

Product Information



DESCRIPTION

The Lipped Wedge Anchor provides an easy to install fixing.

Allows for bolts and studs to be installed and removed without effecting the anchor.

Available in zinc plated steel.

Install with manual setting tool or mechanical setting tool for use with hammer action drilling machines.

SUITABLE FOR USE IN:

Concrete
Stone.

FEATURES

1. Internally threaded to take stud or bolt.
2. Easy to install flush to the surface.
3. Ideal for setting in cavity ceilings.

TYPICAL APPLICATIONS

- Fixing mechanical services
- Cable trays
- Platforms
- Drain covers
- Suspended ceilings.

R-DCL WEDGE ANCHOR - Zinc plated

ETA PENDING 2007

THREAD SIZE (d)	ANCHOR LENGTH (mm) (l)	THREAD LENGTH (mm) (l _G)	HOLE DIAMETER (mm) (d _o)	HOLE DEPTH (mm) (h _o)	MAXIMUM RECOMMENDED TORQUE (Nm) (T _{inst})	PRODUCT CODE	NEW CODE
M6	25	11	8	27	4.5	77-908	LWA-06L
M8	30	13	10	32	11	77-920	LWA-08L
M10	40	15	12	42	22	77-932	LWA-10L
M12	50	20	15	52	38	77-941	LWA-12L
M16	65	25	20	67	95	77-950	LWA-16L

Manual Setting Tool



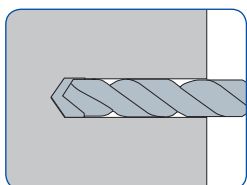
THREAD SIZE (d)	NEW CODE	PRODUCT CODE
M6	77-208	WAN-ST-06-W1
M8	77-220	WAN-ST-08-W1
M10	77-232	WAN-ST-10-W1
M12	77-241	WAN-ST-12-W1
M16	77-250	WAN-ST-16-W1

Mechanical Setting Tool

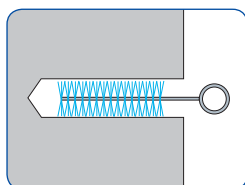


THREAD SIZE (d)	GRIP TYPE	NEW CODE	PRODUCT CODE
M6	SDS-plus	77-209	WAN-SDS-06-W1
M8	SDS-plus	77-221	WAN-SDS-08-W1
M10	SDS-plus	77-233	WAN-SDS-10-W1
M12	SDS-plus	77-242	WAN-SDS-12-W1
M16	SDS-max	77-251	WAN-SDS-16-W1

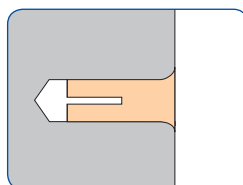
Installation



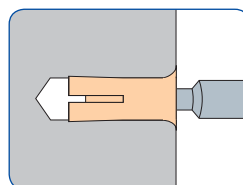
1. Drill a hole of required diameter and depth.



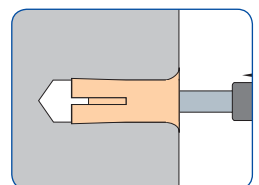
2. Remove debris and thoroughly clean hole with brush and pump.



3. Insert wedge anchor, slotted end first.



4. Use the setting tool to drive the internal wedge into the anchor.



5. Alternatively use mechanical setting tool with appropriate drilling machine.

Specification Data

R-DCL WEDGE ANCHOR Performance Data

SIZE	CONCRETE, $f_{ck,cube} = 30N/mm^2$ (C20/25)								
	CHARACTERISTIC RESISTANCE (kN)		DESIGN RESISTANCE (Factored) (kN)		RECOMMENDED LOAD (Unfactored) (kN)		CHARACTERISTIC EDGE DISTANCE (mm) *		CHARACTERISTIC SPACING (mm)
	TENSION (N_{Rk})	SHEAR (V_{Rk})	TENSION (N_{Rd})	SHEAR (V_{Rd})	TENSION (N_{rec})	SHEAR (V_{rec})	TENSION ($C_{cr,N}$)	SHEAR ($C_{cr,V}$)	TENSION & SHEAR ($S_{cr,N}$) ($S_{cr,V}$)
M6	7.9	4.3	3.7	2.4	3.1	2.0	80	80	90
M8	9.5	7.5	4.4	4.1	3.7	3.4	90	90	110
M10	15.9	11.8	7.4	6.6	6.2	5.5	120	120	140
M12	20.3	17.2	9.4	9.6	7.8	8.0	160	160	170
M16	31.8	32.0	14.7	17.8	12.3	14.8	220	220	250

Reduction Factors - Edge and Spacing Distances for Lipped Wedge Anchor.

The full characteristic edge and spacing distances shown in the table above are the minimum allowable for the quoted DESIGN RESISTANCE or RECOMMENDED LOAD, depending on your design method.

Where these dimensions are not achievable,

the appropriate reduction factor/s from the tables below must be applied to the DESIGN RESISTANCE or RECOMMENDED LOAD.

Choose the required bolt diameter across the top of the appropriate table and read down the left hand column until actual edge or spacing distance is found.

Read off the reduction factor where the two

lines intersect (interpolate as required). Multiply this factor by the DESIGN RESISTANCE or RECOMMENDED LOAD quoted in the table.

On the occasion that multiple close edge and/or spacing distances occur, the appropriate reduction factors must be applied.

Minimum Edge Distance (Concrete Only)

EDGE (mm)	TENSILE: EDGE REDUCTION FACTORS					EDGE (mm)	SHEAR: EDGE REDUCTION FACTORS				
	M6	M8	M10	M12	M16		M6	M8	M10	M12	M16
70						70					
80	1.00					80	1.00				
90		1.00				90		1.00			
100						100					
120			1.00			120			1.00		
140						140					
160				1.00		160				1.00	
190						190					
220					1.00	220					1.00
250						250					

Spacing (Concrete Only)

SPACING (mm)	TENSILE & SHEAR REDUCTION FACTORS				
	M6	M8	M10	M12	M16
50	0.80				
60	0.85	0.80			
70	0.90	0.84	0.80		
90	1.00	0.92	0.86	0.80	
110		1.00	0.91	0.85	0.80
140			1.00	0.93	0.84
170				1.00	0.88
210					0.94
250					1.00
300					

* It is recommended that Wedge anchors are not installed below the "characteristic" edge distances quoted in the table above.