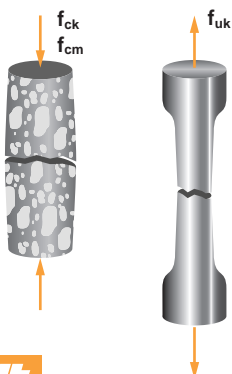
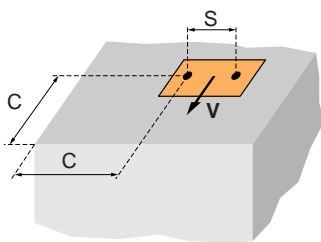
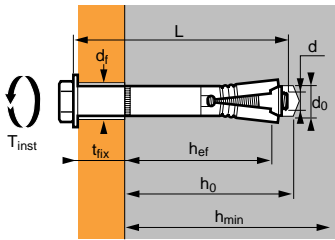
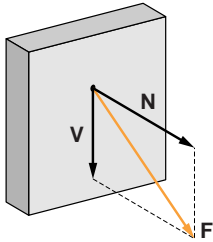


# Terminology

## SYMBOLS USED



### Actions

- $S_k$  Action on the anchor at the serviceability limit state
- $S_d$  Action on the anchor at the ultimate limit state

### Resistance of the anchor

- $R_{u,m}$  Mean ultimate resistance
- $R_k$  Characteristic resistance
- $R_d$  Design resistance
- $F_{rec}$  Recommended resistance

### Type of load

- $N$  Tensile force ( $N_{Sd}, N_{R_{u,m}}, N_{R_k}, N_{R_{dp}}, N_{R_{ds}}, N_{R_{dc}}, N_{rec}$ )
- $V$  Shear force ( $V_{Sd}, V_{R_{u,m}}, V_{R_k}, V_{R_{ds}}, V_{R_{dc}}, V_{rec}$ )
- $F$  Oblique force ( $F_{Sd}, F_{R_{u,m}}, F_{R_k}, F_{R_{ds}}, F_{R_{dc}}, F_{rec}$ )
- $M$  Bending moment ( $M_{R_k}, M_{Rec}$ )

### Anchors

- $h_{ef}$  Effective anchorage depth
- $h_{nom}$  Embedment depth in the concrete
- $d$  Thread diameter
- $d_f$  Clearance hole diameter in the part to be fixed
- $d_{nom}$  External diameter of the anchor
- $L$  Total anchor length
- $\ell_2$  Threaded length
- $T_{inst}$  Required setting torque
- $t_{fix}$  Thickness of the part to be fixed
- $h_{min}$  Minimum thickness of base material

### Distances

- $S$  Distance between 2 anchors
- $S_{cr}$  Spacing for ensuring the realisation of the characteristic resistance
- $S_{min}$  Minimum allowable spacing
- $C_{min}$  Minimum allowable edge distance
- $C_{cr,N}$  Edge distance for ensuring the realisation of the characteristic tensile resistance
- $C_{cr,V}$  Edge distance for ensuring the realisation of the characteristic shear resistance

### Concrete and steel

- $f_{cm}$  Average concrete compression strength
- $f_{ck}$  Characteristic concrete compression strength
- $f_{uk}$  Characteristic steel ultimate strength
- $f_{yk}$  Characteristic yield strength