

# R-HTPIII-ZP

**CARBON STEEL THROUGHBOLT ANCHOR WITH ZP COATING FOR CRACKED AND UNCRACKED CONCRETE**

A new generation of R-HPTIII band anchors  
- With variable embedment depth.



## FEATURES AND BENEFITS ✓

Variable anchoring depth - allows you to choose embedment depth depending on the step anchor loads

Fire resistance R30-R120

Corrosion class of the anchor C1-C5

High performance in cracked concrete and uncracked C20/25-C50/60

Anchor pin and band finished made of carbon steel with ZP coating

Short distances from the edge of the concrete and between the anchors

Anchor length identification mark in order determine the length/depth of the embedment. Allows the anchor to be identified after anchoring

Anchor size indicated on the bolt

Can be used to fasten steel/aluminum and wood elements

Quick and comfortable assembly with the application SDS mallet

Reliable and simple installation - due to the application through mounting anchoring is provided quick and simple

New shape of the expansion band with an additional locking lock and innovative ring at the end of the headband provides excellent connection between the anchor and the ground

Guarantee of maximum safety and best performance, confirmed by international standards approvals and certified tests laboratories

Application specification according to EAD 330232-01-0601 and included in ETA-21/1082



## SUBSTRATES ✓



Non-cracked concrete C20/25-C50/60



Cracked concrete C20/25-C50/60



Unreinforced concrete, Reinforced concrete



Natural Stone (after site testing)



The R-HTPIII-ZP band anchor is an innovative anchor characterized by a variable embedment depth. High load capacities allow for shallower anchoring and fastening of a thicker fastener elements.

## APPLICATIONS

Ventilated facades

Barriers and railings

Steel structures

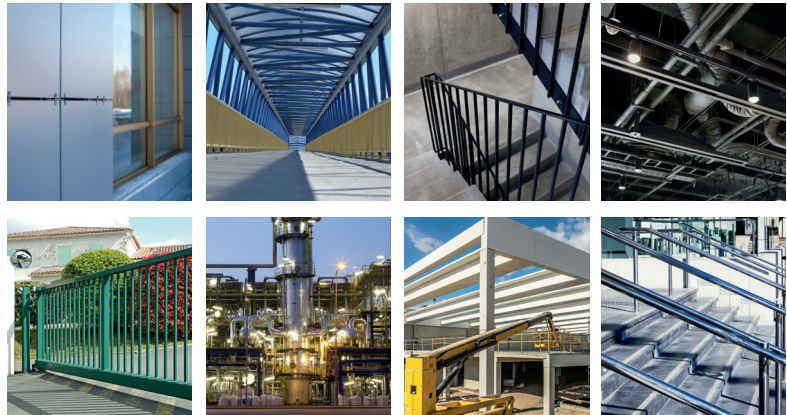
Curtain walls

Heavy equipment

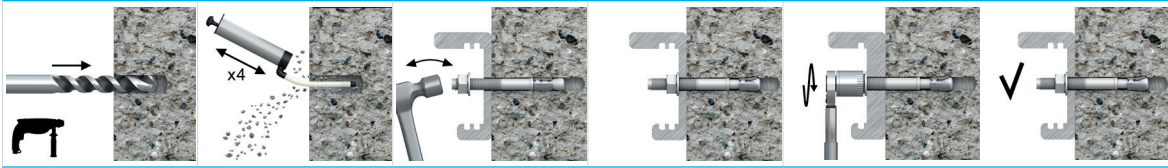
Fences and gates

Passenger lifts and platforms

Stadium seats



## 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 with a brush and pump.
3. Insert the anchor into the hole through the fastener and hit it with a hammer to the appropriate depth.
4. Using a torque wrench, tighten the nut to the required torque.

## PRODUCT INFORMATION

Size	Product	Diameter		Length		The diameter of the hole in the fastened element		Maximum thickness fastened element	
		d		L		d <sub>f</sub>		t <sub>fix,max</sub>	
		[mm]		[mm]		[mm]		[mm]	
M8	R-HTPIII-ZP08060/10	8		60		9		20	
	R-HTPIII-ZP08075/25	8		75					
	R-HTPIII-ZP08085/35	8		85					
	R-HTPIII-ZP08095/45	8		95					
	R-HTPIII-ZP08105/55	8		105					
	R-HTPIII-ZP08115/65	8		115					
M10	R-HTPIII-ZP10065/5	10		65		12		40	
	R-HTPIII-ZP10080/20	10		80					
	R-HTPIII-ZP10095/35	10		95					
	R-HTPIII-ZP10115/55	10		115					
	R-HTPIII-ZP10130/70	10		130					
M12	R-HTPIII-ZP12080/5	12		80		14		60	
	R-HTPIII-ZP12100/25	12		100					
	R-HTPIII-ZP12115/40	12		115					
	R-HTPIII-ZP12125/50	12		125					
	R-HTPIII-ZP12135/60	12		135					
	R-HTPIII-ZP12150/75	12		150					

## INSTALLATION DATA







R-HTPIII-A4			M8		M10		M12	
Drill hole diameter	d <sub>0</sub>	[mm]	Ø8		Ø10		Ø12	
Nominal embedment depth	h <sub>nom</sub> ≥	[mm]	40-77		48-108		60-135	
Maximum thickness of fixture	t <sub>fix,max</sub>	[mm]	135,0		140,0		225,0	
Depth of drill hole	h <sub>0</sub> ≥	[mm]	45-82		53-113		68-143	
Installation torque	T <sub>inst</sub>	[Nm]	15,0		30,0		50,0	
Minimum member thickness	h <sub>min</sub> ≥	[mm]	80,0	100,0	80,0	120,0	100,0	140,0
Minimum edge distance	s <sub>min</sub>	[mm]	35,0		40,0		50,0	
Minimum spacing	c <sub>min</sub>	[mm]	40,0		45,0		55,0	
Effective embedment depth	h <sub>ef</sub>		33-47	48-70	40-59	60-100	50-69	70-125

R-HTPIII-A4			M8		M10		M12	
Characteristic tension steel failure-Steel	N <sub>Rk,s</sub>	[kN]	20,4		32,2		48,7	
Effective embedment depth (Pull-out failure) cracked concrete	N <sub>Rk,p</sub>	[kN]	7,1	7,5	16,0	16,0	20,2	20,2
Effective embedment depth (Pull-out failure) non cracked concrete	N <sub>Rk,p</sub>	[kN]	8,5	12,0	22,9	22,9	30,0	30,0
Characteristic resistance - Steel	V <sub>Rk,s</sub> <sup>0</sup>	[kN]	14,6		24,7		32,6	

**PRODUCT COMMERCIAL DATA** 

Size	Product	Diameter	Length	Package weight unitary	Quantity	
		d	L		Packaging single	Quantity on the pallet
		[mm]	[mm]			
M8	R-HPTIII-ZP08060/10	8	60	27,2	100	16000
	R-HPTIII-ZP08075/25	8	75	29,15	100	16000
	R-HPTIII-ZP08085/35	8	85	33,3	100	12000
	R-HPTIII-ZP08095/45	8	95	36,7	100	12000
	R-HPTIII-ZP08105/55	8	105	40,9	100	12000
	R-HPTIII-ZP08115/65	8	115	42,61	100	12000
M10	R-HPTIII-ZP10065/5	10	65	47,42	50	8000
	R-HPTIII-ZP10080/20	10	80	55,14	50	8000
	R-HPTIII-ZP10095/35	10	95	62,28	50	8000
	R-HPTIII-ZP10115/55	10	115	72,22	50	6000
	R-HPTIII-ZP10130/70	10	130	80,02	50	8000
M12	R-HPTIII-ZP12080/5	12	80	208,5	50	16000
	R-HPTIII-ZP12100/25	12	100	239,2	50	16000
	R-HPTIII-ZP12115/40	12	115	275	50	12000
	R-HPTIII-ZP12125/50	12	125	288	50	12000
	R-HPTIII-ZP12135/60	12	135	296	50	6000
	R-HPTIII-ZP12150/75	12	150	324	50	4000

**RELATED PRODUCT** 

DRILLING		POWER TOOLS	ACCESSORIES FOR POWER TOOLS
		<p>Hammer drill SDS-PLUS, 850 W, 2,5J <b>R-PRH26850</b></p> 	<p>Hammer drill 18V SDS-PLUS 2,0J 5,0Ah <b>R-PRH18</b></p> 
		<p>Torque wrench 20-100 Nm 1/2" <b>R-HTW-20-100</b></p> 	
		<p>Drill Aggressor SDS Plus <b>RT-SDSA</b></p> 	<p>Drill Rebar drill SDS Plus <b>RT-SDSR</b></p> 
		<p>Impact sockets 1/2" <b>RT-IS</b></p> 	<p>Hammer <b>RT-HAM</b></p> 