# TECHNICAL DATASHEET







#### **EXAMPLE OF APPLICATION**



# TECHNICAL DATASHEET



HOR			
Description: SCREWS FOR CONCRETE	Codes: HR, HP, HPZ, HE		
Denomination: FT HOR-en	Date: 08/06/15	Version: 5	Page: 2 of 4

## 1. RANGE

ITEM	PICTURE	CODE	SIZE	MATERIAL
1		HR	7.5 x 72 Ø6 7.5 x 92 Ø6 7.5 x 112 Ø6 7.5 x 132 Ø6	Zinc plated yellow passivated hardened steel ISO 4042 A1K Hexalobular Tx 25 recess round head
2		НР	7.5 x 72 Ø6 7.5 x 92 Ø6 7.5 x 112 Ø6 7.5 x 132 Ø6 7.5 x 152 Ø6 7.5 x 182 Ø6	Zinc plated yellow passivated hardened steel ISO 4042 A1K Hexalobular Tx 30 recess countersunk head
3		HPZ	7.5 x 72 Ø6 7.5 x 92 Ø6 7.5 x 112 Ø6 7.5 x 132 Ø6 7.5 x 152 Ø6 7.5 x 182 Ø6 7.5 x 212 Ø6	Zinc plated hardened steel ISO 4042 A2J Hexalobular Tx 30 recess countersunk head
4		HE	6.5 x 32 Ø5 6.5 x 45 Ø5 6.5 x 57 Ø5 6.5 x 70 Ø5 6.5 x 80 Ø5 6.5 x 100 Ø5 6.5 x 125 Ø5	Blue Ruspert hardened Steel, diamond point shape. #8 Hexagonal slotted head and stamped washer.

TECHNICAL DATASHEET			FIXING SYSTEMS
HOR			
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# 2. INSTALLATION DATA





CODE	Head diameter	Head thickness	Thread diameter	Length	Fixture thickness	Maximum torque	Embedment depth	Pilot hole	Recess
	d <sub>k</sub> [mm]	k [mm]	D [mm]	l [mm]	t <sub>fix</sub> [mm] ≤	T <sub>ins</sub> [Nm]	h₀[mm] ≥	d₀[mm]	
HR75072			7.5	72	32	15	40	6	Tx 25 (PUTO025)
HR75092	0	8 3		92	52				
HR75112	0			112	72				
HR75132				132	92				
HP75072				72	32			6	Tx 30 (PUTO030)
HP75092				92	52				
HP75112				112	72				
HP75132	11	3	7.5	132	92	20	40		
HP75152				152	112				
HP75182				182	142				
HP75212				212	172				
HPZ75072			3 7.5	72	32	20	40	6	Tx 30 (PUTO030)
HPZ75092		3		92	52				
HPZ75112				112	72				
HPZ75132	11			132	92				
HPZ75152				152	112				
HPZ75182				182	142				
HPZ75212				212	172				
HE65032				32	2	12	30	5	
HE65045	Slotted		5 6.5	45	15				Hexagonal
HE65057	hexagonal	_		57	27				magnetic bit
HE65070	head with	5		70	40				(BOCA008)
HE65080	stamped			80	50				and flat
HE65100	washer ø 11.3			100	70				screwdriver
HE65125				125	95				

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### **3. RECOMMENDED LOADS**

Maximum recommended load in C20/25\* concrete for an isolated screw (nor spacing neither edge distance effects) is as per this table:

CODE	TENSION LOAD [KN]	
	HR75XXX	
	HP75XXX	1.00
	HPZ75XXX	
	HE65XXX	0.65
	1KN ≈	100 Kg

- \* C20/25 concrete as per ENV206: characteristic resistance for  $\ge$  28 days old:
- Cylindrical sample specimen ø 150 mm. x 300 height ≥ 200 N/mm2
- Cubic simple specimen 150 mm. side  $\geq$  250 N/mm2

## 4. PRODUCT INSTALLATION



## **1. DRILL THE HOLE**

Check that the concrete is compact and porosity insignificant. To be used in dry, wet and flooded holes. Both drilling and hammering modes must be turned on in the drilling machine. Hole diameter and length specified must be used.



### 2. BLOW AND CLEAN

It is necessary to clean the holes thoroughly free of dust and debris.

Air pump and brush must be used.



#### 3. INSTALLATION

Thread the screw until the head reaches the material to fix.