

X-FS DATA SHEET

Form stop





X-FS Form stop

Product data

Product description

X-FS MX



- Facilitates quick and easy positioning of formwork panels on concrete
- Designed for extremely high productivity up to five times faster than traditional methods
- Easy to install even on rough concrete surfaces
- Stronger bond with the concrete due to large openings
- Formwork spacers remain hardly visible or fully hidden in concrete after removing formwork



Dimensions for plastic elements

Technical drawing	Designation	Diameter d	Height h
	X-FS MX	50 mm	35.2 mm
d	X-FS C 52	50 mm	35.2 mm

Dimensions for nails

Technical drawing	Designation	Shank	Head	Shank	Head
		length	length	diameter	diameter
		L _s	L _h	d _s	d _h
<u> </u>	X-C 52	52 mm	2 mm	3.5 mm	8 mm
Eh Ls					



Material specification and material properties for plastic elements

Designation	Elements	Material	Color	Others
X-FS MX	Form stop	HDPE	Light grey, RAL 7035	
X-FS C 52	Form stop	HDPE	Light grey, RAL 7035	

Material specification and material properties for steel elements

Designation	Elements	Material	Coating	Minimum	Hardness
				thickness	
X-C 52	Nail	Carbon	Zinc	5 µm	56.5 HRC
		steel			



• Info for single nails are part of the corresponding Product Data Sheets.

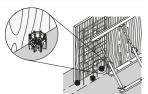
Approvals and certificates							
Authority	Approval/certificate no.	Date of issue	Country of issue				
ITB	AT-15-7696/2016	12/2016	Poland				
Rom. Ministry,	AT 016-01_420-2020	03/2020	Romania				
ICECON							



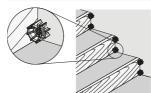
Not all information presented in this product data sheet might be subject to approval / certificate content. Please refer to approval/certificate for further information.

Applications

Formwork to concrete



Minor formwork to concrete





Base materials







Soft concrete

Medium concrete

Tough concrete

Load conditions



Static/ quasi static

Environmental conditions



Dry indoor



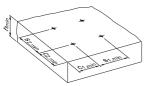
- The intended use comprises fastening in dry conditions or temporary outdoor conditions.
- For more details, please refer to following technical document: Hilti Corrosion Handbook.



X-FS Form stop – Fastening formwork

Application recommendation

Fastened material properties and fastener positioning in fastened material



	Base material	Concrete
	Base material thickness h _{min}	80 mm
	Edge distance c _{1,min} , c _{2,mi}	70 mm
	Fastener spacing s _{1,min} , s _{2,min}	100 mm
J		

Base material properties

X-FS C 52 pre-mounted



• For more details, please refer to the chapter Fastener selection guide in the Direct Fastening Technology Manual (DFTM).

Performance data

Recommended resistance under shear load

Designation	Shear load V _{rec}	V _{rec}
	Soft/medium concrete	Tough concrete
X-FS MX + X-X 52 MX	0.50 kN	0.50 kN
X-FS MX + X-C 52 MX	0.40 kN	-
X-FS MX + X-X 52 P8	0.50 kN	0.50 kN (DX 2: 0.20 kN)



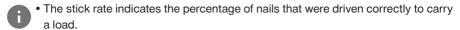
Redundancy of fastening points is required.

0.40 kN

• Minimum number of fastening points for safety relevant fastenings: ≥ 5.



| Designation | Soft/medium | Tough | concrete | concrete | X-FS MX + X-X 52 MX | 90-95 % | 85-95 % | X-FS MX + X-X 52 P8 | 90-95 % | 85-95 % | X-FS C 52 | - | - |



• Stick rate can vary from the above values depending on job site conditions.

System recommendation

• For more details, please refer to the chapter **Accessories and consumables compatibility** in the Direct Fastening Technology Manual (DFTM).

System recommendation for fastening collated nails with powder-actuated tool

Designation	Powde	r-actua	ted tool	Base r	naterial		
	DX 6 MX	DX 5 MX	DX 460 MX	Soft concrete	Medium concrete	Tough concrete	
X-FS MX + X-X 52 MX							
X-FS MX + X-C 52 MX							



System recommendation for fastening single nails with powder-actuated tools

Designation	Powde	r-actua	ted tool		Base r	naterial		
	DX 6 F8	DX 5 F8	DX 460 F8	DX 2	Soft concrete	Medium concrete	Tough concrete	
X-FS MX + X-X 52 P8								
X-FS MX + X-X 52 P8								
X-FS C 52								

■ = recommended □ = feasible

Cartridge recommendation

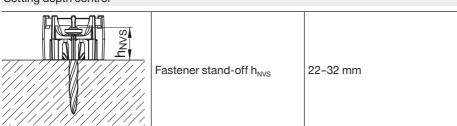
Base material	Cartridge color (tool power level)				
	Tool type:	Tool type:			
	DX 6 MX	DX 5 MX, DX 460 MX			
	DX 6 F8 DX 5 F8, DX 460 F8, DX				
	Cartridge type: 6.8/11 M	Cartridge type: 6.8/11 M			
Soft/medium concrete	titanium ■ (2-6)	yellow □, red ■			
Tough concrete	titanium ■ (6-8)	yellow <mark></mark> , red ■			



- Tool power level adjustment by setting tests on site.
- Start tool energy selection with lowest recommended tool power level.
- Correct according requirement from chapter quality assurance.

Quality assurance

Setting depth control





- Visible setting failures must be replaced with a new fastener, not in the same hole.
- These are abbreviated instructions which may vary by application.
- Always review/follow the instructions accompanying the product.