

THROUGH BOLT ANCHOR

KPT3-PRO®

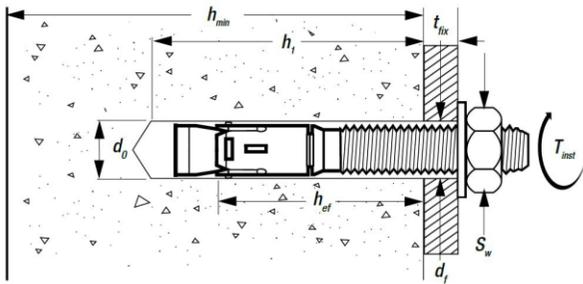
PRODUCT DESCRIPTION

The KPT3-PRO is a fully threaded, torque controlled, wedge expansion anchor which is designed for consistent performance in concrete. The anchor is easy to install and suitable for a variety of base materials. The wide range of available KPT3-PRO anchor sizes covers all common capacity

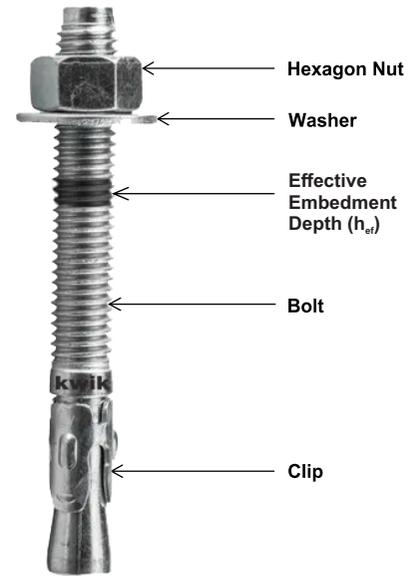
FEATURES & BENEFITS

- Consistent performance in high and low strength concrete.
- Nominal drill bit size is same as the anchor diameter.
- Anchor can be installed through standard fixture holes.

INSTALLATION DATA

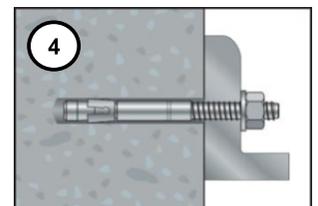
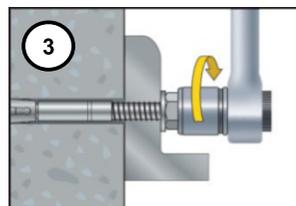
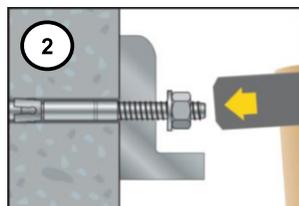
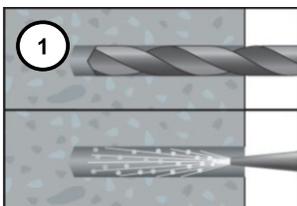


ASSEMBLY



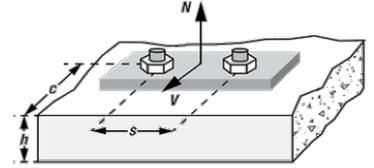
	Notation	Unit	KPT3-PRO						KPT3-SS-PRO			
			M8	M10	M12	M16	M20	M24	M8	M10	M12	M16
Anchor Diameter	d	[mm]	8	10	12	16	20	24	8	10	12	16
Nominal drill bit diameter	d ₀	[mm]	8	10	12	16	20	24	8	10	12	16
Diameter of hole clearance in fixture	d _f	[mm]	9	12	14	18	22	26	9	12	14	18
Effective embedment depth 1	h _{ef,1}	[mm]	40	60	70	80	110	125	40	60	70	80
Effective embedment depth 2	h _{ef,2}	[mm]	60	80	90	100	130	150	60	80	90	100
Drill hole depth for h _{ef,1}	h _{1,1}	[mm]	55	75	85	100	150	170	55	75	85	100
Drill hole depth for h _{ef,2}	h _{1,2}	[mm]	75	95	105	120	170	190	75	95	105	120
Minimum member thickness for h _{ef,1}	h _{min,1}	[mm]	100	120	140	160	200	250	100	120	140	160
Minimum member thickness for h _{ef,2}	h _{min,2}	[mm]	120	140	160	180	220	270	120	140	160	180
Minimum spacing	s _{min}	[mm]	50	55	60	70	95	125	50	55	60	70
Corresponding edge distance	for c ≥	[mm]	90	90	100	130	240	300	90	90	100	130
Minimum edge distance	c _{min}	[mm]	55	60	65	85	95	125	55	60	65	85
Corresponding spacing	for s ≥	[mm]	120	150	190	160	240	300	120	150	190	160
Installation torque	T _{inst}	[Nm]	25	45	70	120	200	280	25	45	70	120
Torque wrench socket size	S _w	[mm]	13	17	19	24	30	36	13	17	19	24

INSTALLATION INSTRUCTIONS



RECOMMENDED LOADS

- The Following table are meant to give the designer aid in the preliminary design process.
- No responsibility is taken for the correctness of these data.
- The given values are valid for normal concrete C20/25 an static/quasi-static loads with the exact dimensional information given.
- The values in the tables below are design level loads. This assumes a safety factor is included both on the loading and the resistance.



ANCHOR SIZE		M8		M10		M12		M16		M20		M24	
Effective anchorage depth $h_{ef,1}$ & $h_{ef,2}$	[mm]	40	60	60	80	70	90	80	100	110	130	125	150
Tensile N_{rec}													
KPT3-PRO	[KN]	5.8	7.6	9.2	10.4	12.0	15.3	17.2	22.0	28.8	35.6	34.3	41.5
KPT3-SS-PRO	[KN]	5.8	7.6	9.2	10.4	12.0	15.3	17.2	22.0	28.8	35.6	34.3	41.5
Shear V_{rec}													
KPT3-PRO	[KN]	7.0	7.0	12.6	12.6	20.3	20.3	29.0	29.0	37.2	37.2	53.4	53.4
KPT3-SS-PRO	[KN]	7.0	7.0	12.6	12.6	20.3	20.3	29.0	29.0	37.2	37.2	53.4	53.4

Recommended loads are with overall partial safety factor for action $\gamma = 1.40$. The partial safety factors for action depend on the type of loading and shall be taken from national regulations.

KPT3-PRO THROUGH BOLT PRODUCT RANGE

KPT3-PRO (Zinc Plated) PRODUCT DESCRIPTION	ARTICLE NO.	FIXTURE THK. t_{fix}	WRENCH SIZE S_w	BOX QTY.
KPT3-PRO M6x75	KPT306075	20	10	100
KPT3-PRO M8x75	KPT308075	15	13	100
KPT3-PRO M8x100	KPT308100	50	13	100
KPT3-PRO M10x75	KPT310075	5	17	50
KPT3-PRO M10x100	KPT310100	30	17	50
KPT3-PRO M10x125	KPT310125	55	17	50
KPT3-PRO M12X100	KPT312100	10	19	25
KPT3-PRO M12X125	KPT312125	35	19	25
KPT3-PRO M12X150	KPT312150	60	19	25
KPT3-PRO M12X200	KPT312200	115	19	25
KPT3-PRO M16x100	KPT316100	10	24	20
KPT3-PRO M16x125	KPT316125	15	24	20
KPT3-PRO M16x150	KPT316150	35	24	20
KPT3-PRO M16x200	KPT316200	85	24	20
KPT3-PRO M16x250	KPT316250	135	24	20
KPT3-PRO M16x300	KPT316300	185	24	20
KPT3-PRO M20x125	KPT320125	10	30	10
KPT3-PRO M20x150	KPT320150	25	30	10
KPT3-PRO M20x200	KPT320200	60	30	10
KPT3-PRO M20x250	KPT320250	110	30	10
KPT3-PRO M20x300	KPT320300	160	30	10
KPT3-PRO M24x200	KPT324200	30	36	10
KPT3-PRO M24x300	KPT324300	130	36	10