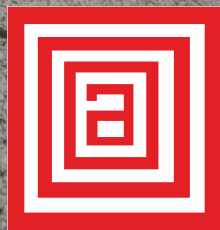


DEWALT®

IN CONJUNCTION WITH



CONCRETE BLOCK FIXING GUIDE

www.DEWALT.com

GUARANTEED TOUGH.®

ANCHOR AND FASTENING EXPERTISE

DeWALT is a recognised global leader in designing and manufacturing solutions for the construction industry with extensive expertise in mechanical and adhesive anchors, light-duty fastening and direct fastening systems.

TESTED TO EXTREMES

The products in this catalogue have been through the most rigorous development and testing programmes and provide innovative solutions with the reassurance of high performance and full compliance with relevant building codes backed by comprehensive technical documentation and design software. As a result, you can be sure of each and every fastener. DeWALT Anchors and Fastening Systems - the first name for construction fastening.

In conjunction with THOMAS ARMSTRONG, one of the leading block manufacturers in the UK, this guide has been produced in order to promote best fixing practices when installing into block systems and to provide an outline of performance data, when installing into a variety of substrates.

This document is intended as a guide only. For detailed, project specific installation advice, users should always refer to THOMAS ARMSTRONG for guidance.

DeWALT technicians conducted thorough testing of the fixings outlined in this guide to THOMAS ARMSTRONG Blocks. All fixings were tested into THOMAS ARMSTRONG blocks using calibrated Hydrajaws test meters. Ultimate loads were recorded and a safety factor applied to produce the recommended loads in this guide.



MECHANICAL & RESIN FIXING SYSTEMS APPROVED FOR USE IN THOMAS ARMSTRONG AIRCRETE BLOCKS

In conjunction with Thomas Armstrong, DeWALT have conducted product performance tests at their premises in Hoveringham.

A number of DeWALT fixings were tested in a range of THOMAS ARMSTRONG blocks. All fixings have been tested using a calibrated Hydrajaws test meter. Tests were conducted in order to establish the recommended loadings on DeWALT fixings when installed into these substrates.

Due to the structural properties of lightweight block, care should be taken to select fixings that have appropriate performance whilst retaining the structural integrity of the block.

The Following Fixings adhere to these requirements and have been tailored to suit the needs of a range of specialised trades including:

- Mechanical
- Electrical
- Plumbing
- Drywall & Partitioning
- Sanitary

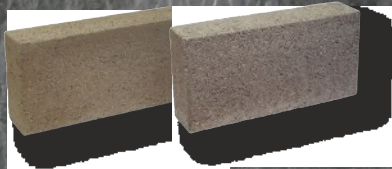


BLOCK	Anchor	Anchor diameter	Anchor length	Embedment	Drill diameter	*Recommended Tensile load
AIRTEC 2.9XL	AIRCRETE M6/M8	M6 - M8	60mm	60mm	12mm	0.5kN
	AIRCRETE M8/M12	M8 - M12	70mm	70mm	14mm	0.6kN
AIRTEC STANDARD 3.6N	AIRCRETE M6/M8	M6 - M8	60mm	60mm	12mm	0.5kN
	AIRCRETE M8/M12	M8 - M12	70mm	70mm	14mm	0.6kN
AIRTEC SEVEN 7.3N	Tapper Pro	6.3mm	57-127mm	min 50mm	5mm	0.6kN
	Blue Tip	M6	60-150mm	60mm	6mm	0.9kN
	AC100	M8 with 13mm plastic sleeve	110mm	Through block	14mm	2.3kN



BLOCK	Anchor type	Anchor diameter	Anchor length	Embedment	Drill diameter	*Recommended Tensile load
ULTRALITE 3.6N	AC100	M8 with 13mm plastic sleeve	110mm	Through block	14mm	2.3kN
	Aircrete	M10	70mm	70mm	14mm	0.9kN
	Blue Tip	M6	60 - 150mm	60mm	6mm	1.3kN
ULTRALITE 7.3N	Tapper Pro	6.3mm	57-127mm	min 50mm	5mm	0.8kN
	Blue Tip	M6	60-150mm	60mm	6mm	1.4kN
	Vertigo M8/M10	M8 OR M10	Total 58mm	39mm	6.5mm	1.3kN
	AC100	M8 with 13mm plastic sleeve	110mm	Through block	14mm	2.1kN

MECHANICAL & RESIN FIXING SYSTEMS APPROVED FOR USE ON THOMAS ARMSTRONG BLOCKS



INSULITE



BLOCK	Anchor type	Anchor diameter	Anchor length	Embedment	Drill diameter	*Recommended Tensile load
INSULITE 7.3N	AC100 Chemical	M8 with 13mm plastic sleeve	110mm	Through block	14mm	2.1kN
	M8 with sleeve					
	Bluetip	M6	60-150mm	60mm	6mm	1.4kN
	Tapper Pro	6.3mm	57-127mm	min 50mm	5mm	1.0kN
	Vertigo	M8 OR M10	Total 58mm	39mm	6.5mm	0.6kN
INSULITE 10.4N	Snake	Internal M8 or M10	39mm	39mm	Purpose Drillbit	0.7kN
	AC100 Chemical	M8 with 13mm plastic sleeve	110mm	Through block	14mm	5.0kN
	M8 with sleeve					
	Bluetip M6 x 75	M6	60-150mm	60mm	6mm	2.5kN
	Tapper Pro 6.3 x 57	6.3mm	57-127mm	min 50mm	5mm	1.8kN
INSULITE PREMIER 10.4N	Vertigo M8/M10	M8 OR M10	Total 58mm	39mm	6.5mm	1.4kN
	Snake M8/M10	Internal M8 or M10	39mm	39mm	Purpose Drillbit	1.3kN
	Bluetip M6 x 75	M6	60-150mm	60mm	6mm	1.0kN
	Tapper Pro 6.3 x 57	6.3mm	57-127mm	min 50mm	5mm	0.4kN



DENSE CONCRETE



BLOCK	Anchor type	Anchor diameter	Anchor length	Embedment	Drill diameter	*Recommended Tensile load
STANDARD DENSE 7.3N	AC100 Chemical	M8 with 13mm plastic sleeve	110mm	Through block	14mm	3kN
	M8 with sleeve					
	Bluetip M6 x 75	M6	60-150mm	60mm	6mm	2kN
	Tapper Pro 6.3 x 57	6.3mm	57-127mm	min 50mm	5mm	1.5kN
	Vertigo M8/M10	M8 OR M10	Total 58mm	39mm	6.5mm	0.9kN
STANDARD DENSE 10.4N	Snake M8/M10	Internal M8 or M10	39mm	39mm	Purpose Drillbit	1.26kN
	AC100 Chemical	M8 with 13mm plastic sleeve	110mm	Through block	14mm	2.3kN
	M8 with sleeve					
	Bluetip M6 x 75	M6	60-150mm	60mm	6mm	2.6kN
	Tapper Pro 6.3 x 57	6.3mm	57-127mm	min 50mm	5mm	2.3kN
DENSE FAIRTEX 10.4N	Vertigo M8/M10	M8 OR M10	Total 58mm	39mm	6.5mm	1kN
	Snake M8/M10	Internal M8 or M10	39mm	39mm	Purpose Drillbit	1.6kN
	AC100 Chemical	M8 with 13mm plastic sleeve	110mm	Through block	14mm	2.3kN
	M8 with sleeve					
	Bluetip M6 x 75	M6	60-150mm	60mm	6mm	2.6kN
DENSE FAIRTEX 10.4N	Tapper Pro 6.3 x 57	6.3mm	57-127mm	min 50mm	5mm	2.3kN
	Vertigo M8/M10	M8 OR M10	Total 58mm	39mm	6.5mm	1kN
	Snake M8/M10	Internal M8 or M10	39mm	39mm	Purpose Drillbit	1.6kN

*1kN = 100kg



Thomas Armstrong

Founded in 1830 in Cumbria as a timber and saw mill operation we have grown and expanded our operations into quarrying, construction and the manufacturing of concrete blocks.

We produce a comprehensive range of masonry building and paving blocks compliant to all of the latest technical and environmental standards for use in foundation walls, internal walls, acoustic separating walls, thermally insulating walls and permeable paving solutions for driveways.

We are continually striving to further enhance the sustainability credentials of our operations and products through the increased use of recycled material in our blocks and with a commitment to minimise our impact on the environment by reducing energy use throughout our operations and continue to produce high-quality products for the low carbon homes of the future.

Our group of 8 concrete block manufacturing plants are located across the North of England offering a flexible and comprehensive supply network. Our block manufacturing group consists of several very well established and respected companies:



Thomas Armstrong (Concrete Blocks) Ltd
Whinfield Works
Rowlands Gill
Newcastle Upon Tyne
Tyne & Wear
NE39 1EH

Ref DeWalt fixings installed into THOMAS ARMSTRONG BLOCKS

Dear Sirs

I can confirm that the products described in the DeWalt fixings and anchors brochures as detailed in the fixing guide were tested by DeWalt technicians at the Thomas Armstrong offices in Leeds. The tests witnessed were carried out in a thorough and professional method and as a result we can recommend the use of DeWalt **non expanding fixings** in Thomas Armstrong blocks.

Yours faithfully

John Mason
Technical Manager

The DeWALT logo is displayed in white, bold, sans-serif capital letters on a black rectangular background.

On-site support

DeWALT technical and sales teams are present on the jobsite for product demonstrations, installation training and technical support.

Also our structural engineers are able to provide precise calculations using our ETAG compliant DeWALT Design Assist calculation software.

On site testing available on request.

Operator training

DeWALT provide operator training both on site and in construction offices on the safe use and maintenance of direct fastening systems as well as anchor installation training to BS 8539.

DeWALT are actively working with The UK Construction Fixings Association to promote and support anchor approval and installation guidelines.

High tech testing laboratory

DeWALT employs a large team of senior anchor design and test engineers at our state-of-the-art laboratories and their expertise together with the massive engineering resources of Stanley Black & Decker ensures that we provide innovative, high-quality anchoring solutions.

In-house QC inspection and testing procedures by our experienced technical personnel ensure that only the highest quality fasteners enter the market place.

For all fixing, training and technical enquiries please contact our dedicated fixing Helpdesk.

Contact DeWALT

210 Bath Road

Slough

SL1 3YD

Technical helpline 0800 917 0906

email: fixings@dewalt.com

www.dewalt.co.uk/fastenings

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CONSTRUCTION FIXINGS
association