

VGS A4

ICC
ES
ESR-4645

CE
ETA-11/0030

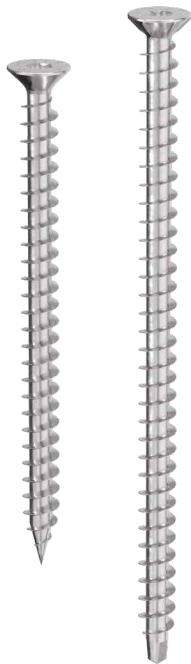
FULL THREAD CONNECTOR WITH COUNTERSUNK HEAD

A4 | AISI316

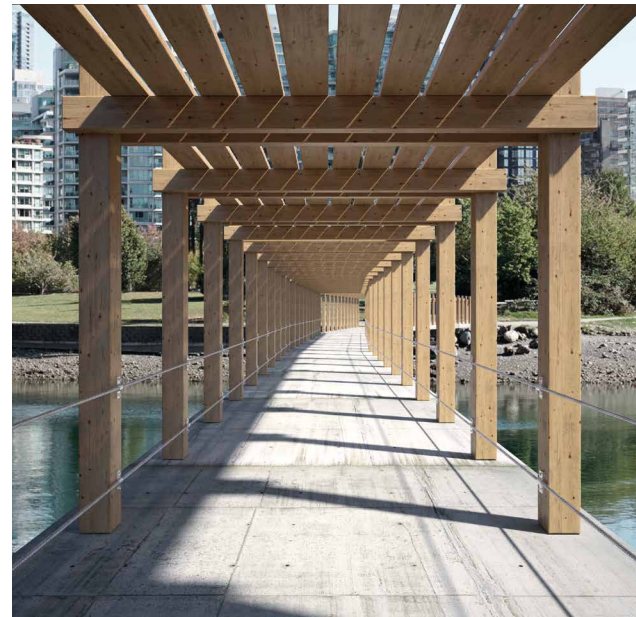
A4 | AISI316 austenitic stainless steel for high corrosion resistance. Ideal for environments adjacent to the sea in corrosivity class C5 and for insertion on the most aggressive timbers in class T5.

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

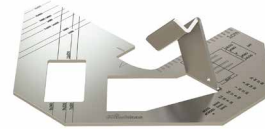
d ₁ [mm] [in]	CODE	L		b		pcs	
		[mm]	[in]	[mm]	[in]		
9 0.36 TX 40	VGS9120A4	120	4 3/4	110	4 3/8	25	
	VGS9160A4	160	6 1/4	150	6	25	
	VGS9200A4	200	8	190	7 1/2	25	
	VGS9240A4	240	9 1/2	230	9 1/16	25	
	VGS9280A4	280	11	270	10 5/8	25	
	VGS9320A4	320	12 5/8	310	12 3/16	25	
11 0.44 TX 50	VGS9360A4	360	14 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

page 72



JIG VGZ 45°
TEMPLATE FOR 45° SCREWS

page 437

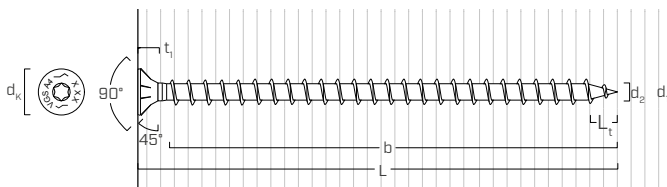


TORQUE LIMITER
TORQUE LIMITER

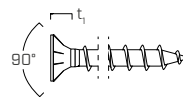
page 436

GEOMETRY

Ø0.36 - Ø0.44 in

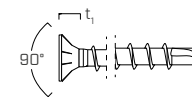


Ø0.36 in
L ≤ 9 1/2"



Ø0.44 in
L ≤ 10"

Ø0.36 in
9 1/2" < L ≤ 14 1/4"



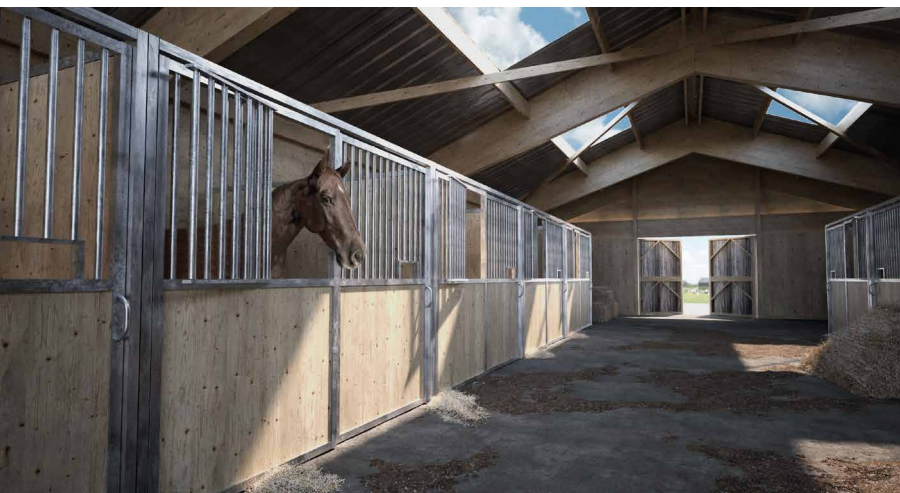
Ø0.44 in
10" < L ≤ 23 5/8"

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

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

⁽²⁾Pre-drilling applies to timber with G≤0.55 (optional).

⁽³⁾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.