

# VGS A4

ICC  
ES  
ESR-4645

CE  
ETA-11/0030

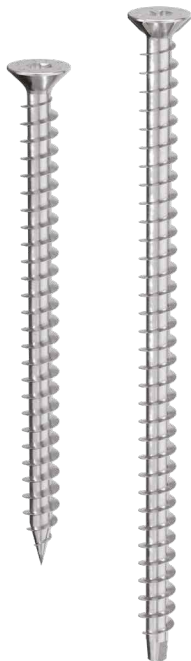
## FULL THREAD CONNECTOR WITH COUNTERSUNK HEAD

### A4 | AISI316

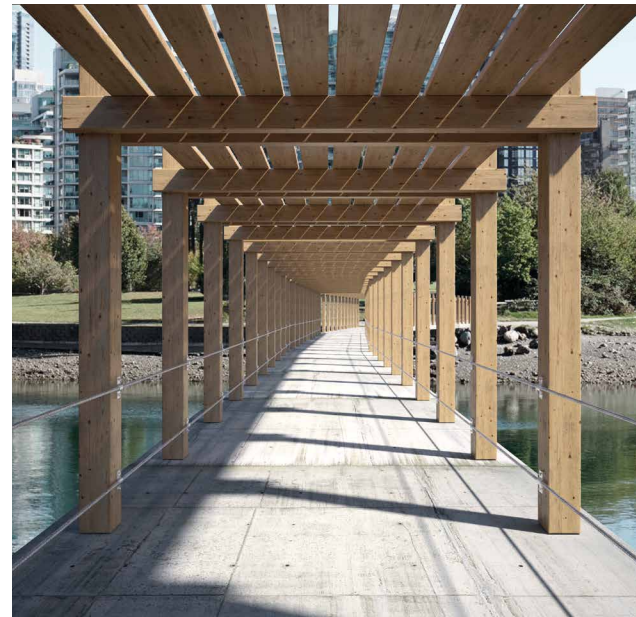
A4 | AISI316 austenitic stainless steel for high corrosion resistance. Ideal for environments adjacent to the sea in corrosivity class C5 and for insertion on the most aggressive timbers in class T5.

### T5 TIMBER CORROSIVITY

Suitable for use in applications on aggressive woods with an acidity (pH) level below 4 such as oak, Douglas fir and chestnut, and in wood moisture conditions above 20%.



METAL-to-TIMBER  
recommended use:



#### DIAMETER [in]

0.36 **0.36** 0.44 0.60

#### LENGTH [in]

3 1/8 **4** 23 5/8 39 3/8

#### EXPOSURE CONDITION

EC1 EC2 EC3 EC4 **WET**

#### ATMOSPHERIC CORROSIVITY

C1 C2 C3 C4 C5

#### WOOD CORROSIVITY

T1 T2 T3 T4 T5

#### MATERIAL

**A4**  
AISI 316 A4 | AISI316 austenitic stainless steel  
(CRC III)



## FIELDS OF USE

- timber based panels
- solid timber and glulam
- CLT and LVL
- ACQ, CCA treated timber

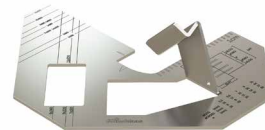
## CODES AND DIMENSIONS

d <sub>1</sub> [mm] [in]	CODE	L [mm] [in]	b [mm] [in]	pcs
9 0.36 TX 40	VGS9120A4	120 4 3/4	110 4 3/8	25
	VGS9160A4	160 6 1/4	150 6	25
	VGS9200A4	200 8	190 7 1/2	25
	VGS9240A4	240 9 1/2	230 9 1/16	25
	VGS9280A4	280 11	270 10 5/8	25
	VGS9320A4	320 12 5/8	310 12 3/16	25
11 0.44 TX 50	VGS9360A4	360 14 1/4	350 13 3/4	25
	VGS11100A4	100 4	90 3 1/2	25
	VGS11150A4	150 6	140 5 1/2	25
	VGS11200A4	200 8	190 7 1/2	25
	VGS11250A4	250 10	240 9 1/2	25
	VGS11300A4	300 11 3/4	290 11 7/16	25
	VGS11350A4	350 13 3/4	340 13 3/8	25
	VGS11400A4	400 15 3/4	390 15 3/8	25
	VGS11500A4	500 19 3/4	490 19 5/16	25
	VGS11600A4	600 23 5/8	590 23 1/4	25

## RELATED PRODUCTS



**HUS A4**  
TURNED WASHER  
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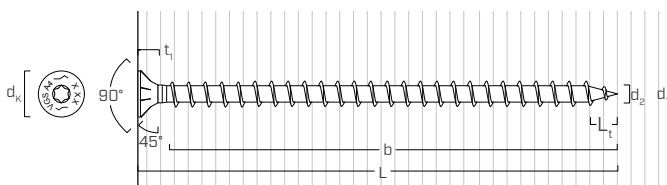
**JIG VGZ 45°**  
TEMPLATE FOR 45° SCREWS  
page 437



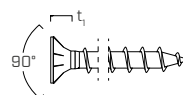
**TORQUE LIMITER**  
TORQUE LIMITER  
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## GEOMETRY

Ø0.36 - Ø0.44 in

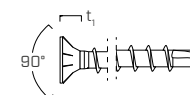


Ø0.36 in  
L ≤ 9 1/2"



Ø0.44 in  
L ≤ 10"

Ø0.36 in  
9 1/2" < L ≤ 14 1/4"



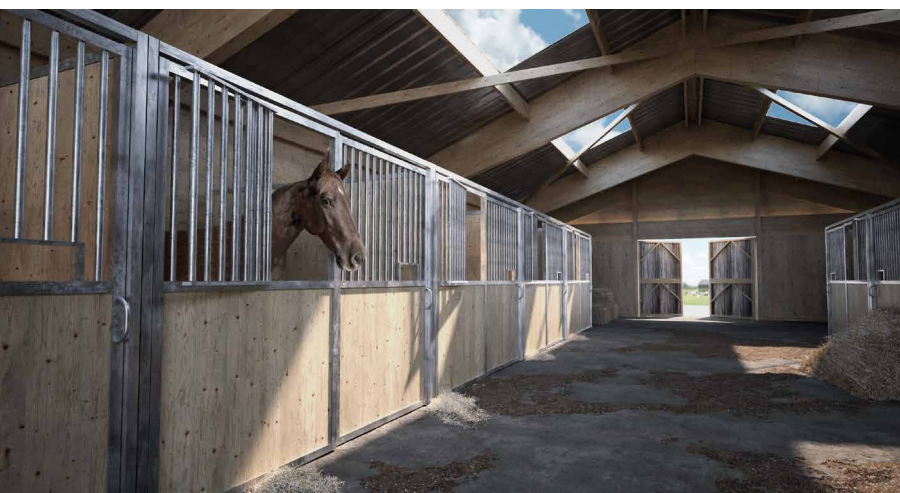
Ø0.44 in  
10" < L ≤ 23 5/8"

Nominal diameter	d <sub>1</sub>	[in] <sup>(1)</sup>	0.36	0.44
Outer thread diameter	d <sub>1</sub>	[mm] [in]	9 0.354	11 0.433
Head diameter	d <sub>K</sub>	[in]	0.630	0.760
Exagonal head thickness	t <sub>1</sub>	[in]	0.256	0.323
Root diameter	d <sub>2</sub>	[in]	0.232	0.260
Tip length	L <sub>t</sub>	[in]	0.354	0.433
Pre-drilling hole diameter <sup>(2)</sup>	d <sub>V,G≤0.55</sub>	[in]	13/64	15/64
Pre-drilling hole diameter <sup>(3)</sup>	d <sub>V,G&gt;0.55</sub>	[in]	15/64	9/32

<sup>(1)</sup>The nominal diameter of the screw is converted into imperial units and rounded up to the nearest decimal point.

<sup>(2)</sup>Pre-drilling applies to timber with G≤0.55 (optional).

<sup>(3)</sup>Pre-drilling applies to timber with G>0.55 (required).



## HYBRID STEEL-TIMBER STRUCTURES

Ideal for steel structures where high-strength customised connections are required, particularly in adverse climatic contexts such as the marine environment and acidic woods.

## SWELLING OF TIMBER

Application in combination with polymeric interlayers such as XYLOFON WASHER gives the joint a certain adaptability to mitigate stresses resulting from shrinkage/swelling of the wood.