ONE-PIECE

ZINC INTERNAL USE

ICCONS® Hangerz® for Concrete (**is a deleted line, data is for INFORMATION ONLY**) are a one-piece, high tensile self tapping fastening system suitable for installation into concrete substrates. Hangerz® For Concrete are a fast, cost effective alternative to the traditional drop-in anchor halving the installation time. The use of a smaller 6mm drill bit also cuts drill bit costs and give more holes per battery life when using battery operated rotary hammer drills. Hangerz® are ideal for suspending threaded rod vertically overhead for applications such as AC ducting, hanging pipe, fire protection, and cable-tray applications. Hangerz® are available to suit M10 threaded rod diameters for vertically suspended applications and are best installed with cordless impact drivers. Extreme care is recommended when using an impact driver to ensure you don't over-tighten the anchor. An impact driver with max. torque 250 Nm is recommended to assist this. **Hangerz do not comply with AS 5216 please refer to ICCONS website for compliant solutions.**

- Great for Electrical, HVAC, Fire & Plumbing applications
- Fast installation time
- Suits M10 Rod

Part No.	Socket Part No.	Description		mm	mm	M	mm	qty	qty
HZCVM10		M10 x 40mm Rod Hanger for Concrete	**DELETED LINE**	6	40	M10	13	100	500
	HZCM10D	Hangerz® Socket Driver for Concrete M10						1	
	HZ6MD-D	Hangerz® SDS Driver Adaptor	**DELETED LINE**					1	
	HZ6MD	Hangerz® SDS Drill 6mm x 150mm	**DELETED LINE**					1	

ZINC INTERNAL USE

ICCONS® Hangerz® for Steel are a one-piece, high tensile self drilling fastening system suitable for installation into steel substrates. Hangerz® are ideal for suspending threaded rod vertically overhead for applications such as AC ducting, hanging pipe, fire protection, and cable-tray applications.
Hangerz® are available to suit M10 threaded rod diameters for vertically suspended applications and are best installed with cordless impact drivers.
Extreme care is recommended when using an impact driver to ensure you don't over-tighten the anchor. An impact driver with max. torque 250 Nm is recommended to assist this.

- Great for Electrical, HVAC, Fire & Plumbing applications
- Fast installation time
- Suits M10 Rod

Part No.	Part No.	Socket Part No.	Description	M	mm	qty	qty
HZSSM10			M10 Rod Hanger for Steel - Side Mount	M10	1.0 - 3.0	100	500
	HZSVM10		M10 Rod Hanger for Steel - Vertical Mount				
		HZSM10D	Hangerz® Socket Driver for Steel M10			1	

ZINC INTERNAL USE

ICCONS® Hangerz® for Timber are a one-piece, high tensile self drilling fastening system suitable for installation into timber substrates. Hangerz® are ideal for suspending threaded rod vertically overhead for applications such as AC ducting, hanging pipe, fire protection, and cable-tray applications in timber base material.
Hangerz® are available to suit M10 threaded rod diameters for vertically suspended applications and are best installed with cordless impact drivers.
Extreme care is recommended when using an impact driver to ensure you don't over-tighten the anchor. An impact driver with max. torque 250 Nm is recommended to assist this.

- Great for Electrical, HVAC, Fire & Plumbing applications
- Fast installation time
- Suits M10 Rod

Part No.	Part No.	Socket Part No.	Description	M	mm	qty	qty
HZTV25M10			M10 Rod Hanger for Timber - Vertical Mount	M10	25	100	500
	HZTV50M10		M10 Rod Hanger for Timber - Vertical Mount	M10	50	100	500
		HZSM10D	Hangerz® Socket Driver for Timber M10			1	

ICCONS Hangerz for concrete is a deleted line, data is for INFORMATION ONLY

ICCONS® Hangerz® - Performance in Concrete

Recommended Loads

Zinc Clear

(N_{rec}) **TENSION -** (kN)

Part No.	Drill Size (mm)	Effective Anchor Depth (mm)	Torque (Nm)	Socket Size (mm)	20MPa	32MPa	40MPa
HZCVM10	6	40	15	13	**3.0**	**3.7**	**4.2**

Note: Load capacities incorporate a safety factor of 3 (Concrete) , All loads are representative of a single anchor installed in a hammer drilled, dry hole remote from an edge. Please contact ICCONS® engineering department for specfic design applications. Extreme care is recommended when using an impact driver to ensure you don't over-tighten the anchor. An impact driver with max. torque 250 Nm is recommended to assist this. Hangerz for concrete do not comply with AS 5216 please refer to ICCONS website for compliant solutions.

Limit State Design - Multiply the above loads by 1.8 to determine the Limit State Design capacities.

ICCONS® Hangerz® - Performance in Steel

Characteristic Ultimate Loads

Zinc Clear

					TENSION		**SHEAR**	
					Characteristic Load Capacity (kN) in Steel		**Characteristic Load Capacity (kN) in Steel (without Nut)**	
Part No.	Version	Drill Dia. (mm)	Recommended Steel Thickness Range (mm)	Socket Size (inches)	1.5mm Steel Purlin	2.5mm Steel Purlin	1.5mm Steel Purlin	2.5mm Steel Purlin
HZSVM10	Vertical	Self Drilling	1.0 - 3.0	5/8	**4.8***	**9.5***		
HZSSM10	Side Mount						**4.8***	**9.5***

Note: *Limited by base material. Characteristic Ultimate Loads should be reduced by an appropriate safety factor to determine either an allowable load or design load. Please refer to design engineer responsible for the application for guidance. Extreme care is recommended when using an impact driver to ensure you don't over-tighten the anchor. An impact driver with max. torque 250 Nm is recommended to assist this.

ICCONS® Hangerz® - Performance in Timber

Characteristic Ultimate Loads

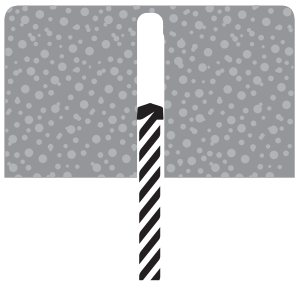
Zinc Clear

TENSION

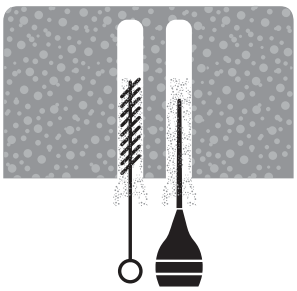
Part No.	Version	Rod Dia. (mm)	Embedment Depth (mm)	Pine (kN) MGP10	HARDWOOD (kN) F17
HZTV25M10	Vertical	M10	25	**2.8**	**3.0**
HZTV50M10			50	**6.5**	**6.5**

Note: Characteristic Ultimate Loads should be reduced by an appropriate safety factor to determine either an allowable load or design load.
Please refer to design engineer responsible for the application for guidance. Extreme care is recommended when using an impact driver to ensure you don't over-tighten the anchor. An impact driver with max. torque 250 Nm is recommended to assist this.

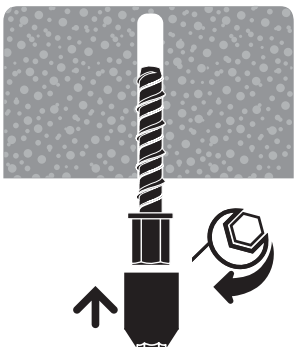
Concrete Hangerz® installation



With the correct diameter drill bit, drill a hole to the correct depth (add at least 6mm to the depth to prevent the fastener from bottoming out).



Clean dust and other material from the hole.



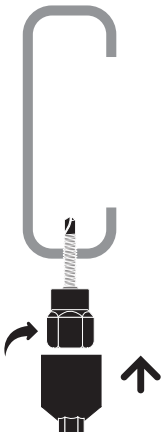
Attach the Hangerz® to the correct size socket driver and install anchor perpendicular to the base material substrate.
Extreme care is recommended when using an impact driver to ensure you don't over-tighten the anchor. An impact driver with max. torque 250 Nm is recommended to assist this. .

Be sure not to over torque the anchor.

The head of the anchor should be set flush with the base material. Install the threaded rod.

The thread should be fully installed into the Hangerz anchor.

Steel Hangerz® Vertical anchor installation



Attach the Hangerz® to the correct size socket driver and install anchor perpendicular to the base material substrate.
To avoid over tightening it is recom-mended you use the HZSM10D Driver.
Extreme care is recommended when using an impact driver to ensure you don't over-tighten the anchor. An impact driver with max. torque 250 Nm is recommended to assist this.

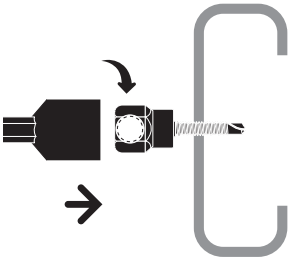
The head of the anchor should be flush with the base material.

Install the threaded rod. The threaded rod should be fully installed into the Hangerz® anchor.

For fail safe reliability, use of the supplied optional backing nut should be used.

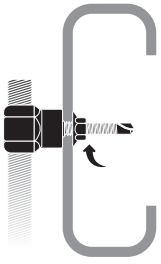
Installation complete!

Steel Hangerz® Side anchor installation



Attach the Hangerz® to the correct size socket driver and install anchor perpendicular to the base material substrate.
To avoid over tightening it is recommended you use the HZSM10D Driver.
Extreme care is recommended when using an impact driver to ensure you don't over-tighten the anchor. An impact driver with max. torque 250 Nm is recommended to assist this.

The head of the anchor should be set flush with the base material.



Install the threaded rod. The thread should fully pass through the Hangerz® anchor.

For fail safe reliability, use of the supplied optional backing nut should be used.

Installation complete!

Timber Hangerz® Vertical anchor installation

Attach the Hangerz® to the correct size socket driver and install anchor perpendicular to the base material substrate.
To avoid over tightening it is recommended you use the HZSM10D Driver.
Extreme care is recommended when using an impact driver to ensure you don't over-tighten the anchor. An impact driver with max. torque 250 Nm is recommended to assist this.

The head of the anchor should be flush with the base material.

Install the threaded rod. The threaded rod should be fully installed into the Hangerz® anchor.

Installation complete!