

# SBS A2 | AISI304

## SELF-DRILLING TIMBER-TO-METAL SCREW

### BIMETAL SCREW

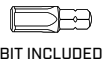
The head and body are made of A2 | AISI304 stainless steel, thus providing high resistant to corrosion. The tip is made of carbon steel for excellent drilling performance.

### TIMBER-TO-METAL TIP

Special self-perforating tip with bleeder geometry for excellent drilling capacity both in aluminium and steel. The fins protect the screw thread during timber pull-through.

### STAINLESS STEEL

The A2 | AISI304 stainless steel head and body make it ideal for outdoor applications. Very sharp under-head ribs for a perfect surface finish on the wooden element.



#### DIAMETER [in]

0.14 **0.19** 0.25 0.48

#### LENGTH [in]

1 **1 3/4** 4 3/4 9 1/2

#### EXPOSURE CONDITION

**EC1** EC2 EC3 **WET**

#### ATMOSPHERIC CORROSIVITY

**C1** C2 C3 C4

#### WOOD CORROSIVITY

T1 T2 T3 T4

#### MATERIAL

**A2** AISI 304 A2 | AISI304 austenitic stainless steel (CRC II)



### FIELDS OF USE

Direct fastening, without pre-drilling hole, of timber elements to steel substructures:

- in S235 steel with a maximum thickness of 1/4"
- in aluminium with a maximum thickness of 5/16"

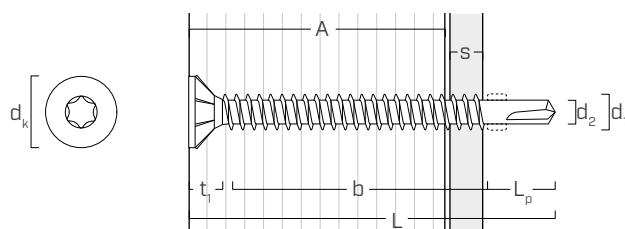
## CODES AND DIMENSIONS

| $d_1$<br>[mm]<br>[in]              | CODE       | L<br>[mm]<br>[in] | b<br>[mm]<br>[in] | A<br>[in] | $s_s$<br>[in] | $s_A$<br>[in] | pcs |
|------------------------------------|------------|-------------------|-------------------|-----------|---------------|---------------|-----|
| 4,8<br><b>0.19</b><br>#10<br>TX 25 | SBSA24845  | 45<br>1 3/4       | 31<br>1 1/4       | 1 3/16    | 1/32 - 1/8    | 1/16 - 1/8    | 200 |
| 5,5<br><b>0.22</b><br>#12<br>TX 25 | SBSA25555  | 55<br>2 1/5       | 39<br>1 9/16      | 1 7/16    | 1/16 - 3/16   | 1/8 - 3/16    | 200 |
| 6,3<br><b>0.25</b><br>#14<br>TX 30 | SBSA26370  | 70<br>2 3/4       | 53<br>2 1/16      | 1 15/16   | 1/8 - 1/4     | 3/16 - 5/16   | 100 |
|                                    | SBSA263120 | 120<br>4 3/4      | 103<br>4 1/16     | 3 7/8     | 1/8 - 1/4     | 3/16 - 5/16   | 100 |

$s_s$  thickness that can be drilled, steel plate S235/St37

$s_A$  thickness that can be drilled, aluminium plate

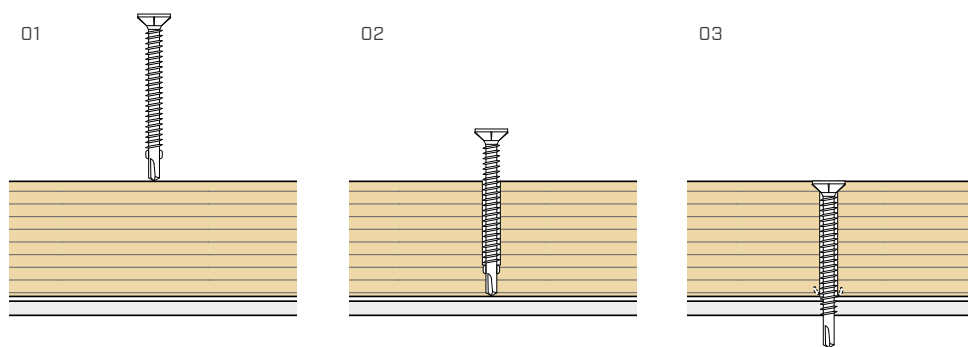
## GEOMETRY



|                       |       |                     |       |       |       |
|-----------------------|-------|---------------------|-------|-------|-------|
| Nominal diameter      | $d_1$ | [in] <sup>(1)</sup> | 0.19  | 0.22  | 0.25  |
|                       |       | [mm]                | 4,8   | 5,5   | 6,3   |
| Outer thread diameter | $d_1$ | [in]                | 0.189 | 0.217 | 0.248 |
|                       |       | [mm]                | 4,8   | 5,5   | 6,3   |
| Head diameter         | $d_k$ | [in]                | 0.364 | 0.413 | 0.413 |
| Root diameter         | $d_2$ | [in]                | 0.138 | 0.163 | 0.189 |
| Head thickness        | $t_1$ | [in]                | 0.167 | 0.191 | 0.177 |
| Tip length            | $L_p$ | [in]                | 0.406 | 0.394 | 0.472 |

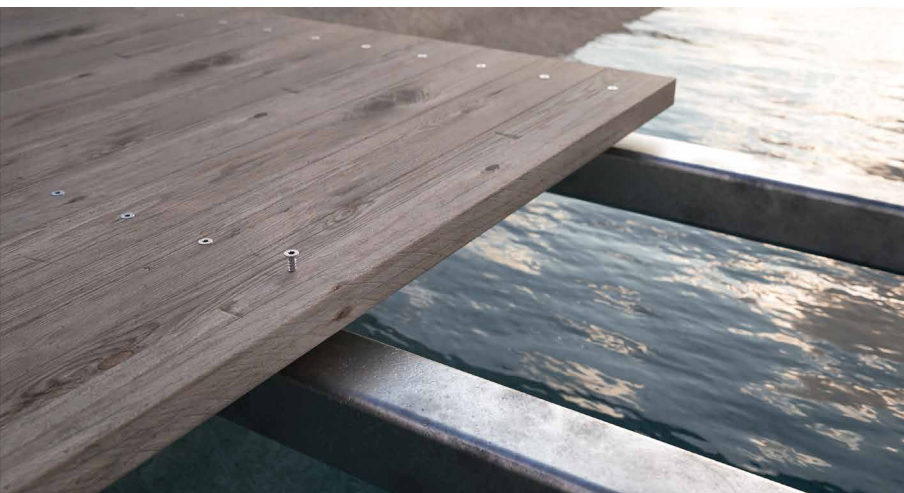
<sup>(1)</sup>The nominal diameter of the screw is converted into imperial units and rounded up to the nearest decimal point.

## INSTALLATION



### RECOMMENDATIONS FOR SCREWING:

steel:  $v_s \approx 1000 - 1500$  rpm  
aluminium:  $v_A \approx 600 - 1000$  rpm



## OUTDOOR ENVIRONMENT

Austenitic A2 stainless steel offers higher corrosion resistance.

Suitable for outdoor applications up to 1 km [0.62 mi] from the sea and on class T4 acid wood.