



Beautifully engineered shaped metal tubing

PRODUCT GUIDE





“The details are not the details. They make the design.”

— Charles Eames





WORLD-RENOWNED TUBING SOLUTIONS

For over 30 years, our specialist engineers have been crafting bespoke metal tubes, earning Timeless Tube a world-class reputation for elegant yet robust tube profiles. After three decades of extensive development, we now offer six unique profiles suitable for a wide range of applications in architecture and fabrication.

Our ability to produce bespoke prototypes helps to make the product development process – and niche jobs – easier for our clients. And whether you want just one length or thousands of lengths of tube, we will create each one with the same fastidious attention to detail.

Our shaped tubes offer aesthetic, ergonomic and structural advantages over standard round tubing, helping architects and product designers to create superior designs with minimal effort.

Most of our tubing is fabricated from premium-grade stainless steel in our UK workshop. To ensure the optimal quality of our tube profiles, we only partner with leading metal suppliers.





CLIENT PORTFOLIO

We have worked with a host of prestigious clients from industries such as construction, marine, leisure, sport, healthcare, transport and sound technology.

From Tokyo to Ohio, clients from across the world come to us for our innovative engineering and our exceptional service.

Our extensive client portfolio includes:



HITACHI



LEWMAR



WILLIAMS
JET TENDERS

PRINCESS





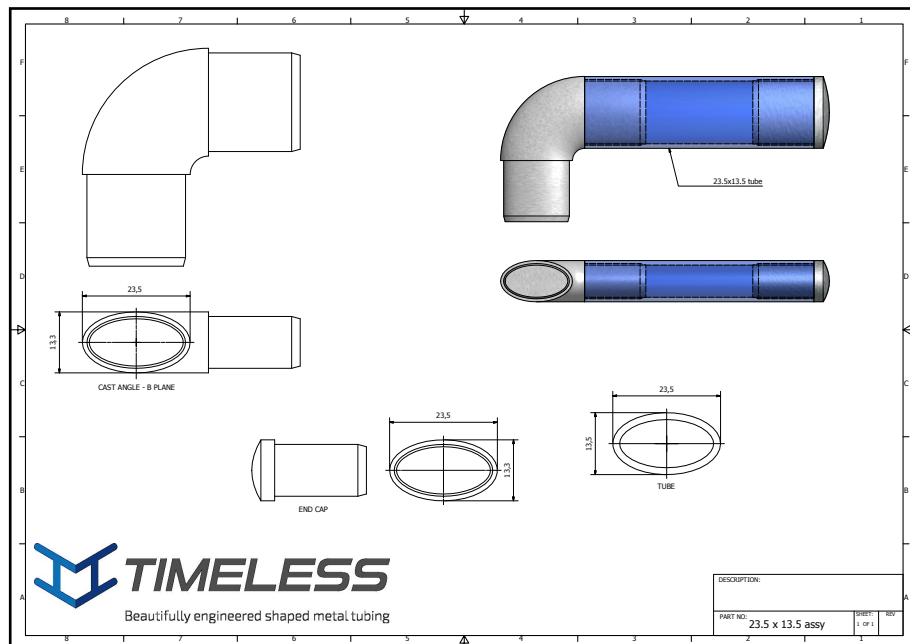
CUSTOMISED TUBING

At Timeless Tube we are renowned for our ability to customise tubing to meet our clients' needs. In fact, our experienced engineers welcome the opportunity to use their creativity and skill to find solutions – sometimes this requires making new tools to create custom sizes.

Our team are very used to working under NDAs, custom-making parts and prototypes for a varied list of clients spanning several industries; many of these prototypes and proof of concepts have turned into high-volume manufacturing jobs.

If a material, size, length or finish is not in our brochure, contact our sales team, who will be happy to fulfil any specialist requests.

We are able to send you samples, which in most instances will be provided free of charge. We can also provide drawings of our tubing for designers and architects to incorporate into designs. Please just ask.



OTHER MANUFACTURING SERVICES

We offer a range of other services, including fabrication, polishing, bending and machining.

By taking care of all these processes, we can save you both time and effort.





METALS

We only work with premium-grade metals, which we source from the UK's leading metal merchants and mills. We currently manufacture tube profiles from stainless steel, aluminium, copper, bronze, cupronickel and titanium. We can consider working with other metals, but we will not use mild steel in our workshop to prevent contamination issues.

Our engineers can help you choose the most appropriate metal for your application. Here is a guide to our most commonly used metals:

STAINLESS STEEL

Most of our tube profiles are made from stainless steel because it is versatile, durable and sustainable, and offers excellent resistance to corrosion. Stainless steel is easy to clean, which makes it a hygienic choice for public buildings and healthcare applications.

We typically use two grades of premium quality stainless steel; stainless steel 304L (1.4301) and stainless steel 316L (1.4404).

STAINLESS STEEL 304L (1.4301)

Suitable for structural and decorative purposes, this alloy provides ample strength while retaining a high degree of manipulability.

STAINLESS STEEL 316L (1.4404)

Sometimes referred to as marine-grade stainless steel, this alloy contains a higher nickel and molybdenum content for increased corrosion resistance, making it ideal for marine architecture and other exterior applications.

DUPLEX / SUPERDUPLEX

We can also form tubing from duplex and superduplex stainless steel if the tubing will be used in subsea conditions. Duplex stainless steel grades boast many of the benefits of austenitic and ferritic stainless steel.



STAINLESS STEEL FINISHES

It is important to specify the right finish for your project. Our team can guide you through the finishing options available.

Our stainless steel tubes are typically supplied with a bright polish finish (600 grit), which is attractive, practical and has a better resistance to corrosion than a roughly polished surface. If you are looking for even greater reflectivity, you can achieve a mirror finish (800 grit) with further sisal polishing.

We can also provide a dull grit finish (240 grit), or a brushed or satin finish (320 grit). These fine grain, non-reflective satin finishes are popular because they effectively disguise blemishes or fingerprints.

If appearance is not important, or if finishing is to take place after further fabrication, we can also provide tubes with a mill finish or descaled finish.

Upon request, we can even apply a wood-effect powder finish to our stainless steel tubes. Or if you are seeking a brass-effect but you need the tubing to be extremely tough, we can use PVD (Physical Vapour Deposition) titanium ion plating on stainless steel to create brass-coloured tubes.





METALS



ALUMINIUM

We use aluminium for specific projects because of its lightness.

Its surface is covered in an extremely thin yet strong layer of oxide film, which makes it highly corrosion-resistant.

ALUMINIUM 5083

Possesses immense strength coupled with excellent formability.

ALUMINIUM 6063

A cost-effective alternative for applications where strength and weight are still key attributes.



CUPRONICKEL 90/10

Stronger than copper, this alloy is used for its powerful anti-microbial properties, making it a popular choice for railings and handles.

We use cupronickel 90/10, which contains 90% copper and 10% nickel, with small quantities of iron and manganese for strength and corrosion-resistance.

Cupronickel 90/10 has a warm colour that is similar to bronze, which makes it an extremely cost-effective alternative to bronze.

Cupronickel has high electrical resistivity.

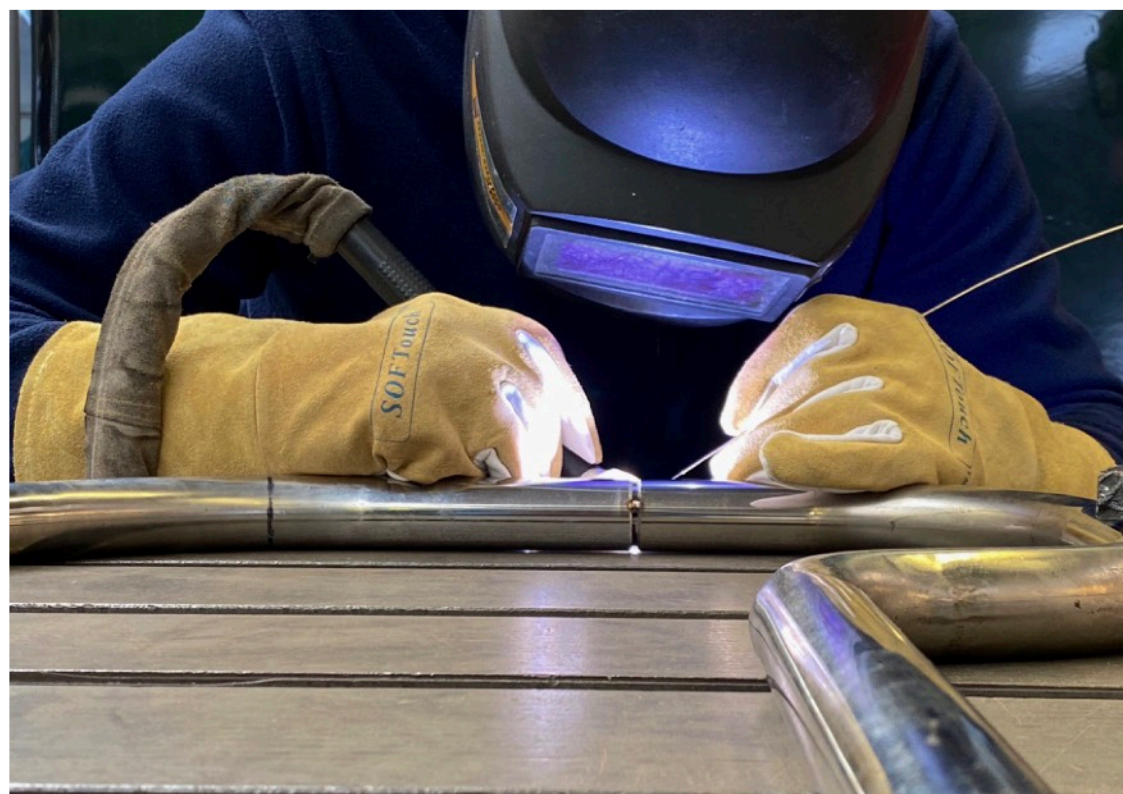


BRASS CZ108

Brass is an alloy consisting of copper and zinc, which is stronger than pure copper and provides a lighter, gold-like finish.

Brass is the most common of the copper-based alloys. It has a good corrosion resistance.

We typically use 'basis brass' for tube fabrication as it has excellent cold forming attributes, and can be readily soldered.





FLAT-SIDED OVAL TUBE

Clean, rounded lines and flat sides provide strength for architectural purposes. This tube is easy to fix to other elements.

This popular tubing is practical, elegant and strong. Its clean shape and its versatility make it viable for a vast number of applications.

The flat side fixes securely – and easily – to other elements. It is simple to maintain, which is why it is so often used in marine and medical industries.

Tests have shown that this profile is up to 54% stronger than standard round tubing, making it our strongest shaped tube.

POPULAR APPLICATIONS

- Medical equipment
- Handrails
- Guardrails
- Mobility equipment
- Cranes
- Ladders
- Gym equipment
- Balustrades
- Decorative shrouds
- Luggage racks
- Furniture
- Radiators
- Kick rails
- Lighting
- Street signs
- Door handles
- Queue management systems

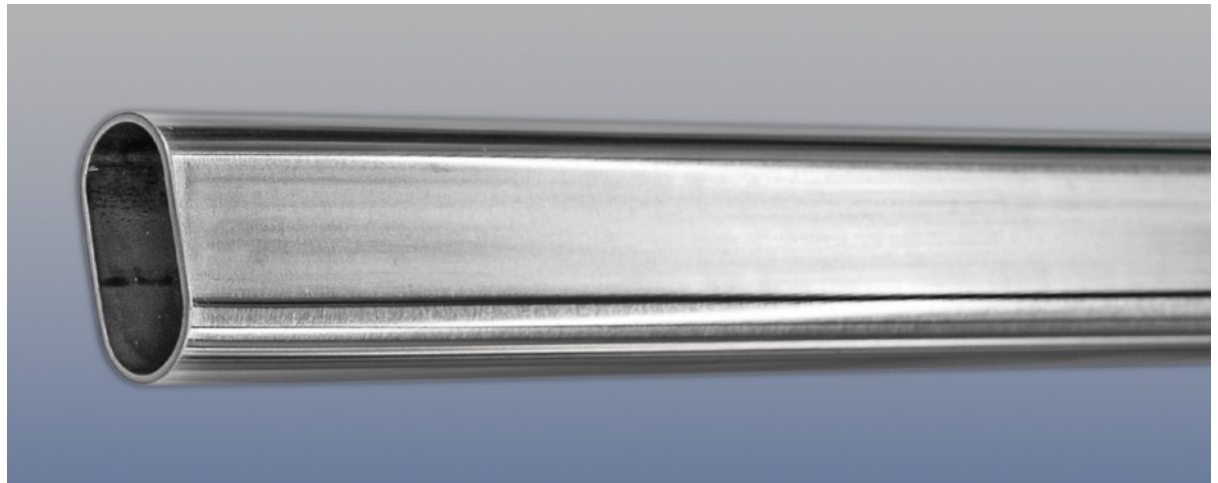
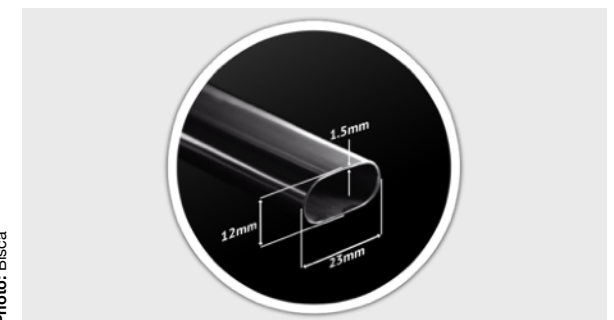
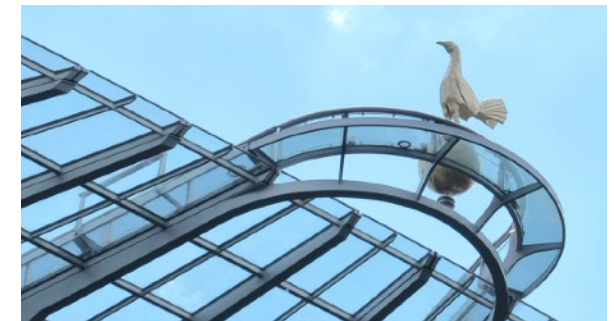


Photo: Bisco





FLAT-SIDED OVAL TUBE SIZES

CONTACT US ABOUT CUSTOMISED TUBE SIZING

STAINLESS STEEL											
DIMENSIONS mm	304 5.7 METRE LENGTHS WALL THICKNESS						316 5.7 METRE LENGTHS WALL THICKNESS				
	1.2	1.5	2.0	2.1	2.8	3.0	1.5	2.0	2.1	2.8	3.0
23 x 12		✓					✓				
26 x 13											
27 x 14		✓					✓				
31 x 15		✓					✓				
31 x 18											
35 x 9											
35 x 10		✓					✓				
35 x 21.5			✓					✓			
36 x 18		✓					✓				
37 x 22		✓					✓				
38 x 11		✓					✓				
39 x 19		✓	✓				✓	✓			
40.5 x 20					✓					✓	
41 x 15		✓					✓				
43 x 28		✓					✓				
45 x 25	✓										
48 x 21		✓	✓				✓	✓			
50 x 25											
53 x 40			✓					✓			
59.5 x 28											
61 x 50		✓						✓			
62 x 31	✓	✓	✓			✓	✓	✓			✓
69 x 29			✓					✓			
70 x 35											
75 x 35					✓					✓	
78 x 39			✓			✓		✓			✓
91 x 51						✓					✓
95 x 55			✓					✓			
99 x 38			✓					✓			
114 x 48				✓		✓			✓		✓
123 x 63		✓					✓				
128 x 55						✓					✓
131 x 50		✓									
133 x 63						✓					✓
138 x 73						✓					✓
167 x 66			✓			✓		✓			✓
195 x 85						✓					✓

ALUMINIUM											
DIMENSIONS mm	5083 5.7 METRE LENGTHS WALL THICKNESS						6063 4.7 METRE LENGTHS WALL THICKNESS				
	2.1	2.8	2.9	3.4	3.6	3.7	3.2				
23 x 12											
26 x 13		✓				✓					
27 x 14							✓				
31 x 15											
31 x 18	✓		✓								
35 x 9											
35 x 10											
35 x 21.5											
36 x 18											
37 x 22											
38 x 11											
39 x 19											
40.5 x 20		✓		✓							
41 x 15											
43 x 28											
45 x 25							✓				
48 x 21											
50 x 25		✓			✓						
53 x 40											
59.5 x 28		✓				✓					
61 x 50											
62 x 31	✓	✓	✓								
69 x 29			✓								
70 x 35											
75 x 35											
78 x 39											
91 x 51											
95 x 55											
99 x 38											
114 x 48											
123 x 63											
128 x 55											
131 x 50											
133 x 63											
138 x 73											
167 x 66											
195 x 85											

BRASS		
DIMENSIONS mm	CZ108 4.7 METRE LENGTHS WALL THICKNESS	
	1.6	3.2
23 x 12	✓	
26 x 13		
27 x 14	✓	✓
31 x 15	✓	✓
31 x 18		
35 x 9	✓	✓
35 x 10		
35 x 21.5		
36 x 18		
37 x 22		
38 x 11		
39 x 19		
40.5 x 20	✓	✓
41 x 15	✓	✓
43 x 28	✓	✓
45 x 25		
48 x 21		
50 x 25		
53 x 40		
59.5 x 28		
61 x 50		
62 x 31	✓	✓
69 x 29		
70 x 35		✓
75 x 35		
78 x 39		
91 x 51		
95 x 55		
99 x 38		
114 x 48		
123 x 63		
128 x 55		
131 x 50		
133 x 63		
138 x 73		
167 x 66		
195 x 85		

TUBE LENGTH MAY VARY FOR LARGER SIZES

OVAL TUBE

An ergonomic, tactile shape that is perfect for handrails and balustrades. This low-maintenance design is commonly used for architectural and marine purposes.

Founded by Timeless Tube over 30 years ago, this elliptical oval tubing combines a pleasing aesthetic with an ergonomic and tactile shape.

It can be easily connected with our joiners, enabling fabricators to produce high-quality handrails and balustrades in conjunction with structural glass and brickwork. Weld the tubing to the joiners for an uncompromising, seamless form or simply dry join them together.

POPULAR APPLICATIONS

- Handrails
- Balustrades
- Guardrails
- Luggage Racks
- Medical equipment
- Door handles
- Kick rails
- Furniture

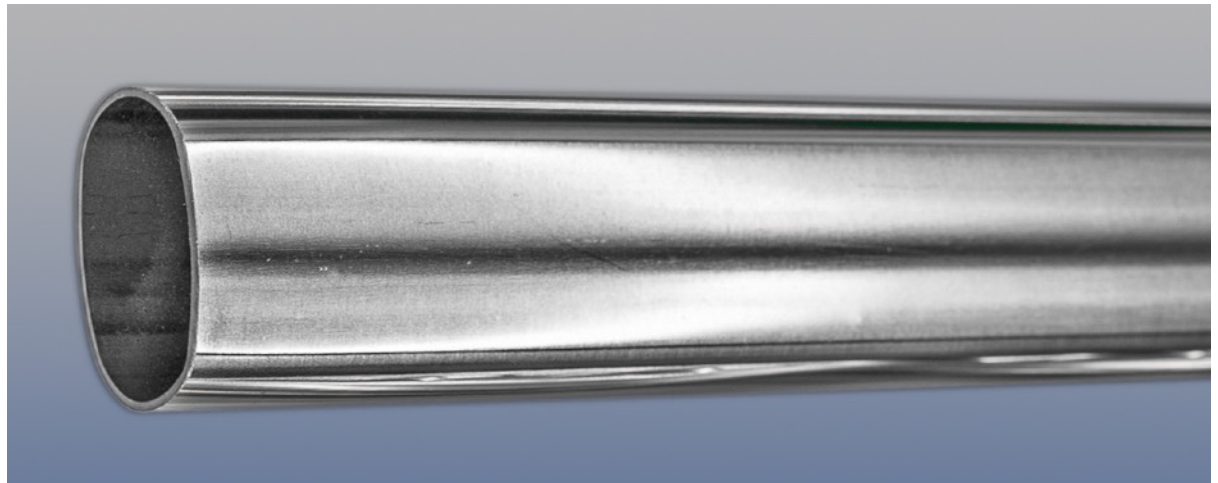
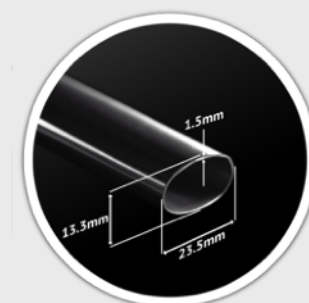


Photo: Lynn Donaldson, Synergigi Interior Design



Photo: Princess Yachts







OVAL TUBE SIZES

CONTACT US ABOUT CUSTOMISED TUBE SIZING

STAINLESS STEEL																			
DIMENSIONS mm	304 5.8 METRE LENGTHS WALL THICKNESS										316 5.8 METRE LENGTHS WALL THICKNESS								
	1.2	1.5	1.7	2.0	2.1	2.5	2.8	3.0	3.1	5.2	5.5	1.5	1.7	2.0	2.1	2.5	2.8	3.0	3.1
23.5 x 13.3		✓										✓							
30.5 x 17.5		✓		✓								✓		✓					
31 x 18														✓					
32 x 16		✓		✓								✓		✓					
35.5 x 25																			
38 x 25																			
39.5 x 20.5		✓										✓							
39.5 x 21				✓										✓					
40 x 21	✓											✓							
40 x 27																			
43 x 30		✓										✓							
47 x 25		✓		✓				✓				✓		✓				✓	
49 x 30							✓										✓		
50 x 36		✓		✓								✓		✓					
53 x 26							✓										✓		
60 x 32																			
61 x 37	✓			✓				✓				✓		✓				✓	
65 x 33		✓		✓				✓				✓		✓				✓	
71 x 45							✓										✓		
75 x 49								✓										✓	
76 x 38						✓										✓			
76 x 50		✓		✓				✓				✓		✓				✓	
78 x 38		✓	✓	✓								✓	✓	✓					
80 x 58	✓																		
81.5 x 40.5		✓																	
83 x 60										✓									✓
84 x 56				✓										✓					
85 x 55																			
86 x 58					✓				✓						✓				
90 x 45									✓	✓								✓	✓
92 x 56		✓		✓				✓				✓		✓				✓	
98 x 50		✓		✓				✓				✓		✓				✓	
104 x 67																			
117 x 50					✓						✓				✓				✓
120 x 75																			
121 x 76				✓				✓						✓				✓	
124 x 68																			
128 x 70				✓				✓						✓				✓	
131 x 65				✓				✓						✓				✓	
139 x 53				✓										✓					
143 x 45				✓										✓					
165 x 102																			
167 x 87				✓										✓					
200 x 100				✓				✓						✓				✓	
200 x 130																			

TUBE LENGTH MAY VARY FOR LARGER SIZES



OVAL TUBE SIZES

CONTACT US ABOUT CUSTOMISED TUBE SIZING

DIMENSIONS mm	ALUMINIUM																BRASS	
	5083																6063	
	5.8 METRE LENGTHS WALL THICKNESS																5.8 METRE LENGTHS WALL THICKNESS	
	2.1	2.8	2.9	3.1	3.2	3.4	3.6	3.7	3.9	4.9	5.1	5.2	5.5	5.7	6.6	7.6	3.2	6.4
23.5 x 13.3																	✓	
30.5 x 17.5																	✓	
31 x 18	✓		✓															
32 x 16																	✓	
35.5 x 25																	✓	
38 x 25		✓				✓												
39.5 x 20.5																		
39.5 x 21																		
40 x 21																		
40 x 27																	✓	
43 x 30																		
47 x 25																		
49 x 30		✓					✓			✓								
50 x 36																		
53 x 26		✓					✓			✓								
60 x 32		✓						✓			✓							
61 x 37																	✓	
65 x 33																		
71 x 45		✓							✓				✓					
75 x 49																	✓	
76 x 38		✓							✓				✓					
76 x 50																		
78 x 38																		
80 x 58																		
81.5 x 40.5																		
83 x 60																		
84 x 56																		
85 x 55				✓								✓						
86 x 58																		
90 x 45				✓								✓						
92 x 56																	✓	✓
98 x 50																		
104 x 67				✓														
117 x 50													✓			✓		
120 x 75														✓				
121 x 76																		
124 x 68																	✓	
128 x 70																		
131 x 65																		
139 x 53																		
143 x 45																		
165 x 102					✓										✓			
167 x 87																		
200 x 100																		
200 x 130						✓												

TUBE LENGTH MAY VARY FOR LARGER SIZES



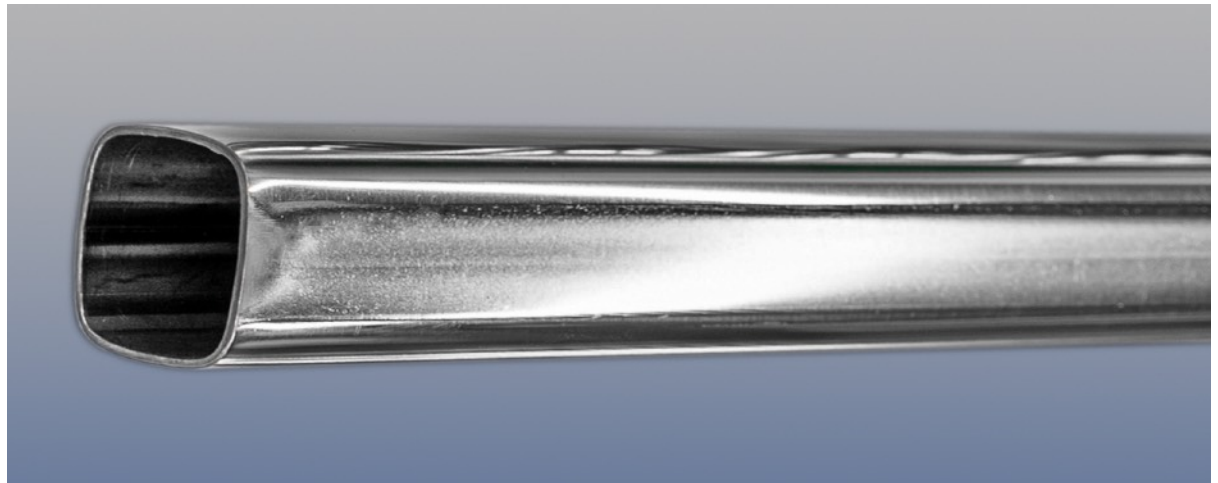
RADIUS SQUARE / TWISTED SQUARE TUBE

RADIUS SQUARE TUBE

Blended radius corners and a slight convex side provide great strength, making it an attractive alternative to standard box section.

Due to its appealing softened corners and the range of available sizes, it is ideal for balustrade and handrail panels.

The two largest tube sizes are suitable for newel posts.

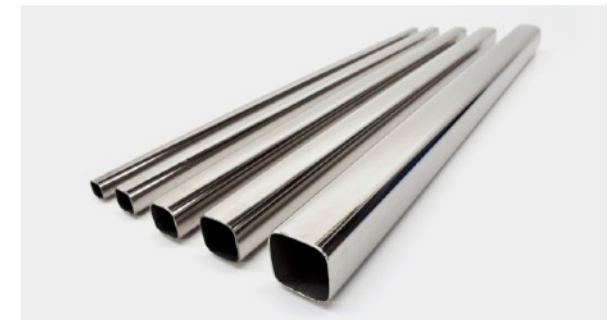


TWISTED SQUARE TUBE

Aesthetically striking alternative to standard round or square tube profiles. Offers impressive strength integrity while being lighter and more cost-effective than conventional solid twisted bars.

Not only beautiful, the twisted shape has improved rigidity and deflection capabilities in comparison to round tubes of the same wall thickness and material grade. An exciting form to work with.

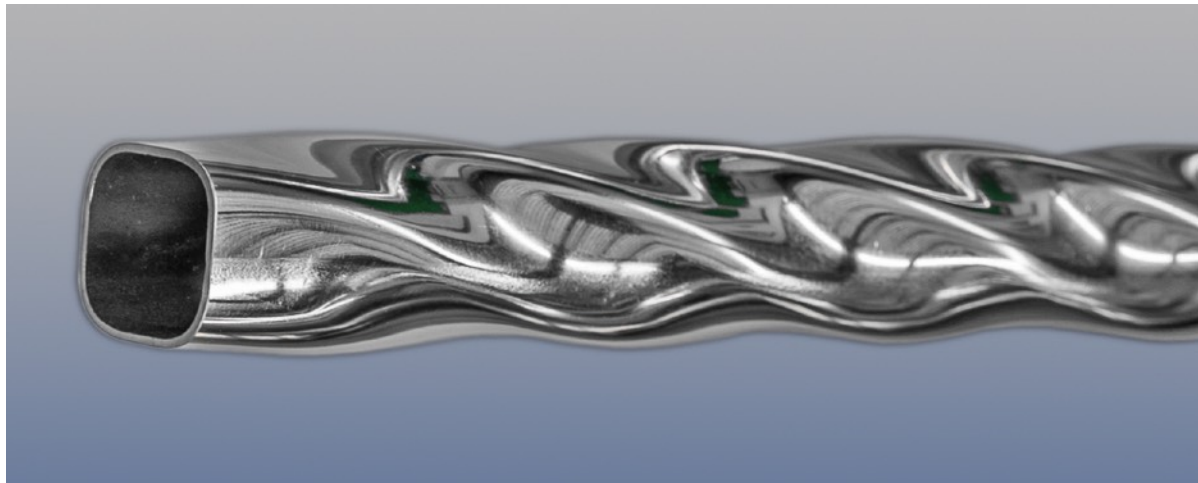
Choose between continuous twist or incremental twist.





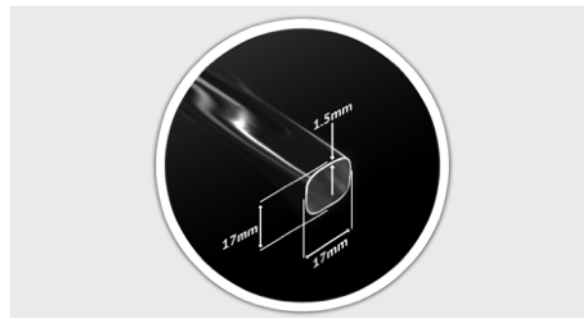
RADIUS SQUARE / TWISTED SQUARE TUBE SIZES

CONTACT US ABOUT CUSTOMISED TUBE SIZING



STAINLESS STEEL				BRASS	
DIMENSIONS mm	304 / 316 5.8 METRE LENGTHS WALL THICKNESS			DIMENSIONS mm	CZ108 2.8 OR 4.8 METRE LENGTHS WALL THICKNESS 1.6
	1.5	2.0	3.0		
17 x 17	✓			17 x 17	✓
23 x 23	✓			23 x 23	✓
28 x 28	✓			28 x 28	✓
34 x 34	✓			34 x 34	✓
45 x 45	✓			45 x 45	✓
66 x 66	✓	✓		66 x 66	✓
88 x 88	✓	✓		88 x 88	✓

TUBE LENGTH MAY VARY FOR LARGER SIZES



POPULAR APPLICATIONS

- Balustrades
- Balconies
- Railings
- Furniture
- Decorative shrouds
- Street signs
- Radiators
- Lighting
- Door handles
- Kick rails
- Queue management systems



D-SHAPED TUBE

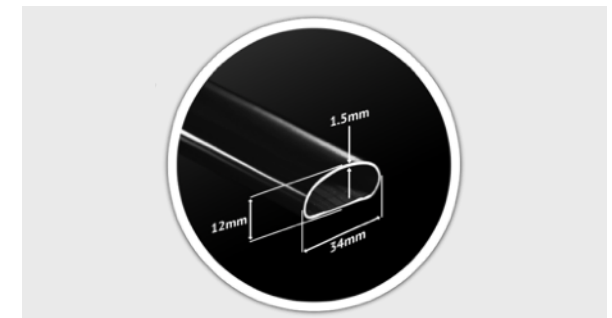
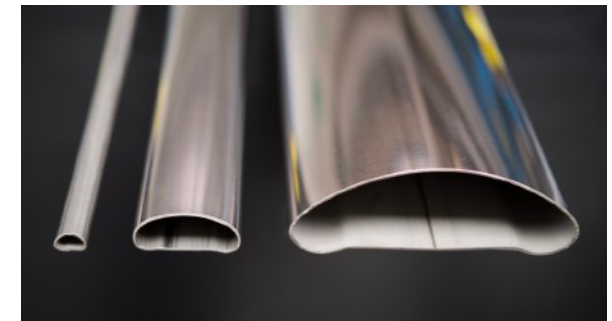
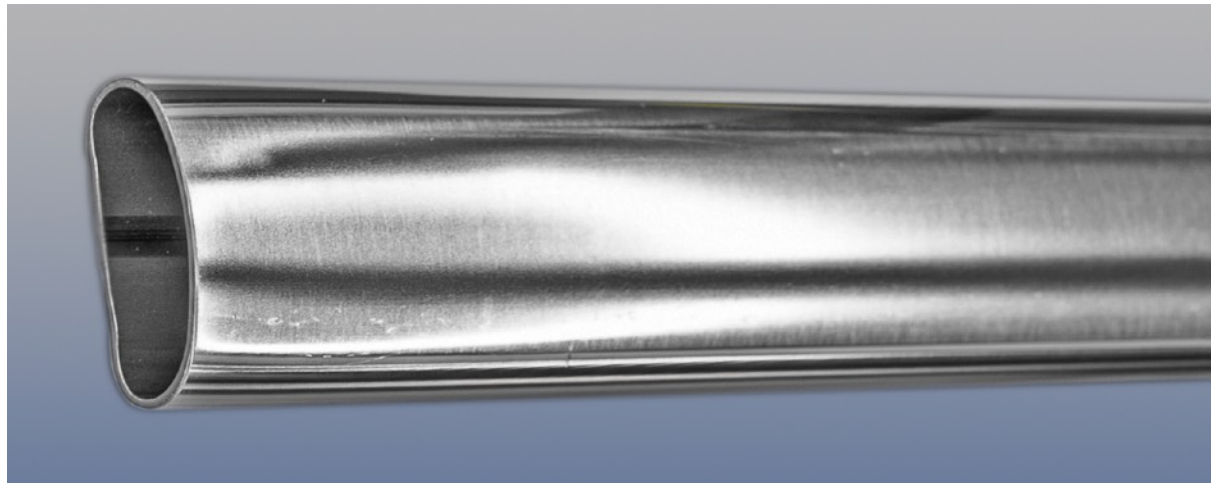
With a smooth top, flat section and incredible lateral strength, this clever design prevents water ingress underneath, plus it is very easy to install. Ideal for handrail on marine craft and in public buildings.

The D-shaped tube has been developed with ease of installation in mind; its distinctive ridged design creates a flat and secure base to apply to bulwarks, brickwork and balustrades, including glass. (Square-cut balusters can be welded directly to its recess, or a glazing channel can be welded or attached by threading inserts to the underside).

When formed from marine-grade 316L stainless steel, it provides a great alternative to traditional teak bulwark capping or handrail on larger boats and cruise liners, since it requires very little upkeep to remain looking new.

POPULAR APPLICATIONS

- Railings
- Balustrades
- Guardrails
- Kick rails
- Balconies





D-SHAPED TUBE SIZES

CONTACT US ABOUT CUSTOMISED TUBE SIZING



STAINLESS STEEL			
DIMENSIONS mm	304 / 316 5.8 METRE LENGTHS WALL THICKNESS		
	1.5	2.0	3.0
34 x 12	✓		
50 x 18	✓		
65 x 28		✓	
99 x 40		✓	
138 x 49		✓	
178 x 58	✓		✓

ALUMINIUM					
DIMENSIONS mm	5083 / 6063 5.8 METRE LENGTHS WALL THICKNESS				
	2.77	3.05	3.68	5.16	5.74
63 x 25	✓		✓		
98 x 38		✓		✓	
138 x 48					✓

BRASS	
DIMENSIONS mm	CZ108 2.8 OR 4.8 METRE LENGTHS WALL THICKNESS
	1.6
34 x 12	✓
50 x 18	✓
65 x 27	✓

TUBE LENGTH MAY VARY FOR LARGER SIZES





TWISTED OVAL TUBE

CONTACT US ABOUT CUSTOMISED TUBE SIZING

Innovative spiral forming applied to a classic oval tube design. This beautiful twisted tubing creates a mesmeric effect that is ideal for decorative metal architecture on buildings and boats.

Incorporating the classic oval tube design with the spiral forming process adapted from our twisted square tubing, this shape catches the light beautifully.

The tubing is also extremely tactile – the contours of the twists are sophisticated and sculptural.

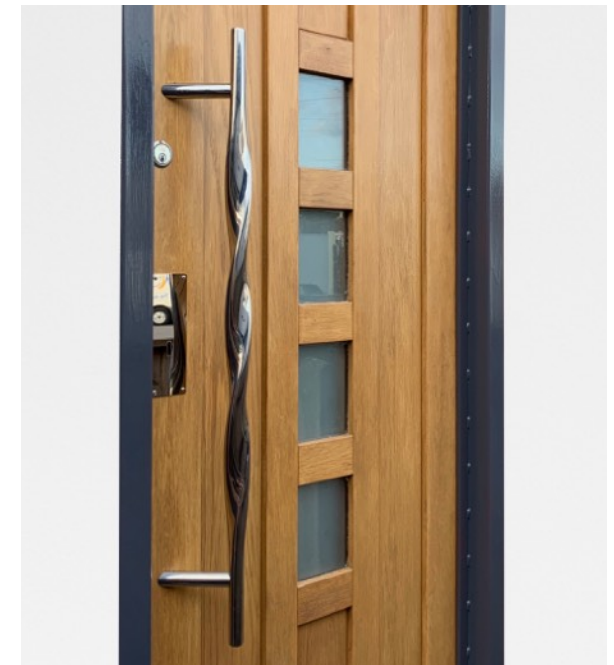
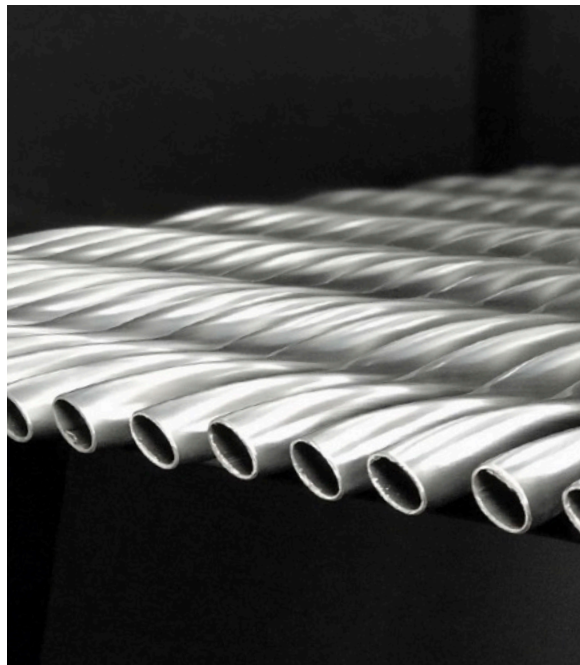
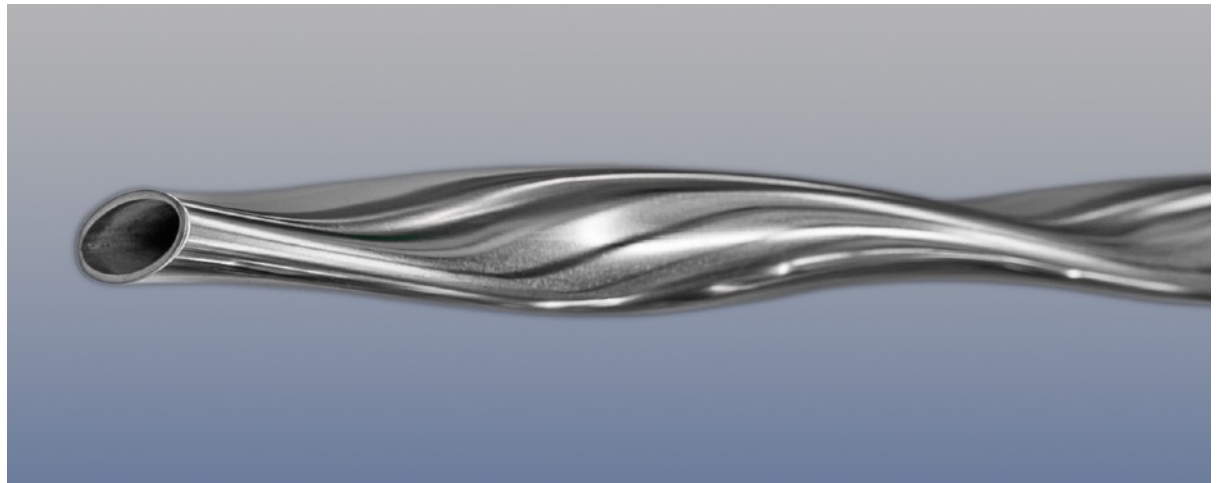
It can also be joined using the same joining system as oval tubing, allowing fabricators to create high quality handrails and balustrades with ease.

POPULAR APPLICATIONS

- Handrails
- Decorative shrouds
- Balustrades
- Door handles
- Kick rails

SIZES

For twisted oval tube, we offer the same sizes shown on our oval tube sizes page.



Call **+44(0)1202 666 560** to order

Email **INFO@TIMELESSTUBE.COM** to order

Visit **WWW.TIMELESSTUBE.COM**



JOINERS

Our joiners connect oval and twisted oval tubing with a smooth, seamless finish.

They allow you to produce tight joins on handrail and balustrades with greater ease, eliminating the need to cut and weld the tubing. The joiners can work in conjunction with structural glass and brickwork.

When used as a handrail, oval tubing can be dry joined, or joined by welding the joiners into the tube without any visual defects (after polishing).

"A" PLANE JOINERS

Used for vertical bends, such as those you might see on a staircase.



"B" PLANE JOINERS

Suitable for joining horizontal tubes, such as those used on balconies and handrails.



STRAIGHT JOINERS

Used when the application requires a significant length of tubing.



END CAPS

Gently curved components used for furniture and hand railings.



JOINER SIZES							
PROFILE	DIMENSIONS (mm)	90° "A" PLANE	75° "A" PLANE	90° "B" PLANE	JOINER	END CAP	LASER END CAPS
Oval	23.5 x 13.3 x 1.5	✓		✓	✓	✓	✓
Oval	30.5 x 17.5 x 1.5	✓		✓	✓	✓	✓
Oval	39.5 x 20.5 x 1.5	✓		✓	✓	✓	✓
Oval	47 x 25 x 1.5	✓		✓	✓	✓	✓
Oval	61 x 37 x 2	✓	✓	✓		✓	✓
Oval	71 x 45 x 2.77	✓		✓	✓	✓	✓
Oval	86 x 58 x 3	✓		✓	✓	✓	✓
Oval	121 x 76 x 3	✓		✓	✓	✓	✓
D-Shape	65 x 27 x 2			✓			
D-Shape	99 x 38 x 2				✓		



BALUSTRADES

CONTACT US ABOUT CUSTOMISED TUBE SIZING

Beautifully shaped, our tactile handrails and spindles bring enduring elegance to any staircase or balcony.

The custom-made parts are typically crafted from 304L or 316L stainless steel with a mirror polish or satin finish, or warmer metals such as brass, bronze or cupronickel.

Formed from both elliptical and softly squared tubing, the smooth lines and exceptional finish make every individual spindle look and feel as if it has been sculpted. Sometimes clients combine spindles of differing shapes or metals – or intersperse them with wooden spindles or handrails.

If you need an expert to design and fit your staircase, Timeless have partnered with some of the UK's finest metalwork fabricators and joineries who specialise in designing and fitting internal and external balustrades.

MIRROR POLISH



SATIN FINISH



Photo: ACK Engineering Ltd

HANDRAILS

Our D-shaped tubing features a curved topside which is ergonomically designed to be gripped as a handrail. It has a flat face on its underside that makes it easy to weld to. Flat-sided oval tubing can also be used.



Call +44(0)1202 666 560 to order

Email INFO@TIMELESSTUBE.COM to order

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BALUSTRADES



PROFILE	SPINDLE SIZES	
	DIMENSIONS (mm)	
Oval	23.5 x 13.3 x 1.5	
Oval	30.5 x 17.5 x 1.5	
Oval	39.5 x 20.5 x 1.5	
Oval	47 x 25 x 1.5	
Oval	61 x 37 x 1.5	
Square	17 x 17 x 1.5	
Square	23 x 23 x 1.5	
Square	28 x 28 x 1.5	
Square	34 x 34 x 1.5	
Square	45 x 45 x 1.5	
Square	66 x 66 x 1.5	
Square	88 x 88 x 1.5	

Each spindle is cut to 1.1m, which allows for the tube to be cut to fit any sized staircase. (The legal minimum handrail height in private residences is 900mm for staircases and landings).

Our twisted spindles come in two shapes (oval or square) with four twist options (from a subtle, sophisticated twist to continuous, tight twists for striking visual effect).



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