

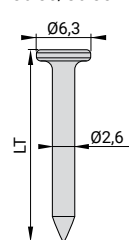
PULSA C6



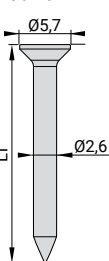
Standard pin for fixing electrical fittings, partition rails and wooden footings in concrete

CHARACTERISTICS

C6-20/C6-25/
C6-30/C6-35



C6-40FH



PULSA C6 PINS

RANGE	Length (mm) LT	Code 500 pcs BOX
C6-20	20	057540
C6-25	25	057541
C6-30	30	057542
C6-35	35	057543
C6-40FH ⁽¹⁾	40	057544

⁽¹⁾ FH version, special strip to fix on wood



MATERIAL

- Black collated strip
- Shank in carbon steel: : C6-20 : hardness 53 to 56 HRC ; C6≥25 : hardness 50 to 55 HRC
- Electrogalvanised, min. zinc coating 5 µm

PULSA GAS TOOLS

PULSA P27 (95 joules)



PULSA P40P+ (100 joules)



PULSA P65 (100 joules)



PULSA METAL ACCESSORIES

RANGE	DESCRIPTION	CODE	MATERIAL
P-CLIP	Metal clip for fixing conduits		
	P-CLIP D.16	016988	Galvanised metal sheet DX51
	P-CLIP D.20	016990	
	P-CLIP D.25	016993	
TRH-CLIP	Metal clip to hang threaded rod (M6 & M8), chains or suspension cables ⁽¹⁾		
	TRH-CLIP	011430	Galvanised metal sheet DC01 Ep.1,5 mm
METAL CABLE TIE	Right angled steel clip for installation of suspended light duty components		
	MCC-0	155721	Galvanised metal sheet S250GD
PERFORATED STRIP	Perforated metal strip for fixing conduits to the floor		
	12 x 0,8 - 10 m	056562	Galvanised metal sheet DC01 Ep. 0,8 mm
	17 x 0,8 - 10 m	056561	
STEEL WASHER	Steel washer to fix wire mesh & waterproofing membranes		
	Washer D.25 +Pin guide for fixing steel washer : P40/P65 : 014641 P27 : 019891	011204	Galvanised metal sheet

⁽¹⁾ Not suitable for fixing suspended ceilings



PULSA C6

PULSA PLASTIC ACCESSORIES

RANGE	DESCRIPTION	CODE	MATERIAL	INCANDESCENT WIRE TEST ISO CEI 695-2	INSTALLATION / WORKING TEMPERATURES	
CLIPLEC						
	CLIPLEC Black	011203	Polypropylen copolymer	750°	-5°C + 35°C -30°C +55°C	
	CLIPLEC Grey	053881				
MULTICLIP						
Multi-purpose data & cable clip for the fast installation of specialised & standard cables using soft VELCRO™ style straps & plastic cable ties						
	Ø mini 16 Ø maxi 32	565843	Polypropylen	650°C	-5°C + 35°C -30°C +55°C	
TIE-CLIP						
Base plate with cable tie for fixing conduit & cable						
	Ø mini 16 Ø maxi 32	565844	Polyamid 6.6	650°C	-5°C +35°C -40°C +70°C	
E-CLIP						
For fast installation of RNC and rigid conduit						
	E-CLIP D.16	567214	Polypropylen	650°C	-5°C + 35°C -30°C +55°C	
	E-CLIP D.20	565032				
	E-CLIP D.25	565033				
	E-CLIP D.32	565034				
P-CLIP						
Single and double plastic base for fixing flexible water/electricity pipes						
	P-CLIP 16	567206	Polypropylen	650°C	-5°C + 35°C -30°C +60°C	
	P-CLIP 20	565082				
	P-CLIP 25	567208				
	P-CLIP 16 x 16	567209				
	P-CLIP 20 x 20	565086				
CABLE BOW						
Single and double bows for fixing cables to ceilings						
	S - 8 cables 3 x 1,5	565915	Polyamid 6 Light grey colour	650°C	-5°C + 35°C -20°C +70°C	
	D - 16 cables 3 x 1,5	565916				
	S - 8 cables 3 x 1,5 FIRE	565917	Polyamid 6 - GW960 Dark grey colour	960°C		
	D - 16 cables 3 x 1,5 FIRE	565918				
PLAKELEC						
Plastic flange for fixing flat cable						
	Flat cable 2G 1,5 mm² 3G 1,5 mm² 4G 1,5 mm²	057699	Polypropylen Natural colour	650°C	-5°C + 35°C -30°C +55°C	



PIN SELECTION GUIDE

FIXING METAL TRACKS FOR DRYWALLERS		CONCRETE BASE MATERIAL	C6-20	C6-25	C6-30	C6-35	C6-40FH
METAL TRACKS on floors and walls 	Spacing between partition studs: 600 mm	C20/25	◆	◆			
		C30/37	◆				
FIXING ACCESSORIES FOR ELECTRICIANS		CONCRETE BASE MATERIAL	C6-20	C6-25	C6-30	C6-35	C6-40FH
 	Metal clip TRH-CLIP Clip MCC-O Perforated metal strip	C20/25	◆				
		C30/37	◆				
 	CLIQUELEC TIE-CLIP P-CLIP MULTICLIP ECLIP Cable bow	C20/25	◆				
		C30/37	◆				
	PLAKELEC	C20/25	◆				
		C30/37	◆				
FIXING WOOD		CONCRETE BASE MATERIAL	C6-20	C6-25	C6-30	C6-35	C6-40FH
WOOD STRUCTURES on floors and ceilings 	Thickness of part to be fixed: 5 - 10 mm	C20/25		◆	◆		
		C30/37	◆	◆			
	Thickness of part to be fixed: 15 - 20 mm	C20/25				◆	◆
		C30/37			◆	◆	
	Thickness of part to be fixed: 20 - 27 mm	C20/25					◆
		C30/37				◆	◆
FIXING WATERPROOF SYSTEM		CONCRETE BASE MATERIAL	C6-20	C6-25	C6-30	C6-35	C6-40FH
Wire mesh Nergalto® 	Steel washer	C20/25	◆				
		C30/37	◆				

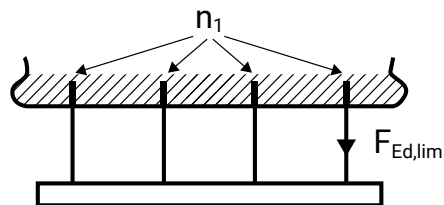


PERFORMANCES FOR NON STRUCTURAL APPLICATIONS

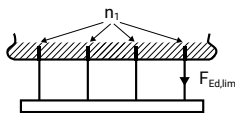
Design principle :

- Non-structural applications
- Redundant systems with aligned fixing points $\geq n_1$

The principle of redundant systems allows the redistribution of loads in case of excessive slip or failure of one fastener to neighbouring fasteners: $n_1 \cdot F_{Rd} \geq F_{Ed}$



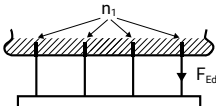
NON CRACKED CONCRETE

REDUNDANT SYSTEMS	CONCRETE BASE MATERIAL	EMBEDMENT DEPTH [mm]	ACTIONS at ULS (Ultimate Limit State)	
			[kN]	
			F_{Rk}	F_{Rd}
 - $n_1 \geq 4$; $F_{Ed,lim} \leq 0,6 \text{ kN}$ - $n_1 \cdot F_{Rd} \geq F_{Ed}$	C20/25 to C30/37	15 mm	0,87	0,58
		18 mm	1,19	0,79
		20 mm	1,41	0,94

PERFORMANCE FOR LIGHT CABLE TRAY FIXINGS

Density of fixing points:

- Horizontal cable tray: 0,40 m for non-reinforced cables
0,75 m for reinforced cables
- Vertical cable tray: 1,00 m for all cable types

LIGHT-WEIGHT CABLE TRAY FIXINGS Technical approval CSTB no. 3.1/22-1062		CONCRETE BASE MATERIAL	EMBEDMENT DEPTH [mm] h_{nom}	DESIGN RESISTANCES PIN & ACCESSORY SYSTEM [kN] $F_{Rd,syst}$	ACTIONS at ULS (Ultimate Limit State) PER EACH METER LENGTH F_{Ed}/ml [kN] $S = 0,40\text{ m}$ $S = 0,75\text{ m}$ $S = 1,00\text{ m}$		
 $n_1 \geq 10$ $F_{Ed,lim} \leq 0,1\text{ kN/ml}$							
METAL P-CLIP D.16 to D.25	Clou C6-20			C20/25 to C30/37	18 mm	0,15	0,37
CLIPLEC							
MULTICLIP							
TIE-CLIP	Clou C6-20	C20/25 to C30/37	17 mm	0,035	0,087	0,045	0,035
E-CLIP							
P-CLIP SINGLE							
P-CLIP DOUBLE							
SINGLE CABLE BOW							
DOUBLE CABLE BOW							
PLAKELEC							