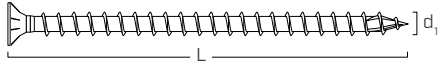
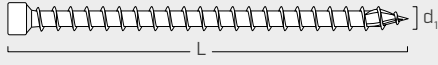
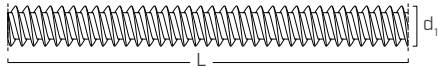


## CONNECTORS

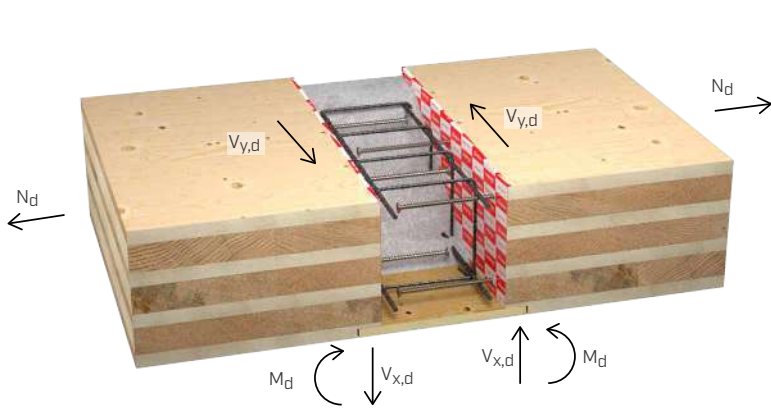
type	description	$d_1$ [mm]	L [mm]	
VGS	screw for timber	9 – 11 – 13	200 ÷ 1500	
VGZ	screw for timber	9 – 11	200 ÷ 1000	
RTR	threaded rod	16	2200	

## FIELD OF USE

ETA 22/0806 is specifically for timber-concrete applications with VGS, VGZ and RTR all-thread connectors.

The calculation method for evaluating both joint strength and stiffness is made explicit.

The connection allows the transfer of shear, tensile and bending moment stresses between timber elements (CLT, LVL, GL) and concrete, both at floor and wall level.

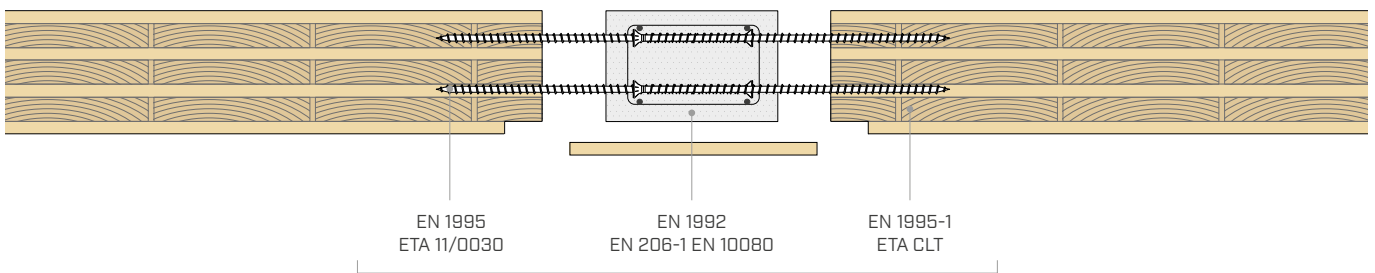


### Rigid joint:

- cut in the panel plane ( $V_y$ )
- out-of-plane cutting ( $V_x$ )
- tension (N)
- bending moment (M)

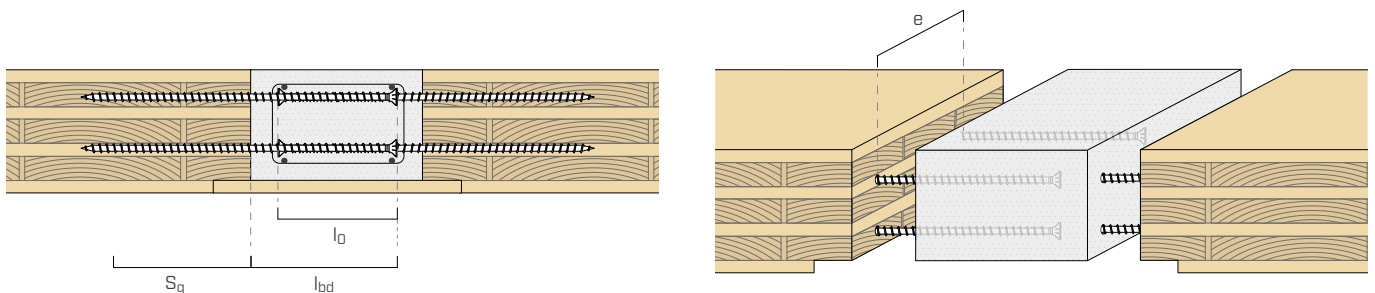
### Hinge joint:

- cut in the panel plane ( $V_y$ )
- out-of-plane cutting ( $V_x$ )
- tension (N)



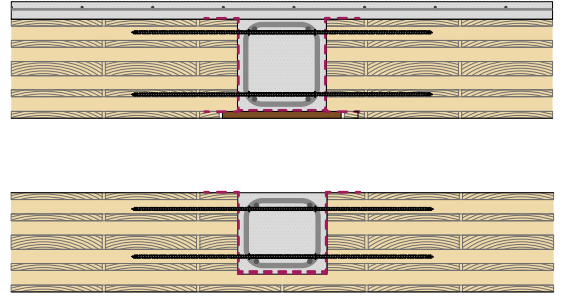
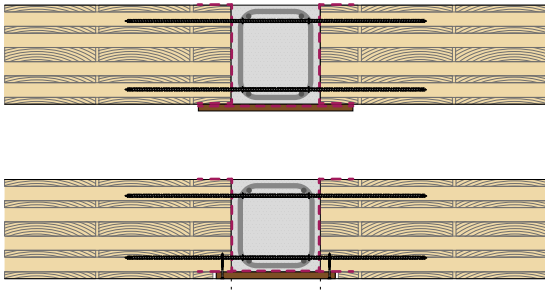
**ETA-22/0806 Rothoblaas  
FOR TIMBER-TO-CONCRETE CONNECTIONS**

## INSTALLATION

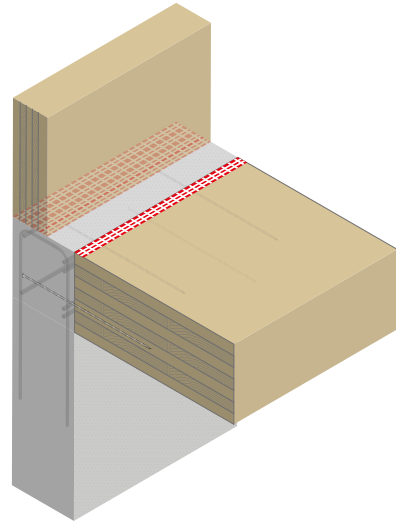
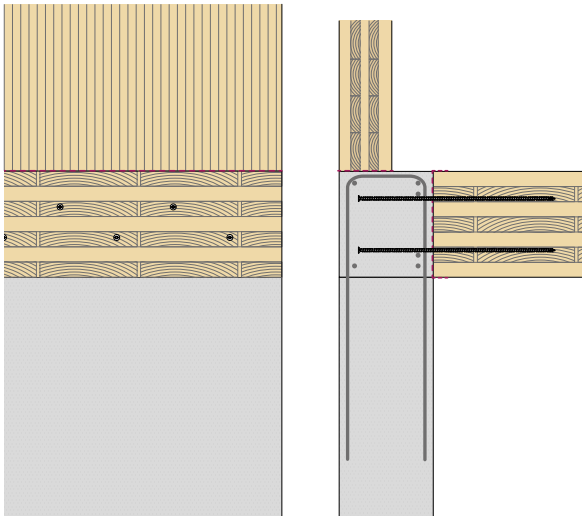


## APPLICATIONS | CLT-CONCRETE

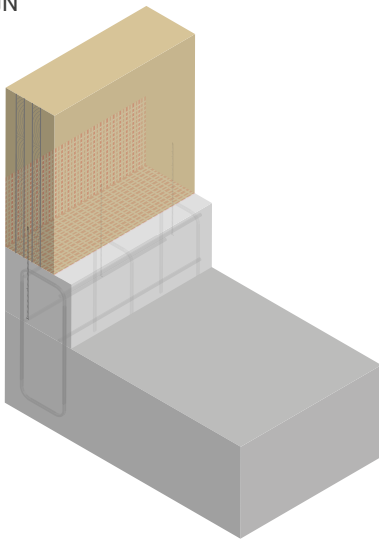
### FLOOR-FLOOR



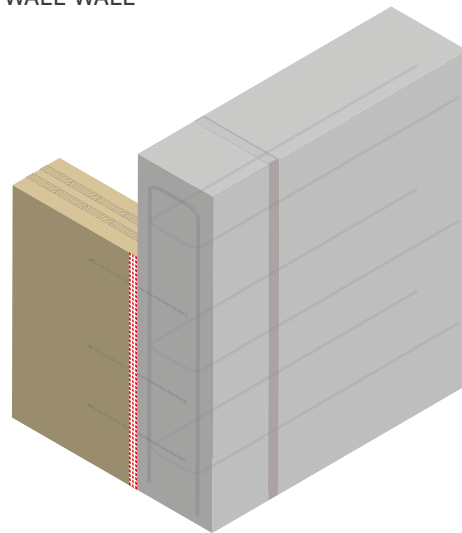
### FLOOR-WALL



### WALL-FOUNDATION



### WALL-WALL



## VGS

FULLY THREADED SCREW WITH  
COUNTERSUNK OR HEXAGONAL HEAD



More information on applications with the TC FUSION system in the data sheets of the VGS and RTR connectors.

Discover them on page 184 and page 230.

## RTR

STRUCTURAL REINFORCEMENT SYSTEM

