



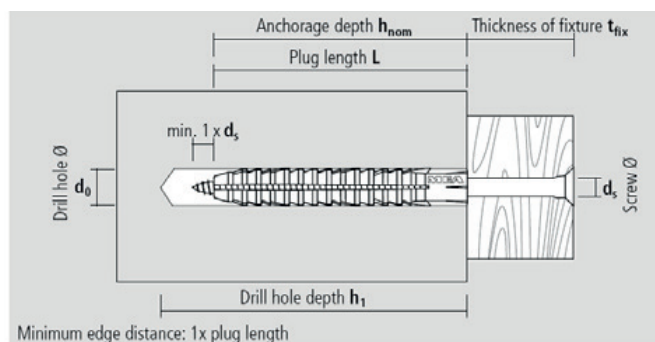
Features

- The extra long expansion area enables fixings in solid and perforated material with dense and porous structure.
- The multiple wing construction secures an anti rotating effect.
- The FL has no collar; it can be used for pre inserted mounting and through mounting.
- The FL is also suitable for reduced setting depth for bridging thin insulations, plaster, etc.

Certificates and approvals



Main dimensions



Base materials

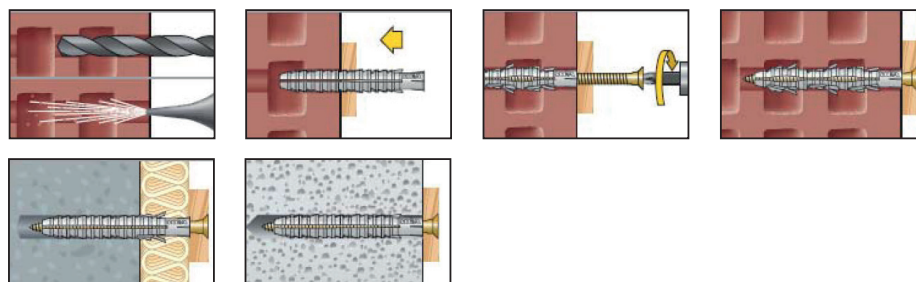
- Natural stone
- Concrete
- Concrete block
- Aerated concrete
- Solid brick
- Hollow brick

Reference	Lenght (mm)	Diameter (mm)
9660FL	60	6
9880FL	80	8
98100FL	100	8
98120FL	120	8
91090FL	90	10
5660FL10	60	6
5880FL10	80	8
51090FL5	90	10

Material

PA6

Installation procedure



Available colors



Grey

Installation parameters

Reference	Drill diameter (mm)	Minimum drill depth (mm)	Screw diameter (mm)	Screw length (mm)
9660FL	6	70	3,5 - 4,5	60
9880FL	8	90	4,5 - 5,5	80
98100FL	8	90	4,5 - 5,5	100
98120FL	8	90	4,5 - 5,5	120
91090FL	10	105	6 - 7	90
5660FL10	6	70	3,5 - 4,5	60
5880FL10	8	90	4,5 - 5,5	80
51090FL5	10	90	6 - 7	90

Recommended loads (KG)*

Reference	Ø Screw d _s	Concrete C20/25	Aerated concrete P2	Aerated concrete P4	Aerated concrete P6	Hollow sand-lime brick KSL 12	Hollow brick HLz 12
9660FL	4,5	17	5	7	15	13	10
9880FL	5,5	33	9	14	30	15	12
98100FL	5,5	33	9	14	30	15	12
98120FL	5,5	33	9	14	30	15	12
91090FL	7	56	19	25	33	22	20
5660FL10	4,5	17	5	7	15	13	10
5880FL10	5,5	33	9	14	30	15	12
51090FL5	7	56	19	25	33	22	20

* Load using wood screws with the largest applicable screw diameter and full anchorage depth. Values for a simple anchor without axial distance influence. Values must be reduced 40% when using chipboard screws (specially in solid building materials).

Recommended edge clearance: 1 x ld

Recommended axis interspacing: 2 x ld