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LWA

Lite Wedge Anchor

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Diameters	Applications / Use		Advantages		Coating
M6 M8 M10 M12 M12 M16 M20 M24	Urban Furniture Shelves Fences General Fixing		Wide range of sizes and lenghts Full thread Fast installation of the anchor Reliable and cheap solution		Zinc plated
Non-Cracked Concrete	Natural dense stone	Solid brick	Regular depth	Direct load	Through Installation

Characteristics

- Easy Installation
- For use in non-cracked concrete
- For medium-high loads
- Previous installation, or at the drilling of the material to be fixed
- For static or almost static loads
- Wide range of lengths and diameters available installation flexibility

Approvals

- Anchoring sheets
- Metallic structures
- Bridges
- Traction concrete
- Urban Furniture
- Protection fences
- Overhead power cabling
- Elevators
- Pipe supports
- Racking systems

Technical data sheet

Effective anchorage depth									
		M8		M10		M12		M16	
Effective anchorage depth range	hef mm	30	40	40	50	50	65	65	80
Characteristic Resistance									
Tension N _{Rk}	Kn	8.1	11.8	11.7	13.7	14.1	19.6	26.1	35.7
Shear V _{Rk}	Kn	7.0	7.2	10.8	12.2	15.2	19.2	36.0	36.0
Design Resistance									
Tension N _{Rd}	Kn	4.4	6.5	7.7	9.3	9.3	12.9	14.3	19.7
Shear V _{Rd}	Kn	4.6	5.7	7.2	9.7	10.1	15.3	28.8	28.8
Recommended Loads									
Tension N _{Rec}	Kn	3.1	4.6	5.4	6.4	6.5	9.1	10.1	13.9
Shear V _{Rec}	Kn	3.4	4.1	5.1	6.9	7.2	10.9	20.5	20.5

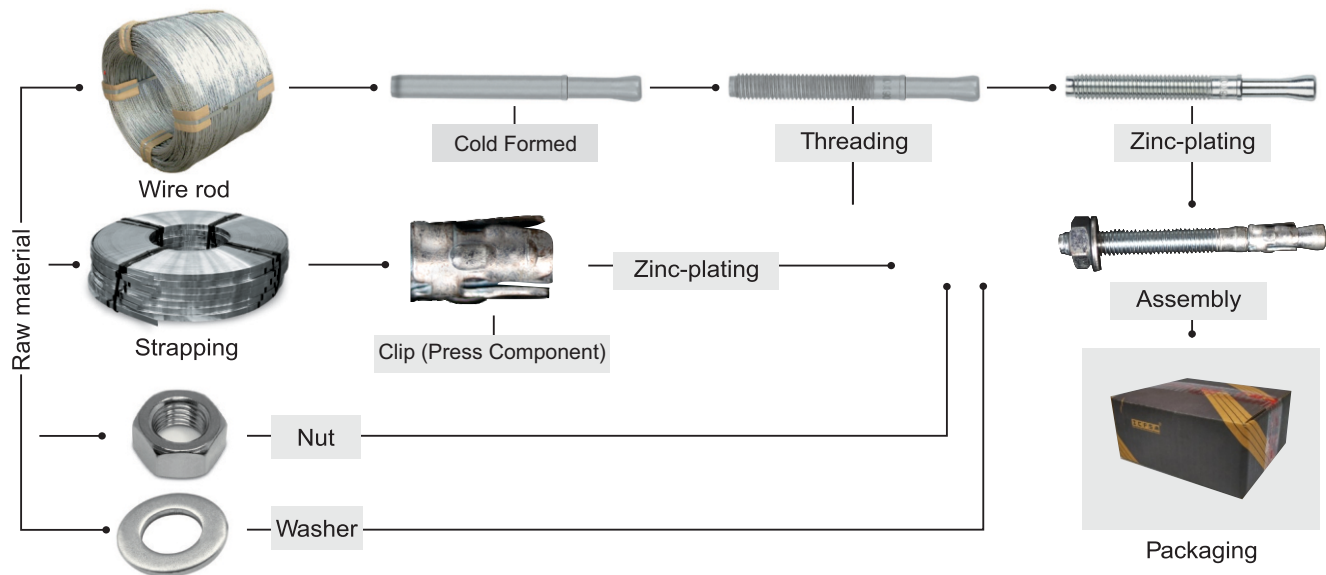
Code No.	Size	Thread	Maximal fast Thickness (mm)	Anchor Length (mm)	Drill Hole Φ mm	Min Hole Depth mm	Anchor Weight KGS/100Pcs	Packing Box/Ctn
LWA-06-40	M6X40	M6	3	40	6	35	9.92	200/2000
LWA-06-70	M6X70	M6	30	70	6	50	15.06	150/1500
LWA-08-60	M8X60	M8	20	60	8	55	24.5	200/1000
LWA-08-70	M8X70	M8	30	70	8	55	27.67	150/750
LWA-08-80	M8X80	M8	40	80	8	55	30.24	150/750
LWA-08-90	M8X90	M8	50	90	8	55	33.02	120/600
LWA-08-100	M8X100	M8	60	100	8	55	36.6	120/600
LWA-10-80	M10X80	M10	20	80	10	70	51.72	80/400
LWA-10-95	M10X95	M10	35	95	10	70	59.44	80/400
LWA-10-120	M10X120	M10	60	120	10	70	70.6	50/250
LWA-12-70	M12X70	M12	4	70	12	65	69.86	60/300
LWA-12-80	M12X80	M12	10	80	12	75	77.28	50/250
LWA-12-90	M12X90	M12	20	90	12	80	83.82	50/250
LWA-12-100	M12X100	M12	30	100	12	80	90.78	50/250
LWA-12-110	M12X110	M12	40	110	12	80	97.3	50/250
LWA-12-120	M12X120	M12	50	120	12	80	104.14	40/200
LWA-12-130	M12X130	M12	60	130	12	80	110.93	40/200
LWA-12-140	M12X140	M12	70	140	12	80	116.68	40/200
LWA-16-100	M16X100	M16	5	100	16	95	166.6	30/150
LWA-16-140	M16X140	M16	40	140	16	110	221.35	20/100
LWA-16-145	M16X145	M16	45	145	16	110	225.7	20/100
LWA-16-150	M16X150	M16	50	150	16	110	231.62	20/100
LWA-20-120	M20X120	M20	10	120	20	115	306.05	15/75
LWA-20-130	M20X130	M20	20	130	20	120	339	15/75
LWA-24-160	M24X160	M24	40	160	24	120	586.9	8/40.
LWA-24-300	M24X300	M24	150	300	24	120	1231.8	5/20.

Lite Wedge Anchor Zinc Plated/Stainless Steel

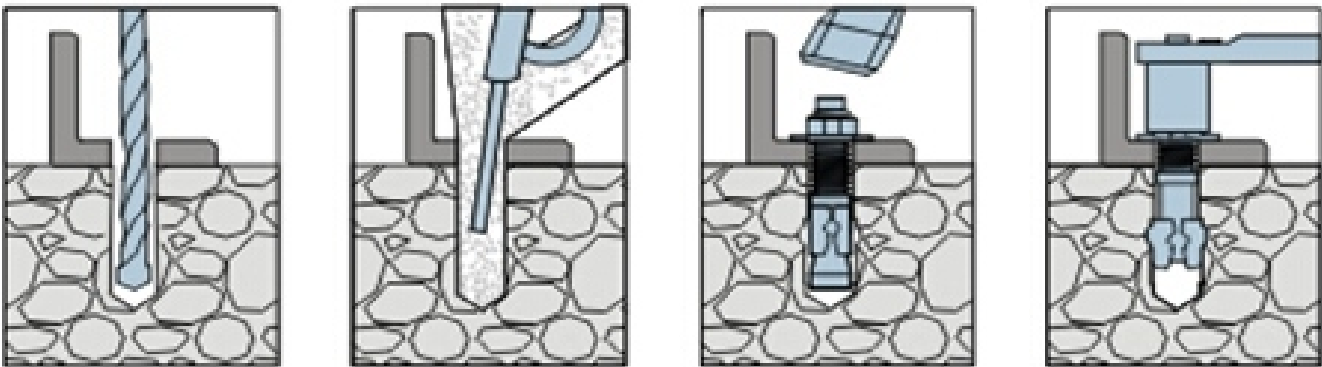
Materials :

Item	Designation	Material for Lite Wedge Anchor
1	Anchor Body	Carbon steel wire rod, galvanised 5µm, ISO 4042 A2 SS304, A4 SS316, Cold forged
2	Washer	DIN 125 or DIN 9021 galvanised 5µm ISO 4042 A2 SS304, A4 SS316
3	Nut	DIN 934 galvanised 5µm ISO 4042, A2 SS304 A4 SS316, Class 6
4	Expansion Clip	Carbon steel grip, galvanised 5µm, ISO 4042 A2 SS304, A4 SS316

Manufacturing Process



INSTALLATION PROCEDURE



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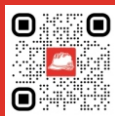
Type	Art. No.	Nominal Drill Φ	Min. drill depth with push through installation (mm)	Anchorage Depth mm	Anchorage Length mm	Max. Usable mm	Thread Length mm	Thread	Wide Across nut mm	Washer outer dia X thickness
LWA	LWA0875	8	65	60	75	5	35.5	8	8	16x1.6
LWA	LWA0890	8	65	60	90	20	50.5	8	8	16x1.6
LWA	LWA08120	8	65	60	120	50	80.5	8	8	16x1.6
LWA	LWA1075	10	55	52	75	8	38	10	10	20x2
LWA	LWA1090	10	70	67	90	10	46	10	10	20x2
LWA	LWA10100	10	70	67	100	20	56	10	10	20x2
LWA	LWA10150	10	170	70	150	70	106	10	10	20x2
LWA	LWA12100	12	75	70	100	23	45	12	12	24x2.5
LWA	LWA12120	12	85	77	120	28	65	12	12	24x2.5
LWA	LWA12150	12	85	77	150	58	95	12	12	24x2.5
LWA	LWA12250	12	85	77	250	158	145	12	12	24x2.5
LWA	LWA16100	16	75	69	100	15	32	16	16	30x3
LWA	LWA16145	16	110	104	145	23	77	16	16	30x3
LWA	LWA16200	16	110	104	200	78	132	16	16	30x3
LWA	LWA20170	20	175	125	170	27	99	20	20	37x3
LWA	LWA20200	20	175	125	220	77	149	20	20	37x3

Mechanical Properties

Anchor Size			M8	M10	M12	M16
Nominal Tensile strength	f_{uk}	[N/mm ²]	550	627	627	627
Yield strength	f_{yk}	[N/mm ²]	435	501.6	501.6	501.6
Stressed cross-section, thread	A_s	[mm ²]	36.6	58	84.3	157
Stressed cross-section neck	$A_{s, neck}$	[mm ²]	26.9	39.6	63.6	105.7
Moment Of resistance W	W	[mm ³]	31.2	62.3	109.2	277.5
Characteristic bending resistance for rod or bolt with 5.8 steel grade	$M^{0Rk,s}$	[Nm]	17.16	39.06	68.47	173.99

As per ISO 898 yield strength should be minimum than 300N/mm² and tensile strength minimum 520 N/mm²

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