562 | 5,108 | 5,059 | |
| 108 | | | | | 4,000 | 3,962 | 4,787 | 4,741 | 5,308 | 5,258 | |
| 110 | | | | | 4,075 | 4,036 | 4,877 | 4,830 | 5,409 | 5,357 | |
| 114,3 | | | | | 4,237 | 4,196 | 5,071 | 5,022 | 5,624 | 5,570 | |
| 120 | | | | | 4,451 | 4,408 | 5,328 | 5,276 | 5,909 | 5,853 | |
| 127 | | | | | 4,714 | 4,669 | 5,643 | 5,589 | 6,280 | 6,200 | |
| 129 | | | | | 4,789 | 4,743 | 5,733 | 5,678 | 6,380 | 6,299 | |
| 130 | | | | | 4,826 | 4,780 | 5,778 | 5,723 | 6,410 | 6,349 | |
| 139,7 | | | | | 5,191 | 5,141 | 6,215 | 6,156 | 6,896 | 6,830 | |
| 155 | | | | | 5,765 | 5,710 | 6,905 | 6,839 | 7,662 | 7,589 | |



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