



PERFORMANCE IN TUBULARS

Our world is based on high tech seamless pipes that can withstand the toughest conditions, day in, day out. We promise highest performance based on the core values customization, innovation, sustainability and responsibility.



CUSTOMIZATION



INNOVATION



SUSTAINABILITY



RESPONSIBILITY

PRODUCTION, R&D, SALES LOCATIONS





Find your closest contact:

www.voestalpine.com/tubulars/en/Contact/sales/



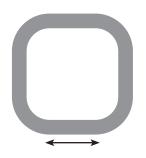
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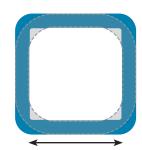
VTS®-edgeTubes

To cover an even larger portfolio of tubular products, the range of seamless round tubes has been supplemented by seamless square and rectangular hollow sections from voestalpine Tubulars at the Kindberg (Austria) site.

voestalpine Tubulars has many years of experience in the production of seamless round tubes and is thus able to produce hot-rolled seamless square and rectangular hollow sections up to 25 mm wall thickness.

DESIGN CHARACTERISTICS





- Corner radius 3 x T (standard cross-sectional area)
- Corner radius 1.6 x T (larger cross-sectional area)
- ← Connecting area

PRODUCT CHARACTERISTICS

WALL THICKNESS

» up to 25 mm (1 inch)

TIGHTER CORNER RADIUS

» $R_a \le 1.6 \times T$ $(R_a \text{ up to } \le 1 \times T \text{ depending on dimension } \& \text{ wall thickness upon request})$

DEFINED DESIGN OF OUTSIDE CORNER

» due to hot-rolling process

LARGER CROSS-SECTIONAL AREA

» due to tighter corner radius

EXCELLENT WELDABILITY

» less welding filler required for further processing

SUPERIOR LOAD-BEARING CAPACITY

» larger spans possible

NO WELD SEAM

» due to seamless pipe production

LOW RESIDUAL STRESS

» due to homogeneous structure



*WEIGHT SAVING DUE TO HIGH-STRENGTH STEEL GRADES												
Steel Grade	S355	\$460	VTS-500	\$690	S770	\$890						
Dimension [mm]			120>									
Wall thickness [mm]	16.0	13.66	12.97	10.68	9.94	9.10						
Mass [kg/m]	50.09	43.23	40.94	34.16	31.79	29.12						
Mass reduction		-13.7%	-18.3%	-31.8%	-36.6%	-41.9%						

PRODUCT SOLUTIONS ACC. TO DIN EN

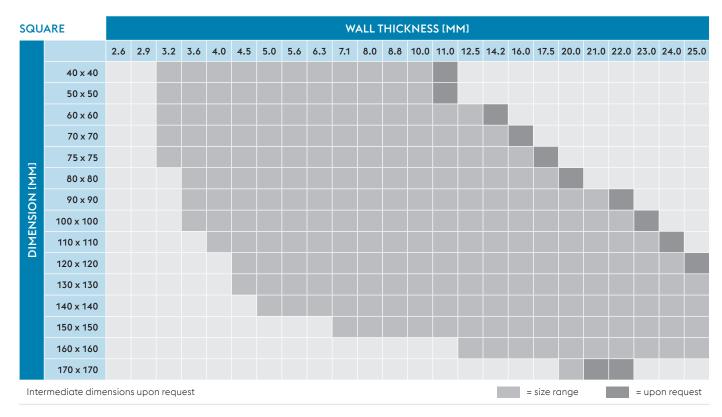
TECHNICAL DATA

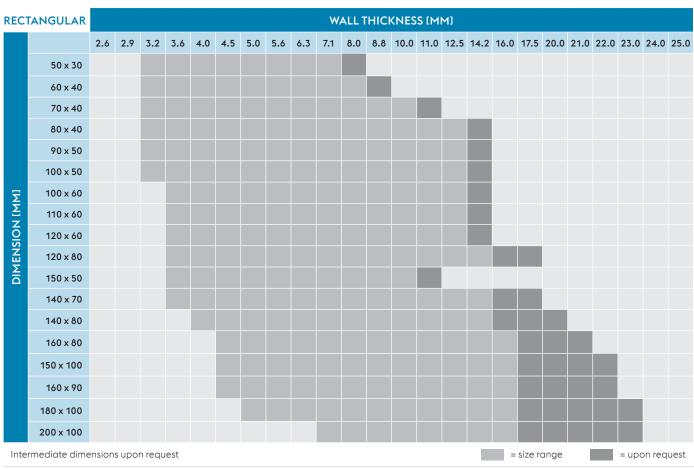
PROGRAM	
Square	40×40 mm to 170×170 mm
Rectangular	50×30 mm to 200×100 mm
Wall thickness	up to 25 mm (> 25 mm upon request)
Corner radius	$R_a \le 1.6 \times T$ (R_a up to $\le 1 \times T$ depending on dimension & wall thickness upon request)
Lengths	5,000 mm to 14,000 mm
Steel grades	S235 to S890 (tailor-made customer specifications upon request)

DIN EN APPLICATIONS

DIN EN 10210	DIN EN 10210							
Hot-finished hollow sections for structural steelwork made of unalloyed structural steels								
DIN EN 10210-1	Technical delivery conditions							
DIN EN 10210-2	Tolerances, dimensions and sectional properties							
DIN EN 10210-3	Technical delivery conditions for high strength and weather resistant steels							
CE marking in compliance with Regulation (EU) No 305/2011								
Construction Products Regulation in compliance with Regulation (EU) No 305/2011								
Product solutions accord	ding to DIN EN 10225 for offshore constructions upon request.							

PRODUCT RANGE DIN EN







QUALITY TESTING METHODS

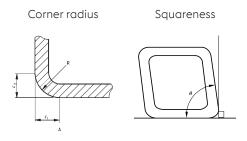
STANDARD QUALITY TEST	STANDARD QUALITY TESTING METHODS ACCORDING TO DIN EN										
Visual inspection	Chemical analysis	Destructive testing									
» Surface	» Melt analysis	» Tensile test									
» Straightness	» Optional piece analysis	» Impact test according to standard									
» Twisting											
» Height/width/length											
» Corner radius											
» Squareness											
» Curvature											
» Concavity/convexity											

		wall thickness	
2J			
	× ×	1	

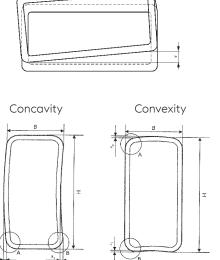
External dimensions &



IN ADDITION TO THE STANDARD QUALITY TESTING METHODS										
Automatic geometry measurement	Destructive testing	Accredited testing center								
» In hot and cold condition	» Hardness testing on request									
» Measurement over the entire pipe length										
» Surface										
» Straightness										
» Twisting										
» Height/width/length										
» Corner radius										
» Squareness										
» Curvature										
» Concavity/convexity										



Twisting



PRODUCT SOLUTIONS ACC. TO ASTM



TECHNICAL DATA

START PROGRAM	
Square	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ inch to 6 $\frac{5}{8}$ x 6 $\frac{5}{8}$ inch (38.1 x 38.1 mm to 168.3 x 168.3 mm)
Rectangular	$2 \times 2 \frac{1}{2}$ inch to 8×4 inch (50.8 \times 38.1 mm to 203.2 \times 101.6 mm)
Wall thickness	up to 1 inch / 25.40 mm (> 1 inch / 25.40 mm upon request)
Corner radius	$R_o \le 1.6 \times T$ (R_o up to $\le 1 \times T$ depending on dimension & wall thickness upon request)
Lengths	16 to 46 ft (5,000 mm to 14,000 mm)
Steel grades	Grade A, B, C

ASTM APPLICATIONS

ASTM A501/A501M

This standard is issued for hot-formed seamless carbon steel structural tubing.

QUALITY TESTING METHODS acc. to ASTM A501/A501M

PRODUCT RANGE ASTM

squ	JARE		WALL THICKNESS												
	inch		0.125	0.133	0.141	0.154	0.156	0.188	0.250	0.312	0.375	0.500	0.625	0.750	1.000
		mm	3.18	3.38	3.58	3.91	3.96	4.78	6.35	7.92	9.53	12.70	15.88	19.05	25.40
	1 ½ x 1 ½	38.1 x 38.1													
	1 ³ / ₄ x 1 ³ / ₄	44.5 x 44.5													
Z	2 x 2	50.8 × 50.8													
DIMENSION	2 ½ x 2 ½	63.5 x 63.5													
Σ	3 x 3	76.2 × 76.2													
₫	3 ½ x 3 ½	88.9 x 88.9													
	4 x 4	101.6 x 101.6													
	5 x 5	127.0 x 127.0													
	6 x 6	152.4 x 152.4													
	6 5/8 x 6 5/8	168.3 x 168.3													
Inter	Intermediate dimensions upon request = size range = upon request														



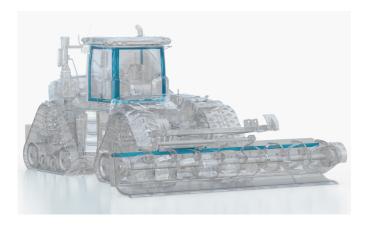
PRODUCT RANGE ASTM

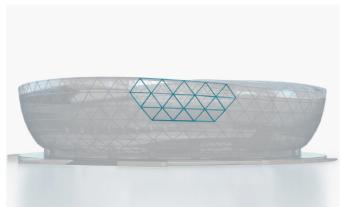
REC	TANGULAR						WALI	THICK	NESS						
	inch		0.125	0.133	0.141	0.154	0.156	0.188	0.250	0.312	0.375	0.500	0.625	0.750	1.000
		mm	3.18	3.38	3.58	3.91	3.96	4.78	6.35	7.92	9.53	12.70	15.88	19.05	25.40
	2 x1 ½	50.8 x 38.1													
	2 ½ x 1 ½	63.5 x 38.1													
	3 x 1 ½	76.2 x 38.1													
	3 x 2	76.2 x 50.8													
	3 ½ x 2 ½	88.9 x 63.5													
	4 x 2	101.6 x 50.8													
	4 x 2 ½	101.6 x 63.5													
	4 x 3	101.6 x 76.2													
	4 ½ x 2	114.3 x 50.8													
	4 ½ x 2 ½	114.3 x 63.5													
	4 ½ x 3	114.3 x 76.2													
z	4 ½ x 3 ½	114.3 x 88.9													
DIMENSION	4 ½ x 4	114.3 x 101.6													
	5 x 2	127.0 x 50.8													
	5 x 2 ½	127.0 x 63.5													
	5 x 3	127.0 x 76.2													
	5 x 3 ½	127.0 x 88.9													
	5 x 4	127.0 x 101.6													
	6 x 2	152.4 x 50.8													
	6 x 2 ½	152.4 x 63.5													
	6 x 3	152.4 x 76.2													
	6 x 3 ½	152.4 x 88.9													
	6 x 4	152.4 x 101.6													
	7 x 4	177.8 x 101.6													
	7 x 4 ½	177.8 x 114.3													
	7 x 5	177.8 x 127.0													
	7 x 6	177.8 x 152.4													
	8 x 4	203.2 x 101.6													
Inter	mediate dimensi	ons upon request												= siz	ze range

PRODUCT SOLUTIONS ACC. TO ASTM - PRODUCT RANGE ASTM

VTS®-edgeTubes FIELDS OF APPLICATIONS

Hot-rolled seamless square and rectangular pipes are primarily used in agriculture, constructions, mechanical engineering and mobility.





AGRICULTURE

- » Machinery and equipment for soil cultivation and plant protection
- » Agricultural equipment (harrowers, seed drills...)
- » Roll-Over-Protective-Structure (ROPS)
- » Fall-Over-Protective-Structure (FOPS)

CONSTRUCTIONS

- » Airports & sport stadiums
- » Buildings, halls and roof constructions
- » Bridge buildings
- Rides (rollercoaster)
- » Offshore constructions (jack-up rigs, platforms)
- » Wind energy (offshore, onshore)
- » Support structures for large-scale solar and photovoltaic systems





MECHANICAL ENGINEERING

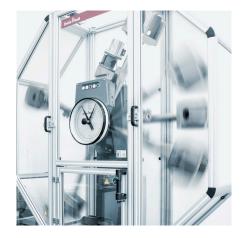
- » General mechanical engineering in various fields of application
- » Crane constructions (booms for tower cranes, mobile cranes and ship cranes)
- » Transport systems
- » Lifting platforms
- » Ski lifts

MOBILITY

- » Frame parts
- » Cabin/roll over protection
- » Trailers (axle tubes, support structure, etc.)
- » Base carrier for trailers
- » Fall-Over-Protective-Structure (FOPS)

WHY TUBULARS?

Support from material and product selection, in-house material and product development, to final product and installation consulting from one source.







PROCESS DEVELOPMENT



PRODUCT SELECTION

TESTING FACILITIES

Support from material and product selection, in-house material and product development, to final product and installation consulting from one source.

NEW PRODUCT DEVELOPMENT REQUEST FROM OUR CUSTOMER





MATERIAL COMPOSITION

TECHMET



TUBULARS TESTING FACILITIES



TESTING & FINE TUNING TOGETHER WITH METLAB & TECHMET

FINAL TESTING & **APPROVAL OF PRODUCT**

SERVICES



myTubulars APP CONVERSION CALCULATOR, CONTACT FINDER AND "NEW" NOTIFICATION

myTubulars

The myTubulars App offers new possibilities to take a look into the world of voestalpine Tubulars. Explore the great features like the Virtual Reality Tour through our mill, the conversion tool for numerous important units or our practical Contact Finder. As an additional feature, you can see when a product catalog or certificate is updated (marked as "new").

myTubulars is available for all iOS and Android devices for free in the App stores.

GET THE APP!











Follow us on social Media!

voestalpine Tubulars GmbH & Co KG

Headquarter and Production Location Alpinestrasse 17 8652 Kindberg-Aumuehl, Austria

voestalpine Tubulars Germany GmbH

VTS®-edgeTubes Sales Office Peter-Mueller-Str. 14 40468 Duesseldorf, Germany

sven.schilling@vatubulars.com www.voestalpine.com/tubulars

