through-setting heavy duty anchors

Vorpa **VSX**

Steel anchor

concrete

products group

Suitable for
• concrete

To fix
• parapets
• steel beams
• machine tools
• industrial systems
• heavy duty metal constructions
• industrial signals

product information

Characteristics
• high performances through steel anchor with central bush and anti-rotation system
• reduced hole diameter granting a better capacity
• smooth expansion thanks to the three cuts on the expansion body
• the red collar prevents the anchor turning in the hole on installation
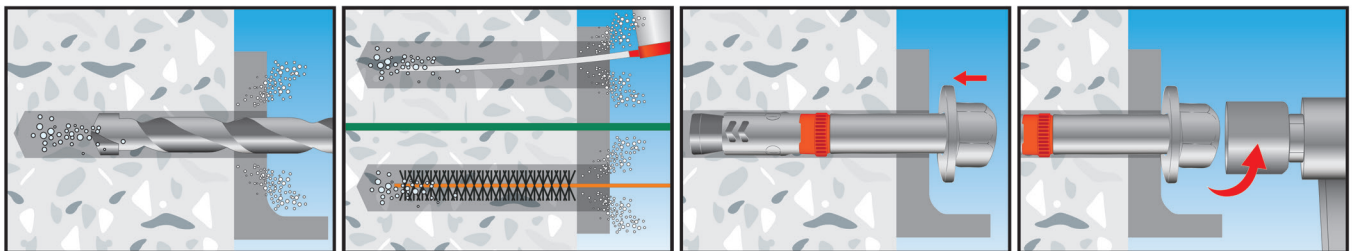
Installation
• through-setting anchor

Suggestion for use
• choose the right size of the anchor according to the load
• always check load bearing capacity values in the table
• respect the installation data
• **clean the hole before the installation**

installation sequence

Examples of applications

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VSX

Code	Description		L_t mm	d_0 mm	h_1 mm	t_{fix} max mm	T_{inst} Nm	Ch
959	VSX	8/15-70	70	8	55	15	6	13
958	VSX	8/30-85	85	8	55	30	6	13
960	VSX	10/15-85	85	10	65	15	10	17
961	VSX	10/50-120	120	10	65	50	10	17
962	VSX	12/15-100	100	12	75	15	25	19
963	VSX	12/50-135	135	12	75	50	25	19
964	VSX	14/20-115	115	14	85	20	50	22
965	VSX	14/50-145	145	14	85	50	50	22
967	VSX	16/20-130	130	16	95	20	85	24
966	VSX	16/40-150	150	16	95	40	85	24
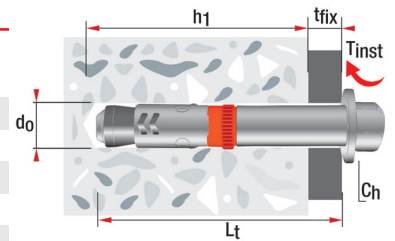
L_t = Anchor length
d_0 = Hole diameter
h_1 = Min. hole depth
t_{fix} = Fixture thickness
T_{inst} = Torque
Ch = Spanner

Examples of applications

VSX

			VSX 8/M5	VSX 10/M6	VSX 12/M8	VSX 10/M10	VSX 16/M12
Critical axial spacing	S_{cr}	mm	180	220	280	400	450
Critical edge distance	C_{cr}	mm	90	110	140	170	200
Minimum axial spacing	S_{min}	mm	90	130	170	230	270
Minimum edge distance	C_{min}	mm	50	70	90	110	140
Minimum structural thickness	h_{min}	mm	150	150	200	200	250

Permissible loads - applications in concrete C20/25							1 daN ≈ 1 kg
VSX		daN	250	350	470	600	700

- **Always respect the installation parameters**
- **In case of axial spacings or edge distances are inferior than the critical ones, it is recommended to reduce the application load**
- **The table shows the permissible loads for tension, shear and combined tension and shear loads**