

X3 Höghållfast fasadplugg

X3 fasadplugg i Ø8 och Ø10 mm med försänkt huvud kan användas för infästning i betong och murverk.

Egenskaper

Material

Plugg: nylon

Skruv: elförzinkad

Fördelar

- Hög styrka i de flesta basmaterial
- Godkänd för upp till tre olika sättdjup
- Mångsidiga användningsområden och snabb installation
- Effektiv expansion för höga laster
- Designad för fasader och tunga snickerier

Användning

Användningsområden

- Ventilerade fasader
- Stållkonstruktion
- Träsnickeri

Lämplig för

- Osprucken betong
- Mursten och hålstén
- Lättbetong
- Sten



X3 Höghållfast fasadplugg

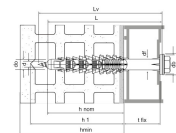
Teknisk data

Produktdimension – Senkskruv PZ

Art. nr.	Produktreferens	DB nr.	NOBB nr.	Plug [ØxL] [mm]	Skruv [ØxL] [mm]	Reducerad fästtjocklek [t _{fix}] [mm]	Standardfästets tjocklek [t _{fix}] [mm]	Ökad ⁽¹⁾ fixturens tjocklek [t _{fix}] [mm]	Bit	Qty per box	Antal per ytterförpackning
64601B0603500	X3	-	-	6x35*	4,5x40	10	5	-	PZ2	100	1000
64601B0605000	X3	-	-	6x50*	4,5x55	25	20	-	PZ2	100	1000
64601B0606000	X3	-	-	6x60*	4,5x65	35	30	-	PZ2	100	1000
64601B0607000	X3	-	-	6x70*	4,5x75	45	40	-	PZ2	100	1000
64601B0806000	X3	-	-	8x60	6x68	20	10	-	PZ3	50	500
64601B0808000	X3	-	-	8x80	6x88	40	30	-	PZ3	50	500
64601B0810000	X3	-	-	8x100	6x108	60	50	-	PZ3	50	500
64601B0812000	X3	-	-	8x120	6x128	80	70	-	PZ3	50	500
64601B1006000	X3	-	-	10x60	7x68	10	-	-	PZ4	50	500
64601B1008000	X3	-	-	10x80	7x88	30	10	-	PZ4	50	500
64601B1010000	X3	-	-	10x100	7x108	50	30	10	PZ4	50	500
64601B1012000	X3	-	-	10x120	7x128	70	50	30	PZ4	50	500
64601B1014000	X3	-	-	10x140	7x148	90	70	50	PZ4	50	300
64601B1016000	X3	-	-	10x160	7x168	110	90	70	PZ4	50	250

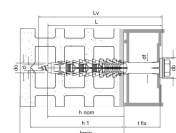
⁽¹⁾ Only for aerated concrete

* Not covered by CE certification



Art. nr.	Produktreferens	Plug [ØxL] [mm]	Skruv [ØxL] [mm]	Reducerad fästtjocklek [t _{fix}] [mm]	Standardfästets tjocklek [t _{fix}] [mm]	Ökad ⁽¹⁾ fixturens tjocklek [t _{fix}] [mm]	Ø borrfixtur [df] [mm]	Bit	Qty per box	Antal per ytterförpackning
64602B0806000	X3	8x60	6x68	20	10	-	8.5	T30	50	500
64602B0808000		8x80	6x88	40	30	-	8.5	T30	50	500
64602B0810000		8x100	6x108	60	50	-	8.5	T30	50	500
64602B0812000		8x120	6x128	80	70	-	8.5	T30	50	500
64602B1006000		10x60	7x68	10	-	-	10.5	T40	50	500
64602B1008000		10x80	7x88	30	10	-	10.5	T40	50	500
64602B1010000		10x100	7x108	50	30	10	10.5	T40	50	500
64602B1012000		10x120	7x128	70	50	30	10.5	T40	50	500
64602B1014000		10x140	7x148	90	70	50	10.5	T40	50	300
64602B1016000		10x160	7x168	110	90	70	10.5	T40	50	250
64602B1020000		10x200	7x208	150	130	110	-	T40	50	-
64602B1023000		10x230	7x238	180	160	140	-	T40	50	-
64602B1026000		10x260	7x268	210	190	170	10.5	T40	50	-
64602B1029000		10x290	7x298	240	220	200	10.5	T40	50	-

NOTE: The thickness of the plaster must be included in the fixing thickness t_{fix}

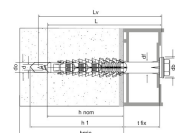


Art. nr.	Produktreferens	Plug [ØxL] [mm]	Skruv [ØxL] [mm]	Reducerad fästtjocklek [t _{fix}] [mm]	Standardfästets tjocklek [t _{fix}] [mm]	Ökad ⁽¹⁾ fixturens tjocklek [t _{fix}] [mm]	Ø borrfixtur [df] [mm]	Bit	Skiftnyckel	Inbyggd bricka [Ø]	Qty per box	Antal per ytterförpackning
64603B1006000	X3	10x60	7x68	10	-	-	10.5	T40	13	19	50	500
64603B1008000		10x80	7x88	30	10	-	10.5	T40	13	19	50	500
64603B1010000		10x100	7x108	50	30	10	10.5	T40	13	19	50	500
64603B1012000		10x120	7x128	70	50	30	10.5	T40	13	19	50	300
64603B1014000		10x140	7x148	90	70	50	10.5	T40	13	19	50	300
64603B1016000		10x160	7x168	110	90	70	10.5	T40	13	19	50	250

NOTE: The thickness of the plaster must be included in the fixing thickness t_{fix}

X3 Höghållfast fasadplugg

Produktdimension – Stor kant Ø18 plugg med sexkantskruv



Art. nr.	Produktreferens	Plug [ØxL] [mm]	Skruv [ØxL] [mm]	Reducerad fästtjocklek [t _{fix}] [mm]	Standardfästets tjocklek [t _{fix}] [mm]	Ökad ⁽¹⁾ fixturens tjocklek [t _{fix}] [mm]	Bit	Skiftnyckel	Inbyggd bricka [Ø]	Qty per box	Antal per ytterförpackning
64703B1006000	X3	10x60	7x68	10	-	-	T40	13	19	50	500
64703B1008000		10x80	7x88	30	10	-	T40	13	19	50	500
64703B1010000		10x100	7x108	50	30	10	T40	13	19	50	500
64703B1012000		10x120	7x128	70	50	30	T40	13	19	50	300
64703B1014000		10x140	7x148	90	70	50	T40	13	19	50	300
64703B1016000		10x160	7x168	110	90	70	T40	13	19	50	250
6470001006000		10x60 ▲/*/**	7x68	10	-	-	T40	13	19	100	1000
6470001008000		10x80 ▲/*/**	7x88	30	10	-	T40	13	19	100	1000
6470001010000		10x100 ▲/*/**	7x108	50	30	10	T40	13	19	100	1000
6470001012000		10x120 ▲/*/**	7x128	70	50	30	T40	13	19	100	1000
6470001014000		10x140 ▲/*/**	7x148	90	70	50	T40	13	19	100	1000
6470001016000		10x160 ▲/*/**	7x168	110	90	70	T40	13	19	100	1000

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**** Plug only**

▲ Quantity and delivery terms to be agreed

NOTE: The thickness of the plaster must be included in the fixing thickness t_{fix}

Produktdimension – D.I.Y – Försänkt PZ-skruv

Art. nr.	Produktreferens	Plug [ØxL] [mm]	Skruv [ØxL] [mm]	Reducerad fästtjocklek [t _{fix}] [mm]	Standardfästets tjocklek [t _{fix}] [mm]	Ökad ⁽¹⁾ fixturens tjocklek [t _{fix}] [mm]	Bit	Antal/blister	Blister/förp
64601B06060F2	X3	6x60*	4,5x65	35	30	-	PZ2	15	20
64601B08060F2	X3	8x60	6x68	20	10	-	PZ3	8	20
64601B08080F2	X3	8x80	6x88	40	30	-	PZ3	4	20
64601B08100F2	X3	8x100	6x108	60	50	-	PZ3	4	20
64601B08120F2	X3	8x120	6x128	80	70	-	PZ3	4	20
64601B10080F2	X3	10x80	7x88	30	10	-	PZ4	4	20
64601B10100F2	X3	10x100	7x108	50	30	10	PZ4	4	20
64601B10120F2	X3	10x120	7x128	70	50	30	PZ4	4	20

⁽¹⁾ Only for aerated concrete

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X3 Höghållfast fasadplugg

Konstruktionskapacitet – enkel förankring – inga kantavstånd

Art. nr.	Konstruktionskapacitet – enkel förankring – inga kantavstånd								
	Konstruktionskapacitet								
	Spänning - NRd				Shear - VRd				Böjmoment - MRd [Nm]
	Icke-sprickbildad betong C12/25 [kN]	Non-cracked concrete C16/20 [kN]	Autoclaved aerated concrete AAC 2 [kN]	Massiv tegelsten (BP400) [kN]	Non-cracked concrete C12/15 [kN]	Non-cracked concrete C16/20 [kN]	Autoclaved aerated concrete AAC 2 [kN]	Solid brick (BP400) [kN]	
64602B0806000	0.65	0.83	-	1.4	-	-	-	-	11.3
64602B0808000	0.65	0.83	-	1.4	-	-	-	-	11.3
64602B0810000	0.65	0.83	-	1.4	-	-	-	-	11.3
64602B0812000	0.65	0.83	-	1.4	-	-	-	-	11.3
64602B1006000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1008000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1010000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1012000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1014000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1016000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1026000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1029000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1006000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1008000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1010000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1012000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1014000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1016000	0.65	0.83	0.25	1.6	-	-	-	-	11.3
64703B1006000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64703B1008000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64703B1010000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64703B1012000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64703B1014000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64703B1016000	1.8	2.5	0.25	1.6	-	-	-	-	18.2

1. The design loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s). The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ cm, if the rebar diameter is 10mm or smaller.
 2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges ($c \leq \max [10 \text{ hef}; 60d]$) the concrete edge failure shall be checked per ETAG 001, Annex C, design method A.
 3. Concrete is considered non-cracked when the tensile stress within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3 \text{ N/mm}^2$ can be assumed (σ_L equals the tensile stress within the concrete induced by external loads, anchors loads included).
- *Not covered by ETA-11/0080

**X3
Höghållfast fasadplugg**

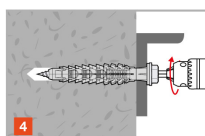
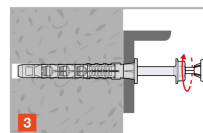
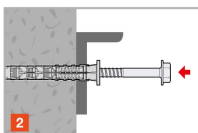
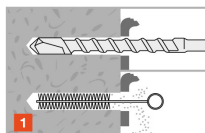
Rekommenderade kapaciteter – enkel förankring – inga kantavstånd

Art. nr.	Konstruktionskapacitet – enkel förankring – inga kantavstånd								
	Konstruktionskapacitet								
	Spänning - NRd				Shear - VRd				Böjmoment - MRd [Nm]
	Icke- sprickbildad betong C12/25 [kN]	Non-cracked concrete C16/20 [kN]	Autoclaved aerated concrete AAC 2 [kN]	Massiv tegelsten (BP400) [kN]	Non-cracked concrete C12/15 [kN]	Non-cracked concrete C16/20 [kN]	Autoclaved aerated concrete AAC 2 [kN]	Solid brick (BP400) [kN]	
64602B0806000	0.65	0.83	-	1.4	-	-	-	-	11.3
64602B0808000	0.65	0.83	-	1.4	-	-	-	-	11.3
64602B0810000	0.65	0.83	-	1.4	-	-	-	-	11.3
64602B0812000	0.65	0.83	-	1.4	-	-	-	-	11.3
64602B1006000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1008000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1010000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1012000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1014000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1016000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1026000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64602B1029000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1006000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1008000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1010000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1012000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1014000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64603B1016000	0.65	0.83	0.25	1.6	-	-	-	-	11.3
64703B1006000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64703B1008000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64703B1010000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64703B1012000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64703B1014000	1.8	2.5	0.25	1.6	-	-	-	-	18.2
64703B1016000	1.8	2.5	0.25	1.6	-	-	-	-	18.2

1. The recommended loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s) and with a partial safety factor for actions of $\gamma_F=1.4$. The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ cm, if the rebar diameter is 10 mm or smaller.
2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges ($c \leq \max [10 \text{ hef}; 60d]$) the concrete edge failure shall be checked per ETAG 001, Annex C, design method A.
3. Concrete is considered non-cracked when the tensile stress within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3 \text{ N/mm}^2$ can be assumed (σ_L equals the tensile stress within the concrete induced by external loads, anchors loads included).

X3 Höghållfast fasadplugg

Montering



X3
Höghållfast fasadplugg

Avstånd och kantavstånd

Art. nr.	Produktreferens	Plug [ØxL] [mm]	Avstånd och kantavstånd									
			Icke-sprickbildad betong C12/15				Icke-sprickbildad betong C16/20				Autoclaved &	
			Min. edge distance [cmin] [mm]	Min. spacing [smin] [mm]	Characteristic edge distance [ccr,N] [mm]	Minsta stödtjocklek [mm]	Min. kantavstånd [mm]	Min. avstånd [mm]	Characteristic edge distance [mm]	Minimum thickness of support [mm]	Min. edge distance [cmin] [mm]	Min. spacing [smin] [mm]
64602B0806000	X3	8x60	70	85	85	100	50	60	60	100	100	25
64602B0808000	X3	8x80	70	85	85	100	50	60	60	100	100	25
64602B0810000	X3	8x100	70	85	85	100	50	60	60	100	100	25
64602B0812000	X3	8x120	70	85	85	100	50	60	60	100	100	25
64602B1006000	X3	10x60	70	70	140	100	50	50	100	100	100	25
64602B1008000	X3	10x80	70	70	140	100	50	50	100	100	100	25
64602B1010000	X3	10x100	70	70	140	100	50	50	100	100	100	25
64602B1012000	X3	10x120	70	70	140	100	50	50	100	100	100	25
64602B1014000	X3	10x140	70	70	140	100	50	50	100	100	100	25
64602B1016000	X3	10x160	70	70	140	100	50	50	100	100	100	25
64602B1026000	X3	10x260	70	70	140	100	50	50	100	100	100	25
64602B1029000	X3	10x290	70	70	140	100	50	50	100	100	100	25
64603B1006000	X3	10x60	70	70	140	100	50	50	100	100	100	25
64603B1008000	X3	10x80	70	70	140	100	50	50	100	100	100	25
64603B1010000	X3	10x100	70	70	140	100	50	50	100	100	100	25
64603B1012000	X3	10x120	70	70	140	100	50	50	100	100	100	25
64603B1014000	X3	10x140	70	70	140	100	50	50	100	100	100	25
64603B1016000	X3	10x160	70	70	140	100	50	50	100	100	100	25
64703B1006000	X3	10x60	70	70	140	100	50	50	100	100	100	25
64703B1008000	X3	10x80	70	70	140	100	50	50	100	100	100	25
64703B1010000	X3	10x100	70	70	140	100	50	50	100	100	100	25
64703B1012000	X3	10x120	70	70	140	100	50	50	100	100	100	25
64703B1014000	X3	10x140	70	70	140	100	50	50	100	100	100	25
64703B1016000	X3	10x160	70	70	140	100	50	50	100	100	100	25

* Not included in the approval

X3
Höghållfast fasadplugg

Installation data

Art. nr.	Installationsdata		
	Ø drilling hole [d0] [mm]	Min. borr djup [h1] [mm]	Ø borrfixtur [df] [mm]
64602B0806000	8	55	8.5
64602B0808000	8	55	8.5
64602B0810000	8	55	8.5
64602B0812000	8	55	8.5
64602B1006000	10	65	10.5
64602B1008000	10	65	10.5
64602B1010000	10	65	10.5
64602B1012000	10	65	10.5
64602B1014000	10	65	10.5
64602B1016000	10	65	10.5
64602B1026000	10	65	10.5
64602B1029000	10	65	10.5
64603B1006000	10	65	10.5
64603B1008000	10	65	10.5
64603B1010000	10	65	10.5
64603B1012000	10	65	10.5
64603B1014000	10	65	10.5
64603B1016000	10	65	10.5
64703B1006000	10	65	10.5
64703B1008000	10	65	10.5
64703B1010000	10	65	10.5
64703B1012000	10	65	10.5
64703B1014000	10	65	10.5
64703B1016000	10	65	10.5

