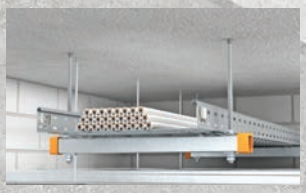
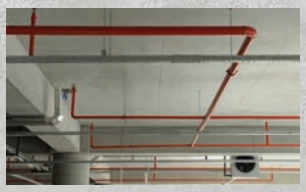
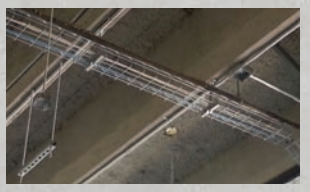
APPROVED FOR USE IN CRACKED AND UNCRACKED CONCRETE







National Code Compliant

ETA 21/0891 Approved

Cracked Concrete Approved

Fire Rated Fasteners

Australian Standards

For multiple use non-structural applications

DLXTM-S DROP-IN ANCHOR is a single piece internally threaded expansion anchor suitable for solid base material and hollow core concrete available in a carbon steel clear zinc plated finish.
The anchor is set by displacement of the pre-assembled expander cone to enable full expansion of the anchor body. The anchor must be set with the correct ICCONS® setting tools (see page 2).
The lip feature ensures the anchor will mount flush with the concrete surface for consistency. The internal thread is suitable for machined bolts or threaded rod.

ZINC INTERNAL

NEW

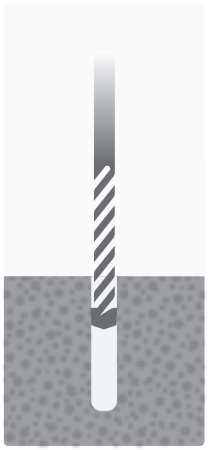
Part No.	Description	mm	mm	mm	qty	qty
DLXTM1025-S	M10 x 25mm Lip Drop-in Anchor Approved	12	28	M10	50	800

Lip Drop-in Setting Tool

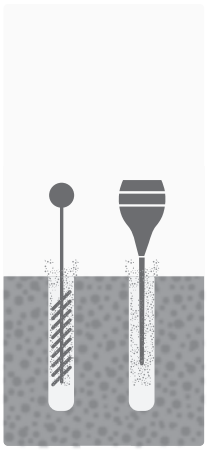
For use with Lip Drop-in Anchors.
Use of Setting Tool is necessary for the correct installation of Drop-in Anchors.

Part No.	Description	qty
DLST1025-S	M10 x 25mm Setting Tool - Soft Grip	1

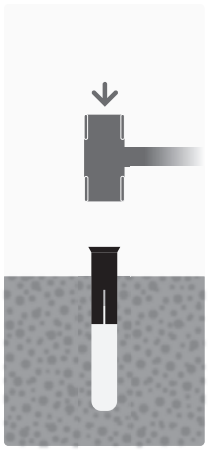
INSTALLATION



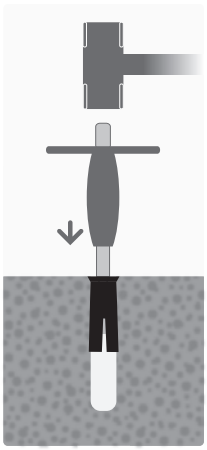
With the correct diameter drill bit, drill a hole to the correct depth.



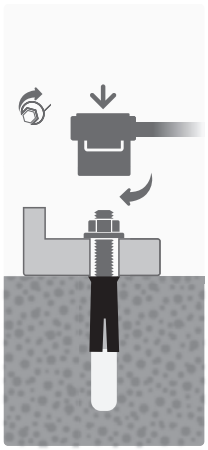
Clean dust and other material from the hole. Blow dust from the hole.



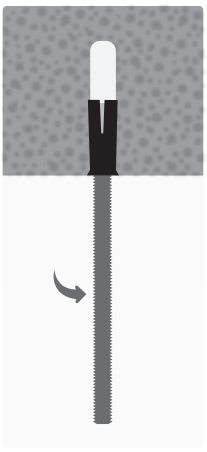
Push in Lip Drop-in by hand or by hammer blows, anchor should be flush to concrete surface.



Set the Lip Drop-in with setting tool. The Lip Drop-in is installed correctly if the setting tool pin is completely inside the anchor.



Place fixture in position and insert machined bolt and tighten until firm (do not exceed recommended torque).



For threaded rod installations wind in rod until firm, do not over tighten.

INSTALLATION DATA DLXTM-S DROP-IN ANCHOR

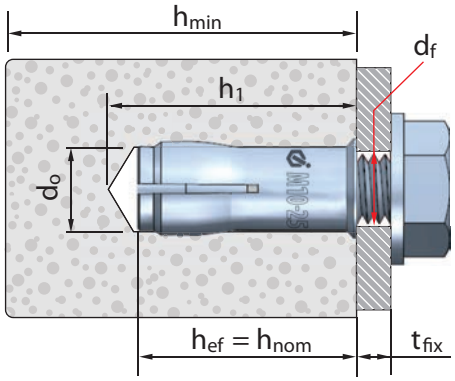
		M10 x 25mm
Nominal Drill diameter	d_o	12
Internal Thread Diameter	M	10
Depth of Drill Hole	h_1	28
Distance b/w anchor and prestressing steel	a_p	50

		M10 x 25mm
Effective anchor depth	h_{ef}	25
Maximum thread depth	Ls,max	13
Minimum thread depth	Ls,min	8
Fixture clearance hole	d_f	12
Maximum installation torque	T_{inst}	17

MATERIAL SPECIFICATIONS

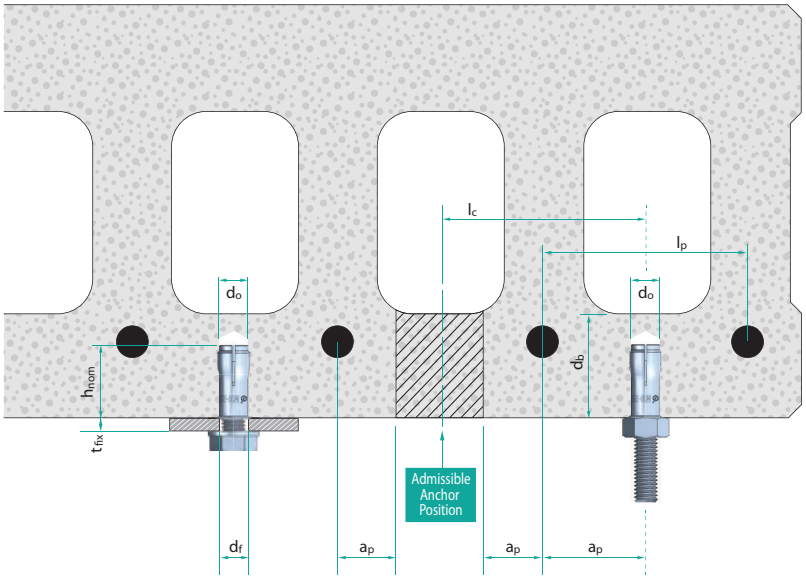
Anchor Component	Steel
Body M10	Carbon Steel, Zinc Plated ≥ 5µm ISO 4042
Expansion Cone	Carbon Steel, Zinc Plated ≥ 5µm ISO 4042
Retaining Disc	Paper or plastic

DLXTM-S – For use in concrete C20/25 to C50/60



DLXTM-S Drop-in		
h_{min}	=	thickness of member
h_1	=	depth of drilled hole
h_{ef}	=	effective anchorage depth
t_{fix}	=	fixture thickness
L_s	=	length of thread inside the anchor
T_{inst}	=	max. installation torque
d_f	=	fixture clearance hole diameter

DLXTM-S – For use in precast prestressed hollow core slabs With flange thickness ≥ 35mm and concrete C30/37 to C50/60



DLXTM-S Drop-in		
d_o	=	nominal diameter of drill bit
$h_{ef} = h_{nom}$	=	effective anchorage depth
L_s	=	length of thread inside the anchor
T_{inst}	=	max. installation torque
a_p	=	distance between anchor and prestressing steel ≥ 50mm
d_b	=	bottom flange thickness
l_c	=	core distance ≥ 100mm
l_p	=	prestressing steel spacing ≥ 100mm
C_{min}	=	edge distance
d_f	=	fixture clearance hole diameter

Minimum thickness of concrete member, spacing and edge distance

DLXTM-S Drop-in anchor			Size M10-25
Minimum thickness of member	h_{min}	[mm]	80
Minimum spacing	s_{min}	[mm]	75
Minimum edge distance	c_{min}	[mm]	60

Minimum thickness, spacing and edge distance of precast prestressed hollow core slabs

DLXTM-S Drop-in anchor			Size M10-25
Minimum thickness of member	h_{min}	[mm]	35
Minimum spacing	s_{min}	[mm]	200
Minimum edge distance	c_{min}	[mm]	150

Design Data in accordance with AS 5216:2021

DLXTM-S Drop-in anchor - Any load direction				Size M10-25
Characteristic resistance in concrete C20/25 - C50/60	F^{o}_{Rk}	[kN]	≥Rod 4.6	4.0
Installation safety factor	γ_{inst}	[-]		1.2
Characteristic spacing	S_{cr}	[mm]		120
Characteristic edge distance	C_{cr}	[mm]		60
Design resistance in concrete C20/25 - C50/60	F^{o}_{Rd}	[kN]	≥Rod 4.6	2.2[1]

[1] Load in any direction

Design Data for use in precast prestressed hollow core slabs with bottom flange thickness ≥ 35mm

DLXTM-S Drop-in anchor - Any load direction				Size M10-25
Characteristic resistance in concrete C30/37 - C50/60	F_{Rk}	[kN]		6.0
Installation safety factor	γ_{inst}	[-]		1.4
Spacing	$S_{cr} = S_{min}$	[mm]		200
Edge distance	$C_{cr} = C_{min}$	[mm]		150
Design resistance in concrete C30/37 - C50/60	F_{Rd}	[kN]	≥Rod 4.6	2.9[1]

[1] Load in any direction

Characteristic values of resistance under fire exposure in any direction for use in concrete C20/25 to C50/60 (NOT for use in prestressed hollow slabs)

DLXTM-S Drop-in anchor - Fire resistance class					Size M10-25
R30	Characteristic resistance	$F_{Rk,fi}$	[kN]	≥ Steel 4.6	0.54
R60	Characteristic resistance	$F_{Rk,fi}$	[kN]	≥ Steel 4.6	0.54
R90	Characteristic resistance	$F_{Rk,fi}$	[kN]	≥ Steel 4.6	0.54
R120	Characteristic resistance	$F_{Rk,fi}$	[kN]	≥ Steel 4.6	0.43

DLXTM-S Drop-in anchor - Spacing and edge distance under fire exposure					Size M10-25
R30 – R120	Spacing distance	$S_{cr,fi}$	mm		100
R30 – R120	Edge distance	$C_{cr,fi}$	mm		50

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