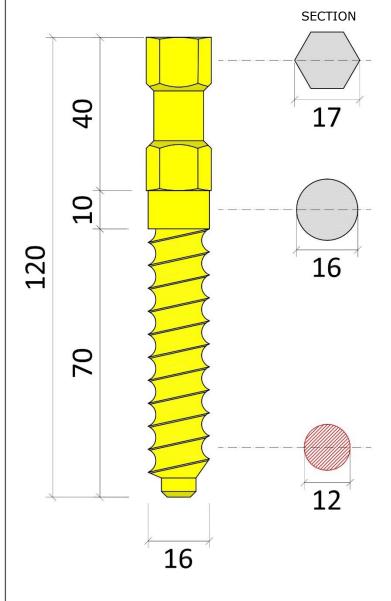


CONCRETE



ALFER CONNECTOR CONCRETE-CONCRETE

STRANDARD TECHNICAL SHEET

CONNECTOR					
Material of the connector	9sMnPb36				
Shear resistance diameter	d	16 mm			
Characteristic breaking strength	fuk	593 N/mm ²			

SPECIFICATION ITEM

Dry connector consisting of a single steel body with a 16 mm diameter, shaped for mechanical hooking to the concrete. The lower part is threaded with a continuous screw pitch 6 R3: external spiral with constant diameter and the tapered internal thread is conical with reverse adaptation. The intermediate part is without thread (maximum shear position) with stop limit and the upper part is shaped with groove gripping the concrete slab.

MECHANICAL VALUES OF THE CONNECTION					
NORMAL STRENGTH CONCRETE (NSC)					
Existing concrete	Rck	20 N/mm ²	fck	16 N/mm ²	
New concrete	Rck	30 N/mm ²	f _{ck}	25 N/mm ²	
Compress strength existing concrete			P _{Rd,1}	30764 N	
Compress strength new concrete			P _{Rd,1}	29580 N	
Shear resistance of the connector			P _{Rd,2}	109451 N	
HIGH STRENGTH CONCRETE (HSC)					
Existing concrete	Rck	30 N/mm²	f _{ck}	20 N/mm ²	
New concrete	Rck	35 N/mm²	f _{ck}	28 N/mm ²	
Compress strength existing concrete			$P_{\text{Rd,1}}$	35200 N	
Compress strength new concrete			P _{Rd,1}	35460 N	
Shear resistance of the connector			P _{Rd,2}	109451 N	
LOW STRENGTH CONCRETE (LSC)					
Existing concrete	Rck	10 N/mm ²	f _{ck}	8 N/mm ²	
New concrete	Rck	30 N/mm ²	f _{ck}	20 N/mm ²	
Compress strength existing concrete			P _{Rd,1}	20470 N	
Compress strength new concrete			P _{Rd,1}	29580 N	
Shear resistance of the connector			P _{Rd,2}	109451 N	

SLAB SECTION		
ON THE EXISTING SLAB	NEW SLAB OLD SL	
ON THE CONCRETE JOIST	NEW SLAB OUT JOIST bt	
ON THE EXISTING SLAB WITH INSULATION	NEW SLAB INSULATION OLD SLAB C1 THE PROPERTY OF THE PROPER	
ON THE CONCRETE JOIST WITH INSULATION	NEW SLAB INSULATION JOIST bt	