

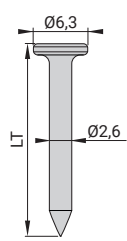
# PULSA C6



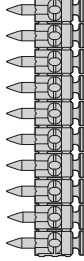
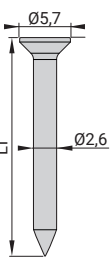
Standard pin for fixing electrical fittings, partition rails and wooden footings in concrete

## CHARACTERISTICS

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



C6-40FH



## PULSA C6 PINS

RANGE	Lenght (mm) LT	Code 500 pcs BOX
C6-20	20	057540
C6-25	25	057541
C6-30	30	057542
C6-35	35	057543
C6-40FH <sup>(1)</sup>	40	057544

<sup>(1)</sup> 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





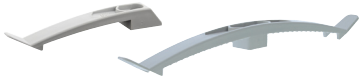

RANGE	DESCRIPTION	CODE	MATERIAL
P-CLIP	Metal clip for fixing conduits		
	P-CLIP D.16	057495	Galvanised metal sheet DX51
	P-CLIP D.20	057496	
	P-CLIP D.25	057497	
	P-CLIP D.32	057498	
TRH-CLIP	Metal clip to hang threaded rod (M6 & M8), chains or suspension cables <sup>(1)</sup>		
	TRH-CLIP	011430	Galvanised 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, 25mm		
	Washer D.25 +Pin guide for fixing steel washer : P40/P65 : 014641 P27 : 019891	011204	Galvanised metal sheet

<sup>(1)</sup> Not suitable for fixing suspended ceilings



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## PULSA PLASTIC ACCESSORIES

RANGE	DESCRIPTION	CODE	MATERIAL	INCANDESCENT WIRE TEST ISO CEI 695-2	INSTALLATION / WORKING TEMPERATURES
<b>CLIPLEC</b> All purpose base plate for use with cable ties up to 9 mm wide for fixing conduit & cable ; Allogene free ; UV protected (black version)					
	CLIPLEC Black	011203	Polypropylen copolymer	750°	-5°C + 35°C -30°C +55°C
	CLIPLEC Grey	053881			
<b>MULTICLIP</b> 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
<b>TIE-CLIP</b> 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
<b>E-CLIP</b> 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			
<b>P-CLIP</b> 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			
<b>CABLE BOW</b> Single and double bows for fixing cables to ceilings					
	S - 8 cables 3 x 1,5	565915	Polypropylen copolymer 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	Polypropylen copolymer Dark grey colour	960°C	
	D - 16 cables 3 x 1,5 FIRE	565918			
<b>PLAKELEC</b> Plastic flange for fixing flat cable					
	Flat cable 2G 1,5 mm <sup>2</sup> 3G 1,5 mm <sup>2</sup> 4G 1,5 mm <sup>2</sup>	057699	Polypropylen Natural colour	650°C	-5°C + 35°C -30°C +55°C

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## 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	◆				
 	CLIPELEC 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	◆				



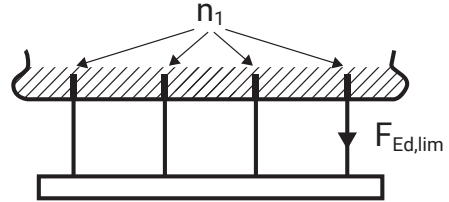
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## PERFORMANCES FOR NON STRUCTURAL APPLICATIONS

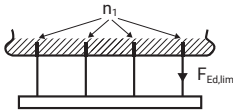
Design principle :

- 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]	
 <ul style="list-style-type: none"> <li>- <math>n_1 \geq 4</math> ; <math>F_{Ed,lim} \leq 0,6 \text{ kN}</math></li> <li>- <math>n_1 \cdot F_{Rd} \geq F_{Ed}</math></li> </ul>	C20/25 to C30/37	$h_{nom}$	$F_{Rk}$	$F_{Rd}$
		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]	DESIGN RESISTANCES PIN & ACCESSORY SYSTEM [kN]	ACTIONS at ULS (Ultimate Limit State) PER EACH METER LENGTH $F_{Ed}/m$ [kN]		
				$F_{Rd,sys}$	S = 0,40 m	S = 0,75 m
METAL P-CLIP D.16 to D.25	Clou C6-20	C20/25 to C30/37	0,15	0,37	0,20	0,15
CLIPELEC						
MULTICLIP						
TIE-CLIP	Clou C6-20	C20/25 to C30/37	0,035	0,087	0,045	0,035
E-CLIP						
P-CLIP SINGLE						
P-CLIP DOUBLE						
SINGLE CABLE BOW						
DOUBLE CABLE BOW						
PLAKELEC						