IORAWLPLUG®

BASE MATERIALS V

Cracked and non-cracked concrete \geq C12/15 (Use category A) Solid Brick (Use category B) Solid Sand-lime Brick (Use category B) Hollow Sand-lime Brick (Use category C) Hollow Brick (Use category C) Hollow Lightweight Concrete Block (Use category D) Aerated Concrete Block (Use category D)



PRODUCT INFORMATION V

	Plug		Screw		Fixture					Quantity			
Product Code	Diameter	Length	Diameter	Length	Max. th t _{fix, hef} =40mm		ickness t _{fix, hef} =50mm		Hole diameter	Box		Outer	
	mm	mm	mm	mm	mm		mm		mm	pcs	s pcs		
R-FFS-N-10K050	10	50	7	59		10		-		50		800	
R-FFS-N-10K060	10	60	7	69	20		10		12,5	50 600		600	
R-FFS-N-10K080	10	80	7	89	40		30		12,5	50 400		400	
R-FFS-N-10K100	10	100	7	109	60		50		12,5	25	25 300		
R-FFS-N-10K120	10	120	7	129	80 70)	12,5	25		300		
Substrate				Concrete C12/15	Concrete C16/20	Solid clay brick min 20MPa (eg Mz20/2.0)	Sand-lime solid brick	Sand-lime hollow block min. 20MPa	Perforated clay brick HLz	Silicate hollow block min 12MPa (eg KS Ratio Block 8 DF)	Lightweight concrete hollow block	Autoclaved aerated concrete AAC 4MPa	
Effective embedment depth 40 mm [kN]			3.00	4.00	-	-	-	-	-	-	-		
Effective embedment depth 50 mm [kN]			-	-	2.00	3.50	4.00	0.60	2.00	0.75	1.50		
Effective embedment depth 40 mm [kN] Effective embedment depth 50 mm [kN]			1.66 -	2.22 -	- 0.80	- 1.40	- 1.60	0.24	- 0.80	- 0.30	- 0.75		
Effective embedment depth 40 mm [kN]			1.19	1.58									
Effective embedment depth 50 mm [kN]					0.57	1.00	1.14	0.17	0.57	0.21	0.53		



FFS frame fixing has been created for mounting in concrete, however its unique design allows to obtain high parameters in all base materials A, B, C&D!

Lightweight fixings Frame fixing with the shortest anchoring zone





INSTALLATION GUIDE 💛



Rawlplug Ltd Skibo Drive Thornliebank Industrial Estate Glasgow G46 8JR

Installation in concrete and other substrates (A,B,C,D)

Installation with punch-tool in aerated concrete

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IORAWLPLUG®

R-FFS

FRAME FIXING WITH THE SHORTEST ANCHORING ZONE

Quick assembly, thanks to two reduced anchoring depths





TWO ANCHORING DEPTHS

to ensure the highest performance in concrete and masonry materials



UNIVERSAL FIXING 💛

The unique expansion zone ensures optimal anchorage depth, guaranteeing the highest fastener load capacity. Thanks to this, it can be used in all types of substrates.

Quick assembly is ensured by shallow anchoring - only 40 mm in concrete and solid brick* and **50 mm** in other materials. R-FFS can also be used for outside conditions with the use of a bituminous coating - which is confirmed in the European technical assessment (ETA). The thickened flange excludes contact corrosion between the material screw and the fixed structure (aluminum or steel).

*solid brick based on RAD data, 50 mm anchoring according to data in ETA

APPLICATIONS V

Ventilated facades

High load capacity, 40 mm anchoring, many certified base materials, A1 fire classification and fire resistance R90 makes R-FFS ideal for fixing facades. Quick installation thanks to the punch-tool in aerated concrete significantly speeds up and easier to work.

Window frames

Thanks to quick and easy installation they are ideal for mounting window frames.

Balustrades and handrails

High load capacities and the use of steel class 6.8 make it recommended for light steel structures like balustrades, handrails and porte-fenêtre.

Garage Doors

With a very high strength is an ideal combination for installation of garage doors.

Door frames

Use of a fixing with the shortest anchorage zone ensures the fastest frame fitting.

FIRE

ZP

Wooden constructions

It enables mounting of wooden structures and elements to a thickness of 80mm.

Light constructions

Ideal for home installations - mounting a satellite dish, TV mount, cabinet or shelf.

Speed of work. Versatility!



A1 fire classification allow the product to be used in the most demanding assembly applications

Minimized installation time - onlv 40 mm

A unique

anchoring zone quarantees achievement of the highest technical parameters for professional applications

> Available lengths in the range of **50 - 120 mm**

High shear strength thanks the use of steel arade **6.8**

Frame fixing with collar designed for fixing the facade ventilated and

window frames

Ouick installation thanks 2 reduced anchoring depths: 40 mm in concrete and solid brick* (categories A and B*) **50 mm** in substrates with hollow brick and aerated concrete (categories C and D)

Punch-tool to increase a performance in aerated concrete

SPEED +40%

VERSATILITY

SECURITY

HIGH STRENGTH



