

# An Overview

**fischer**   
FIXING SYSTEMS

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# Overview of selected Mechanical Anchors

S.No.	Anchors	Size (mm)	Load Range (KN)	
			Tensile	Shear

## FAZ II



FAZ II gvz	8 to 24	4.3 - 33.5	6.9 - 49.1
FAZ II A4	8 to 16	4.3 - 33.5	6.9 - 49.1
FAZ II C	8 to 24	4.3 - 33.5	6.9 - 49.1

Min. Component Thickness (mm)	100 - 250
Min. Axial Spacing (mm)	40 - 200
Min. Edge Distance (mm)	40 - 235

## FZA (Zykon)



FZA gvz	6 to 16	6.7 - 36.9	4.6 - 35.9
FZA A4	6 to 16	5.4 - 36.9	3.2 - 25.2
FZA C	6 to 16	6.7 - 36.9	4.0 - 31.4

Min. Component Thickness (mm)	100 - 250
Min. Axial Spacing (mm)	40 - 125
Min. Edge Distance (mm)	35 - 125

## FBN II



FBN II gvz	8 to 20	2.9 - 25.8	3.9 - 38.2
FBN A4	6 to 16	3.6 - 14.6	3.6 - 22.4
FBN fvz	8 to 16	3.3 - 12.7	5.0 - 22.7

Min. Component Thickness (mm)	100 - 200
Min. Axial Spacing (mm)	35 - 140
Min. Edge Distance (mm)	35 - 120

## FH II



FH II gvz	6 to 24	6.1 - 48.5	6.1 - 97.0
FH A4	6 to 12	5.4 - 18.1	5.4 - 19.2

Min. Component Thickness (mm)	100 - 300
Min. Axial Spacing (mm)	40 - 360
Min. Edge Distance (mm)	40 - 380

\* gvz - Carbon steel, zinc plated (5µm) & passivated.

\* A4 - Stainless steel corrosion resistance class III

\* C - Stainless steel, High corrosion resistance class IV, hot dipped galvanised (40 µm)

\* All Load Values are Recommended Load Values-Material safety factor  $\gamma_M$  & safety factor for load  $\gamma_L = 1.4$  is included

\* The Load Values are Valid for Non-Cracked Concrete and for M25 Grade of Concrete.

## Salient Features

- ♦ Suitable for cracked and non-cracked concrete & in natural stone with high strength
- ♦ Minimum axial and edge spacing is possible even in cracked concrete structural elements because of optimised expansion clip.
- ♦ Double shell expansion clip ensures even distribution of load for high permissible loads.

## Approvals



- ♦ Maximum reliability through form locking mechanism through the undercut hole.
- ♦ Virtually expansion-free operation allows cost efficient fixing with very small edge distance & axial spacing.

## Approvals



- ♦ Geometrically optimised expansion sleeves allows better grip.
- ♦ Suitable for non-cracked concrete.
- ♦ Long thread allows stand-off installation and variable usable lengths.

## Approvals











- ♦ Minimum axial & edge distance with stylish fixing
- ♦ Suitable for non-cracked and cracked concrete.
- ♦ Double expansion sleeve ensures highest tension & shear loads for push through installations.

## Approvals



# Overview of selected Chemical Anchors

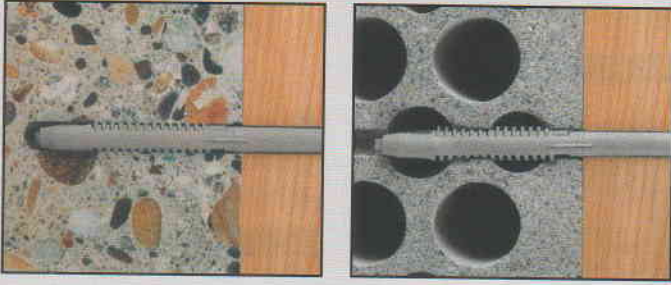
S.No.	Anchors	Size (mm)	Load Range (KN)		Salient Features
			Tensile	Shear	
<b>FIS V &amp; RGM ROD</b>					<ul style="list-style-type: none"> <li>◆ The inorganic components, cement and water guarantee optimum substrate compatibility and highest bonding strength</li> <li>◆ Organic compound, vinyl ester resin ensures shortest setting time (35 min at 30°C - 40°C)</li> <li>◆ Fire resistance up to 120 mins.</li> </ul>
	RG M gvz	6 to 30	2.7 - 102.6	2.0 - 80.1	
	RG M A4	6 to 30	2.7 - 102.6	3.2 - 89.8	
	RG M C	6 to 30	2.7 - 102.6	3.2 - 112.2	
	Min. Component Thickness (mm)		70 - 420		<b>Approvals</b> 
	Min. Axial Spacing (mm)		40 - 140		
	Min. Edge Distance (mm)		40 - 140		
<b>FHB II</b>					<ul style="list-style-type: none"> <li>◆ First chemical anchor in the world for cracked concrete</li> <li>◆ Can be used with both FIS HB injection system and FHB II-P resin capsule</li> <li>◆ Simple push through installation</li> <li>◆ Suitable for dynamic load applications</li> </ul>
	FHB gvz	8 to 24	10.4 - 53.2	7.5 - 65.3	
	FHB A4	8 to 24	10.4 - 53.2	8.3 - 71.1	
	FHB C	8 to 24	10.4 - 53.2	8.3 - 80.6	
	Min. Component Thickness (mm)		100 - 280		<b>Approvals</b> 
	Min. Axial Spacing (mm)		40 - 90		
	Min. Edge Distance (mm)		40 - 90		
<b>RM resin capsule &amp; RGM ROD</b>					<ul style="list-style-type: none"> <li>◆ Shorter curing time (10 min. at temperature &gt; 20°C)</li> <li>◆ Can be used both in low and high temperatures</li> <li>◆ Higher shear &amp; tensile loads with single fixing, fixing groups and edge influence</li> </ul>
	RGM gvz	8 to 30	8.8 - 100.5	5.3 - 128.2	
	RGM A4	8 to 30	8.8 - 100.5	5.9 - 89.9	
	RGM C	8 to 30	8.8 - 100.5	7.3 - 112.2	
	Min. Component Thickness (mm)		110 - 380		<b>Approvals</b> 
	Min. Axial Spacing (mm)		40 - 145		
	Min. Edge Distance (mm)		40 - 145		
<b>FISEM &amp; RGM ROD</b>					<ul style="list-style-type: none"> <li>◆ Very good bond strength with almost all materials</li> <li>◆ Low shrinkage</li> <li>◆ Epoxy mortar</li> <li>◆ Suitable for underwater construction</li> <li>◆ Suitable for diamond drilled holes</li> </ul>
	RG M gvz	8 to 30	5.1 - 191.3	5.3 - 128.2	
	RG M A4	8 to 30	5.1 - 149.7	5.9 - 89.8	
	RG M C	8 to 30	5.1 - 186.7	7.3 - 112.1	
	Min. Component Thickness (mm)		70 - 510		<b>Approvals</b> 
	Min. Axial Spacing (mm)		40 - 140		
	Min. Edge Distance (mm)		40 - 140		

\* All Load Values are Recommended Load Values

\* The Load Values are Valid for Non-Cracked Concrete and for M25 Grade of Concrete.

# Applications

## FUR



Fixing of:

- ◆ Facade
- ◆ Door & Window frames
- ◆ Kitchen cabinets
- ◆ General applications

## WST & BO



Fixing of:

- ◆ Wash basin
- ◆ Urinals
- ◆ Boilers

## N & NU



Fixing of:

- ◆ Baseboards & Foils
- ◆ Sheet metals
- ◆ Squared timbers
- ◆ General applications

## EA-N



Fixing of:

- ◆ Pipes
- ◆ Ventilation systems
- ◆ Sprinkler systems
- ◆ Suspended ceilings
- ◆ Hanging supports

## SXR



Fixing of:

- ◆ Suspended ceilings
- ◆ Wardrobes and cabinets
- ◆ Cable trays
- ◆ General applications

## RGM ROD with RM Capsule / FISV



Fixing of:

- ◆ Steel constructions
- ◆ Canopies
- ◆ Machines
- ◆ Facades
- ◆ High racks
- ◆ Crash barriers

# Applications

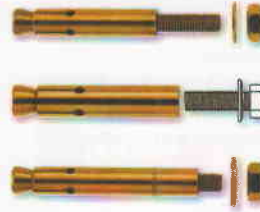
## FAZ II



Fixing of:

- ◆ Steel constructions
- ◆ Cable trays
- ◆ Machines
- ◆ Gates
- ◆ AC duct

## FZA



Fixing of:

- ◆ Steel constructions
- ◆ Machines
- ◆ Staircases
- ◆ Pipe fixings
- ◆ Truss systems

## FBN II



Fixing of:

- ◆ Railings
- ◆ Steel constructions
- ◆ Ladders
- ◆ Staircases
- ◆ Facades

## FH II



Fixing of:

- ◆ Large girder supports
- ◆ Truss system
- ◆ Machineries
- ◆ Steel constructions

## FIS V & Rebaring



Fixing of:

- ◆ Dry applications
- ◆ Medium to High Load applications
- ◆ RCC & Steel constructions

## FIS EM & Rebaring

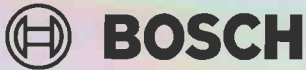


Fixing of:

- ◆ Underwater installation
- ◆ Medium to High Load applications
- ◆ RCC & Steel Constructions

# Technical Support:

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All the data in this catalogue concerning work with our fixing elements must be adapted to suit local conditions and the type of materials in use.

If no detailed performance specifications are given for certain articles and types, please contact our Technical Service Department for advice.

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