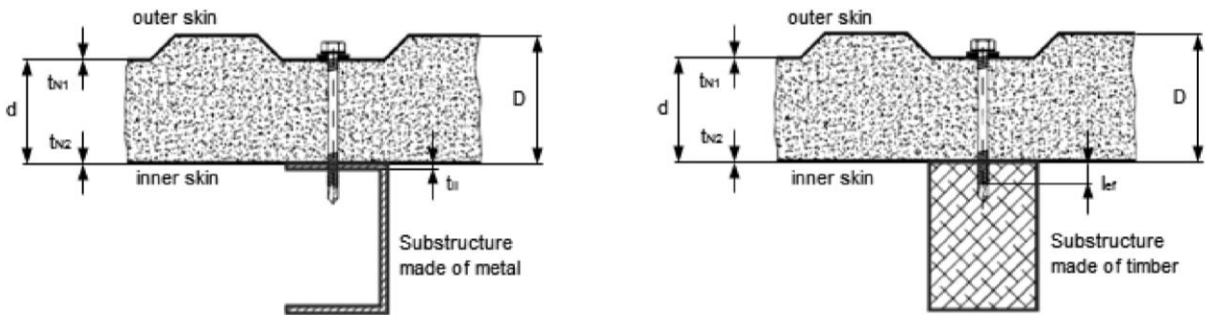


Examples of execution of a connection



Materials and dimensions

Design relevant materials and dimensions are indicated in the Annexes of the fastening screws:

Fastener	Material of the fastening screw
Washer	Material of the sealing washer
Component I	Material of the sandwich panel (outer skin and inner skin)
Component II	Material of the substructure
D, d	Thickness of component I
t _{N1}	Thickness of the outer skin of component I
t _{N2}	Thickness of the inner skin of component I
t _{II}	Thickness of component II made of metal
l _{ef}	Effective screw-in length in component II made of timber (without drill point)
d _{dp}	Pre-drill diameter of component I and component II

The thickness t_{II} corresponds to the load-bearing screw-in length of the fastening screw in component II, if the load-bearing screw-in length does not cover the entire component thickness.

Performance characteristics

The design relevant performance characteristics of a connection are indicated in the Annexes of the fastening screws:

N _{R,k}	Characteristic value of tension resistance
V _{R,k}	Characteristic value of shear resistance
u	Maximum allowed head displacement of the fastening screw

In some cases component-specific performance characteristics are indicated for an individual calculation of the design relevant performance characteristics of a connection:

N _{R,I,k}	Characteristic value of pull-through resistance for the outer skin of component I
N _{R,II,k}	Characteristic value of pull-out resistance for component II
V _{R,I,k}	Characteristic value of hole bearing resistance for the inner skin of component I
V _{R,II,k}	Characteristic value of hole bearing resistance for component II
M _{y,Rk}	Characteristic value of yield moment of the fastening screw (for component II made of timber)
f _{ax,k}	Characteristic value of withdrawal strength for component II made of timber
f _{h,k}	Characteristic value of embedding strength for component II made of timber

Terms and explanations

Fastening screws for sandwich panels

Annex 1