

## PRODUCT INFORMATION

Items	Coated								Anchor	
		HDG	ZP	M8	M10	M12	M16	M20	Length [mm]	
	R-XPTIIIHD	✓	-	✓	✓	✓	✓	✓	-	60-220
	R-XPTIII ZP	-	✓	✓	✓	✓	✓	✓	✓	60-300

## TECHNICAL DATE

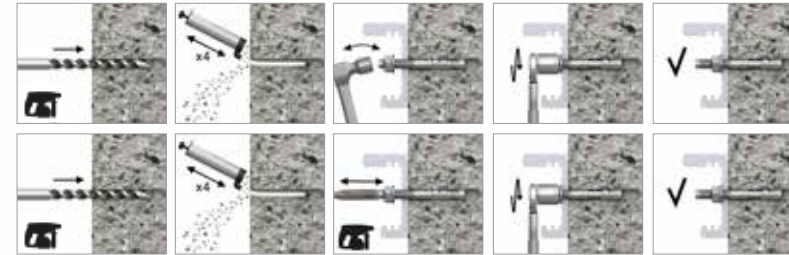
Effective adchorage depth		Standard		Reduced		Standard		Reduced		Standard		Reduced	
R-XPTIII													
Drill hole diameter	$d_0$	[mm]	Ø8	Ø10	Ø12	Ø16	Ø20						
Hole diameter in fixture	$d_f$	[mm]	9,0	12,0	14,0	18,0	22,0						
Overall embedment depth in concrete	$h_{nom} \geq$	[mm]	55,0	40,0	60,0	50,0	80,0	60,0	100,0	80,0	116,0	96,0	
Hole depth in substrate	$h_0 \geq$	[mm]	60,0	65,0	65,0	55,0	90,0	70,0	110,0	90,0	126,0	106,0	
Installation torque moment	$T_{ins}$	[mm]	15,0		30,0		50,0		100,0		30,0		
Minimum thickness of concrete member	$h_{min} \geq$	[Nm]	100,0	100,0	100,0	100,0	136,0	100,0	170,0	130,0	170,0	200,0	
Minimum spacing	$s_{min}$	[mm]	60,0	35,0	65,0	50,0	100,0	70,0	120,0	90,0	150,0	120,0	
Minimum edge distance	$c_{min}$	[mm]	60,0	40,0	65,0	50,0	100,0	70,0	120,0	90,0	120,0	150,0	
Effective embedment depth	$h_{ef}$	[kN]	47,0	32,0	50,0	40,0	68,0	48,0	85,0	65,0	100,0	80,0	
R-XPTIII ZP/ R-XPTIII HD													
Characteristic resistance under tension load (steel failure)	$N_{Rk,s}$	[kN]	17,5		27,6		40,0		71,1		108,1		
Characteristic resistance under tension load (pull-out failure uncracked concrete)	$N_{Rk,p}$	[kN]	14,0	8,9	17,4	12,4	27,6	16,4	38,6	25,8	49,2	35,2	
Characteristic resistance under shear load (steel failure)	$V_{0Rk,s}$	[kN]	10,9		17,4		20,4		42,0		73,5		

## EasyFix DESIGN APPLICATION

An innovative application that allows you to perform calculations for the implementation of the necessary fasteners various types of elements in construction using Rawlplug® brand products. Rawlplug EasyFix is being created based on the latest design guidelines, compliant with EAD, ETAG and EUROCODE, providing calculations compliance, precision and ultimate usability. Program modules are dedicated to specific segments execution works. Each of them allows to perform real-time calculations, giving the user unlimited possibilities of adjusting fasteners and elements fastened to real needs in a given moment. The application contains categories: anchors, constructions concrete, wind calculations, roads and bridges.



## INSTALLATION GUIDE



1. Drill the hole with rotary hammer drilling machine. Drill to a required depth.
2. Remove the drill cuttings and thoroughly clean the hole using the pump 4 times.
3. Insert the anchor into the hole through the fastened element and tap it with a hammer or hammer to the appropriate depth.
4. Using a torque wrench, tighten the nut to the required torque.



The R-XPTIII anchor is available in three versions:

- made of carbon steel with Hot Dip Galvanized coating,
- made of carbon steel with Zinc Plated coating.

The anchor is recommended for a wide range of applications, working perfectly in uncracked C20/25-C50/60 concrete.

## BASE MATERIAL

- Non-cracked concrete C20/25-C50/60
- Unreinforced concrete, reinforced concrete
- Natural Stone (after site testing)



# R-XPTIII

” NEXT GENERATION THROUGH BOLTS



CONCRETE  
C20/25 - C50/60

Trust & Innovation

www.rawlplug.co.uk

## ” NEXT GENERATION THROUGH BOLTS

Wide application possibilities



Throughbolt R-XPTIII is characterized by a reduced anchorage depth, high load-bearing capacity allows anchoring to be shallower and to attach a larger fastener. Thanks to their new design, the R-XPTIII anchors carry high loads, ensuring the highest safety.

### PRODUKTY POWIĄZANE

**R-PRH-26850**  
Hammer drill  
SDS-PLUS, 850 W, 2,5J



**RT-SDSA**  
Drill  
Agressor  
SDS plus



**R-PRH18**  
Hammer drill 18V  
SDS-PLUS 2,0J 5,0Ah



**RT-SDSR**  
Drill  
Rebardrill  
SDS plus



**R-HTW-20-100**  
Torque wrench  
20-100 Nm 1/2"



**RT-SDSI-MA150**  
Punch tool



**RT-IS**  
Impact socket 1/2"



**RT-HAM**  
Hammer



# Fast, effective and secure anchoring

Identification mark anchor length at the target clamping

Washer - hot-dip galvanized steel; hex nut - hot-dip galvanized steel

Two kinds of washer

**EasyFix**  
The product has support software for design **EasyFix** fixings

Depth marker facilitating the installation anchor in the hole

The anchor size, diameter, length and embedment depth engraved on the shank

**ETA**  
Mechanical properties  
**EAD 330232-01-0601**



Wide range of applications in concrete C20/25-C50/60

Standard and reduced anchorage depth

Polish production Polish steel



Marking:  
- Producer **RAWLPLUG**  
- HD coating,  
- ZP Coating,

Expansion band made of carbon steel ZP and stainless steel A4

Optimized cone shape, increasing the resistance in concrete

”

## III GENERATION THROUGH BOLT R-XPTIII, OPTION 7

The new generation of R-XPTIII band anchors offers even more possibilities:

- Optimized cone shape, which translates into greater load capacity of the anchor in concrete;
- Anchor length identification mark to identify embedment length/depth. Facilitates post-installation inspection;
- Reliable and simple installation thanks to the use of pass-through mounting;
- Can be used outdoors;
- New shape of the expansion band with an innovative ring at the end of the band, which ensures a perfect connection between the anchor and the substrate;
- Reduced displacement under load;
- Polish production;
- Screws are produced in one of the largest and most renowned cold forming factories in Europe, with experience in the automotive and industrial sectors.

### PARAMETERS

Variable embedment depth, ZP coating, HDG and a wide range of lengths allows you to choose the optimal solution for each application and fixture.

### R-XPTIII-HD ANCHOR CAN BE USED OUTDOORS WITHIN COMPLIANCE WITH ISO 12944-2:1998

Corrosivity category	Corrosion	Durability
		Thickness in accordance with chapter 8.3 > 50um with average durability in years
C1	Very low	500*
C2	Short	75
C3	Mean	25
C4	High	12,5
C5	Very high	5
CX	Extreme	2

\*Working life of anchor not exceeding 50 years

### FULL MOUNTING SYSTEMS INCLUDING ACCESSORIES R-XPTIII

	M10	M12	M16	M20	
<b>RT-IS</b> Impact socket 1/2"	SW13	SW17	SW19	SW24	SW30
<b>RT-SDSR</b> Drill Rebardrill SDS plus	Ø8	Ø10	Ø12	Ø16	Ø20

