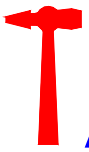


TACKBURN LIMITED

Manufacturers and suppliers of Thin Joint Building Products.

Tel/Fax 01527 68559
Mobile 0786 698 4313
Web Site www.tackburn.co.uk

TACKBURN LIMITED

Manufacturers of Loden Anchor Fixings, TACK-tie wall ties
and suppliers of ancillary products for Thin Joint Mortar Systems.

22 Pebworth Close, Church Hill North,
Redditch, Worcs, B98 9JX. England

Sales/Fax +44 (0)1527 68559
Mobile +44 (0)786 698 4313

WHO ARE WE

Tackburn Limited is a well-established company manufacturing and supplying ancillary items for the Thin Joint System.

Our aim is to hold all standard items, required for the system, in stock for next day delivery. These range from wall ties to bed-joint reinforcement and our customers include major national builders to self-build projects.

We offer a friendly, personal service and no order is too big or too small.

WHAT IS THE THIN JOINT MORTAR SYSTEM?

The Thin Joint System has been used in Continental Europe for the last thirty years and is now being used regularly in this country. The system utilises a pre-mixed, cement based mortar, which only requires the correct amount of water added to become an easily applied mortar. Instead of using the traditional sand and cement mixer a hand held paddle mixer is used which ensures that the correct consistency is achieved.

As the system name implies, with the use of this type of mortar and the production of close tolerance aircrete blocks a Thin mortar Joint is achievable. Traditionally a sand / cement joint is 10/12mm but this mortar allows the joint to be reduced to 3mm or less. Another advantage is the setting time. Using this type of mortar the joint is normally stable within 30 minutes and set within two hours. This means that you are not restricted on the number of courses laid in a day and once the shell is built and the roof sealed, internal work can begin in a weather proof environment leaving the outer skin of brickwork, if required, to be built when convenient and less dependent on the weather. Other benefits include improved construction quality, a cleaner site and less waste.

The mortar is applied using a notched scoop or sledge, both of which are manufactured by Tackburn Limited and Tackburn also offer a full range of hand and power tools, wall ties, fixings and reinforcements to complement the system.

TACKBURN LIMITED LIMITED

22 Pebworth Close, Church Hill North, Redditch, Worcs. B98 9JX
SALES / FAX +44(0)1527 68559
MOBILE 0786 698 4313

Hardware (Thin Joint Mortar Systems)

TACK-tie STAINLESS STEEL WALL TIE, ABUTMENT TIE, EXPANSION / MOVEMENT JOINT TIES

TWIST TIES & TWIST TIE SETTING TOOLS

INSULATION DISCS

INSULATION ANCHORS

MORTAR SCOOPS

MORTAR SLEDGES

BED JOINT REINFORCEMENT MANUFACTURED IN ZINC FINISH & STAINLESS STEEL

REINFORCED NYLON FIXINGS FOR AERATED CONCRETE

LODEN ANCHOR FIXINGS FOR AERATED CONCRETE

ELECTRIC MORTAR MIXERS

MIXER PADDLES

ALLIGATOR SAWS

BLOCK SAWS

SQUARE GUIDES

PLASTIC WEDGE PACKERS

THIN JOINT REINFORCEMENT MESH MANUFACTURED IN ZINC FINISH & STAINLESS STEEL

MOVEMENT CONTROL MESH

MORTAR FOR THIN JOINT SYSTEM

SANDING BOARDS

BLOCK RASPS

JOINT CUTTING TOOLS

HAND TOOLS

POWER TOOLS

ADHESIVES AND SEALENTS

REMEDIAL WALL TIES AND CRACK STITCHING

SCREWS AND FIXINGS

HELICAL BATTEN FIXINGS FOR WARM ROOF APPLICATIONS

WALL TIES FOR THIN JOINT SYSTEM

TACK-tie wall and movement ties.
Made from stainless steel these ties have been designed for use with the Thin Joint System.
Wall ties for cavities up to 100mm.

L-200 Abutment Tie

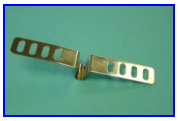
For connecting perimeter walls to dividing walls.
Can also be used for fixing back to steelwork and as a starter wall tie. Requires a fixing.

JJPW Connector Tie

For connecting perimeter walls to dividing walls providing course levels are the same height

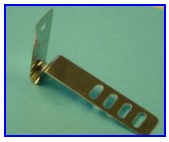
JJ-210, JJ-235, JJ-260 Cavity Wall Tie

For use when two skins of Thin Joint Blockwork are being built at the same time and the course heights are the same.



TMJ-200 Movement Tie

Movement Tie for use in Vertical Movement Joints. The tie is mortared into the joint, (no need for a slip joint). The excess material in the loop allows for expansion and contraction.



SMJ-200 Movement Tie

Movement Tie for fixing back to steelwork, existing masonry, wind posts etc. The tie is mortared into the joint, (no need for a slip joint) and fixed back to the steelwork etc. The excess material in the loop allows for expansion and contraction.

TPW-75/100
Tackburn Party Wall Ties to suit 75 and 100mm cavities.

Tested at BRE these ties meet the requirements of Part E

Twist Ties.
Can be driven into aerated concrete to match joint levels of outer wall.
Manufactured in stainless steel. For cavities up to 150mm.

Insulation Retaining Discs
Can be supplied to fit all of the wall ties.

Tackburn can also supply a full range of wall ties and steelwork for traditional build applications. Please call for a quote.

Channel Ties
Can be supplied in various lengths to suit 21/18 channel systems.

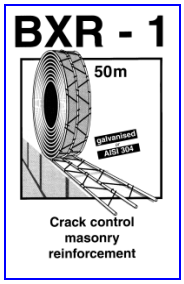
WARM ROOF BATTEN FIXINGS

Warm Roof Batten Fixings
Can be driven through soft wood and into aerated concrete.
Manufactured in stainless steel they can be supplied in a range of lengths from 100mm to 160mm.

BED JOINT REINFORCEMENT

Tackburn can supply the full range of Bekaert reinforcements and Crack Control Meshes for Thin Joint and Traditional Mortar Joints.

Bed Joint Reinforcement
1.5mm thick x 3.05m long x width to suit block.
Available in zinc finish or stainless steel



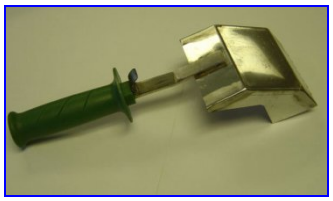
Crack control mesh.
Can be used in Thin Joint Systems and conventional mortar joints.
Available in galvanized finish and stainless steel.
Manufactured in a range of sizes to suit the block width.
Supplied in 50mtr rolls.

Reinforcing Bars for crack stitching repairs can also be supplied.

Tackburn Movement Control Mesh
Approved by Thermolite for use with their Thin Joint System. This material is supplied in 50mtr rolls and widths of 100mm and 150mm.

MORTAR MIXERS and MORTAR APPLICATION

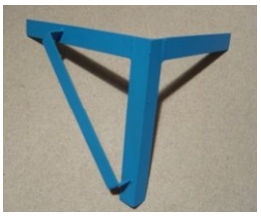
A full range of mixers and mixing vessels is available.



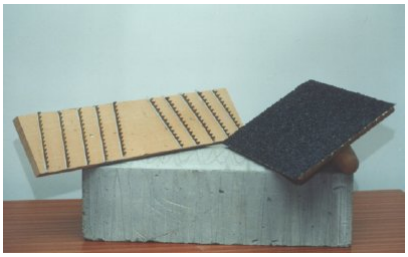
Tackburn Mortar Scoops are manufactured in stainless steel and come in a range of sizes to suit the block width.

Tackburn Mortar Sledges are manufactured in powder coated steel and come in a range of sizes to suit the block width.

BLOCK CUTTING AND PREPARATION



TACKBURN SAW GUIDE



SANDER RASP AND BLOCK RASP

ALL STEEL BLOCK RASP

BLOCK CUTTING BENCH

ALLIGATOR SAW

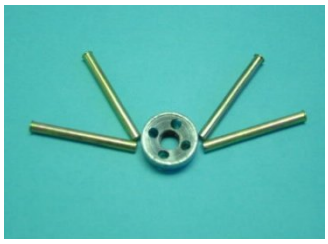
BLOCK SAW WITH TUNGSTEN CARBIDE TEETH

BLOCK SAW WITH HARDPOINT TEETH

RUBBER MALLETS

FIXINGS FOR AERATED CONCRETE

Loden Anchor Fixings.
These all steel, 'hammer home' fixings give an excellent fix in aerated concrete. No pre drilling of the concrete is necessary. Available in zinc plated finish and stainless steel.



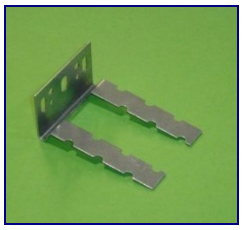
Heavy Duty Loden Anchors
Can be supplied in a range of tapped hole sizes up to M12

Nylon nails.
Made from reinforced nylon these nails give an excellent fix in aerated concrete.

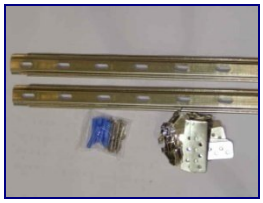
Insulation Anchors.
These anchors are designed to hold insulation against aerated concrete walls. Made from reinforced nylon they eliminate thermal transfer.

Square Screw Anchors.
These anchors are designed to provide a secure fixing for 6-10 gauge screws.
Can be used through rendered blockwork (pre-drilling of render required)

Special Products

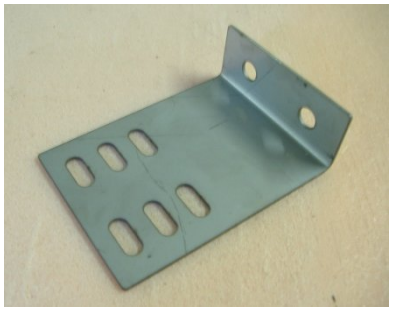


BGMJ-310 Movement Tie
A stainless steel movement tie. Can be used as a restraint when fixing to steel columns. Can also be used as a head restraint.



Wall Starter Kit
A stainless steel starter tie kit that is suitable for use with the Thin Joint System. The kit is supplied with 2 fixing strips, giving a height of 2.4 metres, fixing plugs, screws and 10 wall ties. The kit is suitable for the joining a single skin of blockwork to an existing wall.

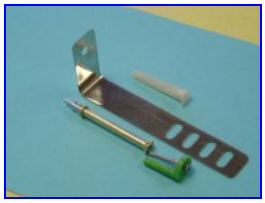
Crack Stitching Rods.
A stainless steel rod suitable for crack repairs and reinforcing. Supplied in 1500mm lengths.
A suitable resin can also be supplied.



ColumnLOK Connector Plates
A range of plates for attaching to steelwork for connection to Thin Joint blockwork.

TACK-tie (TM) WALL TIES

STAINLESS STEEL WALL AND MOVEMENT TIES FOR THIN JOINT SYSTEM

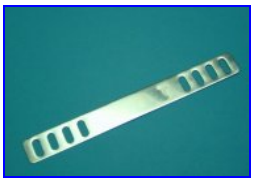


L-200 Abutment Tie

For connecting perimeter walls to dividing walls. Can also be used for fixing back to steelwork and as a starter wall tie. Requires a fixing.

JJPW Connector Tie

For connecting perimeter walls to dividing walls providing course levels are the same height

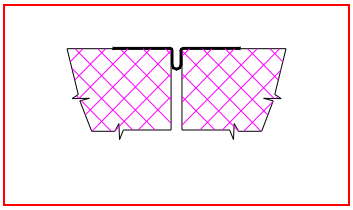


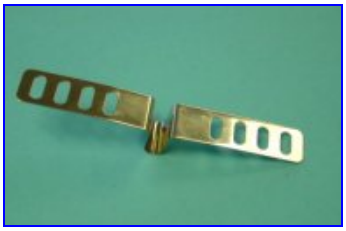
JJ-210, JJ-235, JJ-260 Cavity Wall Tie

For use when two skins of Thin Joint Blockwork are being built at the same time and the course heights are the same.

TMJ-200 Movement Tie

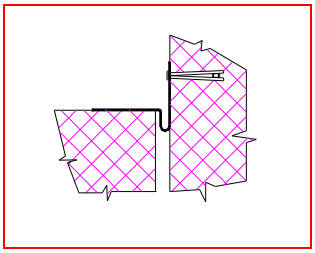
Movement Tie for use in Vertical Movement Joints. The tie is mortared into the joint, (no need for a slip joint). The excess material in the loop allows for expansion and contraction.





SMJ-200 Movement Tie

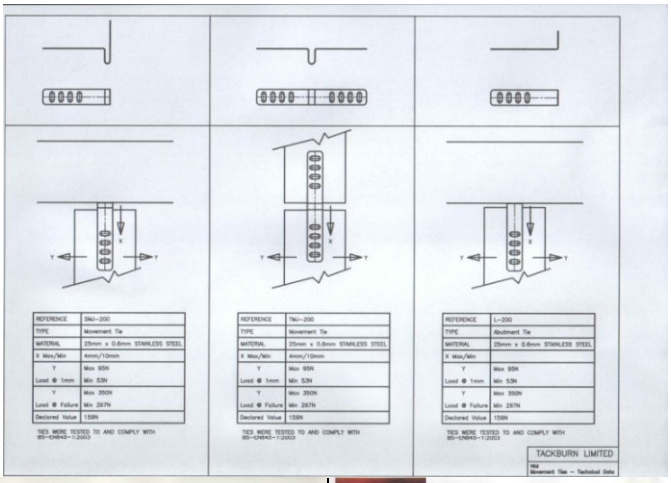
Movement Tie for fixing back to steelwork, existing masonry, wind posts etc. The tie is mortared into the joint, (no need for a slip joint) and fixed back to the steelwork etc. The excess material in the loop allows for any movement.

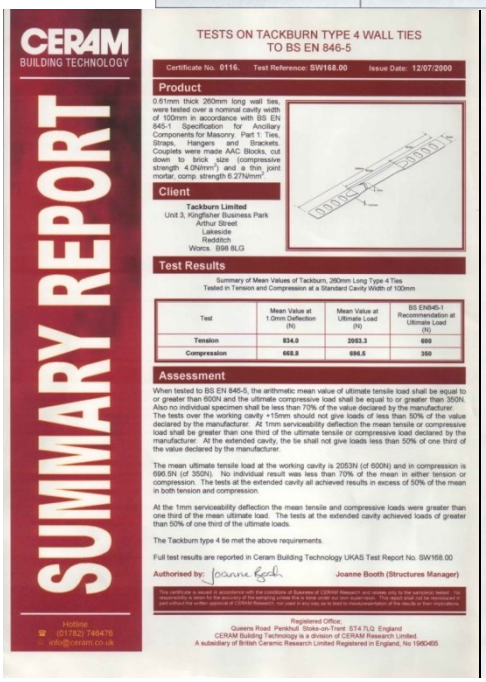


TPW-75/100 – Party Wall Ties (see separate data sheet)

In addition to the above equipment we also offer a bespoke manufacturing service for any special ties or hardware requirements.

TECHNICAL DATA





CERAM BUILDING TECHNOLOGY

SUMMARY REPORT

TESTS ON TACKBURN TYPE 4 WALL TIES TO BS EN 846-5

Certificate No. 0116. Test Reference: SW168.00 Issue Date: 12/07/2000

Product

0.61mm thick 260mm long wall ties, were tested over a nominal cavity width of 100mm in accordance with BS EN 845-1 Specification for Ancillary Components for Masonry. Part 1: Ties, Straps, Hangers and Brackets. Couplets were made AAC Blocks, cut down to brick size (compressive strength 4.0N/mm²) and a thin joint mortar, comp. strength 6.27N/mm².

Client

Tackburn Limited
Unit 3, Kingfisher Business Park
Arthur Street
Lakeside
Redditch
Worcs. B98 8LG

Test Results

Summary of Mean Values of Tackburn, 260mm Long Type 4 Ties Tested in Tension and Compression at a Standard Cavity Width of 100mm

Test	Mean Value at 1.0mm Deflection (N)	Mean Value at Ultimate Load (N)	BS EN845-1 Recommendation at Ultimate Load (N)
Tension	834.0	2053.3	600
Compression	668.8	696.5	350

Assessment

When tested to BS EN 846-5, the arithmetic mean value of ultimate tensile load shall be equal to or greater than 600N and the ultimate compressive load shall be equal to or greater than 350N. Also no individual specimen shall be less than 70% of the value declared by the manufacturer. The tests over the working cavity +15mm should not give loads of less than 50% of the value declared by the manufacturer. At 1mm serviceability deflection the mean tensile or compressive load shall be greater than one third of the ultimate tensile or compressive load declared by the manufacturer. At the extended cavity, the tie shall not give loads less than 50% of one third of the value declared by the manufacturer.

The mean ultimate tensile load at the working cavity is 2053N (cf 600N) and in compression is 696.5N (cf 350N). No individual result was less than 70% of the mean in either tension or compression. The tests at the extended cavity all achieved results in excess of 50% of the mean in both tension and compression.

At the 1mm serviceability deflection the mean tensile and compressive loads were greater than one third of the mean ultimate load. The tests at the extended cavity achieved loads of greater than 50% of one third of the ultimate loads.

The Tackburn type 4 tie met the above requirements.

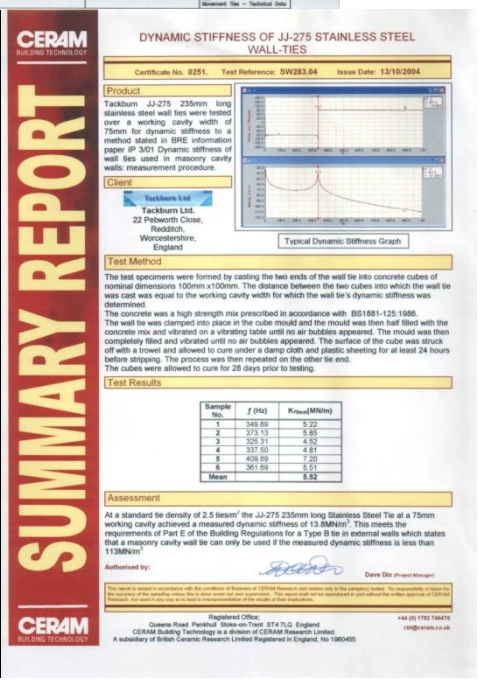
Full test results are reported in Ceram Building Technology UKAS Test Report No. SW168.00

Authorised by: Joanne Booth (Structures Manager)

The certificate is issued in accordance with the conditions of Business of CERAM Research and relates only to the sample(s) tested. No responsibility is taken for the accuracy of the sampling unless this is done under our own supervision. This report shall not be reproduced in part without the written approval of CERAM Research. Nor used in any way as to lead to misinterpretation of the results or their implications.

Hotline
(01782) 746476
info@ceram.co.uk

Registered Office:
Queens Road Penkhull Stoke-on-Trent ST4 7LQ England
CERAM Building Technology is a division of CERAM Research Limited.
A subsidiary of British Ceramic Research Limited Registered in England, No 1960455



CERAM BUILDING TECHNOLOGY

SUMMARY REPORT

DYNAMIC STIFFNESS OF JJ-275 STAINLESS STEEL WALL-TIES

Certificate No. 0251. Test Reference: SW283.04 Issue Date: 13/10/2004

Product

Tackburn JJ-275 235mm long stainless steel wall ties were tested over a working cavity width of 75mm for dynamic stiffness to a method stated in BRE information paper IP 3/01 Dynamic stiffness of wall ties used in masonry cavity walls: measurement procedure.

Client

Tackburn Ltd.
22 Pebworth Close,
Redditch,
Worcestershire,
England

Typical Dynamic Stiffness Graph

Test Method

The test specimens were formed by casting the two ends of the wall tie into concrete cubes of nominal dimensions 100mm x100mm. The distance between the two cubes into which the wall tie was cast was equal to the working cavity width for which the wall tie's dynamic stiffness was determined.
The concrete was a high strength mix prescribed in accordance with BS1881-125:1986.
The wall tie was clamped into place in the cube mould and the mould was then half filled with the concrete mix and vibrated on a vibrating table until no air bubbles appeared. The mould was then completely filled and vibrated until no air bubbles appeared. The surface of the cube was struck off with a trowel and allowed to cure under a damp cloth and plastic sheeting for at least 24 hours before stripping. The process was then repeated on the other tie end.
The cubes were allowed to cure for 28 days prior to testing.

Test Results

Sample No.	f (Hz)	K_{Tested}(MN/m)
1	349.69	5.22
2	373.13	5.85
3	325.31	4.52
4	337.50	4.81
5	409.69	7.20
6	361.69	5.51
Mean		5.52

Assessment

At a standard tie density of 2.5 ties/m² the JJ-275 235mm long Stainless Steel Tie at a 75mm working cavity achieved a measured dynamic stiffness of 13.8MN/m². This meets the requirements of Part E of the Building Regulations for a Type B tie in external walls which states that a masonry cavity wall tie can only be used if the measured dynamic stiffness is less than 113MN/m².

Authorised by: Dave Dix (Project Manager)

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UK Patent Application Number 9900667.8

TACKBURN LIMITED
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Tel / Fax +44 (0)1527 68559
Mobile 0786 698 4313

TACKBURN LIMITED

ColumnLOK

CONNECTOR PLATES FOR ATTACHING TO COLUMNS AND STEELWORK

ColumnLOK 6 (CL6)

For attaching to column face, pillars and blockwork.

Declared Values

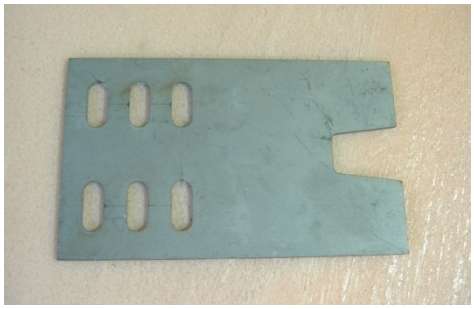
Tension	2558N
Compression	3976N
Shear	1835N

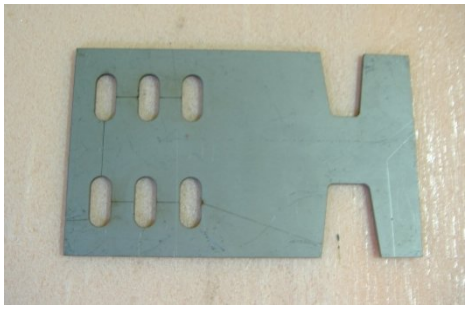
ColumnLOK 5 (CL5)

For attaching to column flange.

Declared Value

Shear	1835N





ColumnLOK 2 (CL2)

For attaching to column flange.

Declared Values

Tension	2558N
Compression	3327N
Shear	1835N

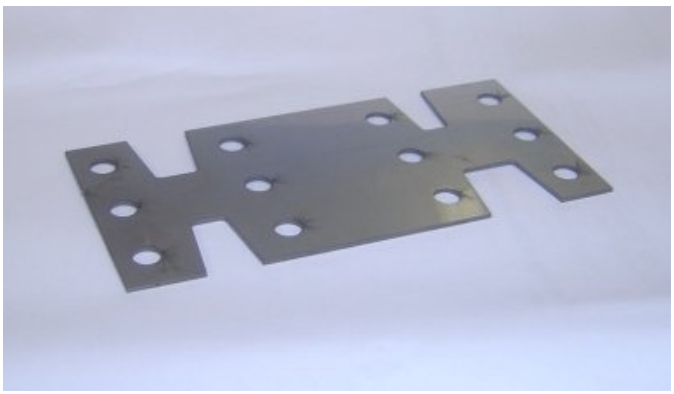
ColumnLOK 1 (CL1) plain
CL1-V with drip point.

For attaching to column flange.

Declared Values

Tension	2558N
Compression	3327N
Shear	1835N

Can be supplied with or without drip point



TACKBURN LIMITED

22 Pebworth Close, Church Hill North, Redditch, Worcs. B98 9JX
Tel / Fax +44 (0)1527 68559 Mobile 0786 698 4313

TWIST TIE

Manufactured from Type 304 austenitic Stainless steel the Tackburn Twist tie is easily driven into aerated concrete using only the propriety-setting tool and hammer blows. The profile of the Twist tie allows it to wind itself into the block which produces a strong permanent hold.
The profile also gives the added advantage of multiple drip points which prevent moisture transfer across the cavity.

Tackburn Twist ties come in various lengths for cavities up to 150mm. They also fit through insulation without any loss of thermal properties.

INSTALLATION

Tackburn Twist tie installation is quick and easy, following these simple guidelines:

1 Load the Twist tie into the drive tool barrel, which is specially designed to ensure the specified tie embedment depth.

2 Test the strength of the installed Twist tie embedment with a load test unit.

3 Install our universal insulation-retaining clip to secure insulation.

4 Twist ties must be built into the bed joint as the exterior cladding courses are laid to meet the embedment specifications

5 Place Twist ties with a slight fall toward the outer wall, taking normal precautions to prevent mortar droppings from collecting on the ties below. Placement and location must be in accordance with applicable standards and project specifications.

6 A project engineer must specify the precise embedment positioning of Twist tie.

7 Twist ties should be installed by qualified contractors and the project engineer must approve installation.

TACKBURN LIMITED

22 Pebworth Close, Church Hill North, Redditch, Worcs. B98 9JX
Tel / Fax +44 (0)1527 68559 Mobile 0786 698 4313

TWIST TIE SDS DRIVE TOOLS

Tackburn Ltd can offer a range of drive tools to complement its range of Twist Ties. Whilst the standard hand drive tool will suit most applications there are situations, such as higher density blocks or the method of construction, where the use of a power tool is required. To accommodate this Tackburn can supply a selection of drive tools to fit an SDS drill. It is important to ensure that the drill has a chisel only action and that this is selected. The rotary / hammer action should not be used.

Tackburn Power Driver

Designed and manufactured by Tackburn Ltd For use when installing Twist Ties for Thin Joint to traditional mortar joints. This driver can be supplied to suit cavity widths of 50,75 and 100mm.

Tackburn Flush Fix Power Driver

For use when installing Twist Ties for Thin Joint to Thin Joint applications. The driver is used to drive a Twist Tie through one skin of aerated blockwork, across a cavity and into a second skin of aerated blockwork. The sprung loaded nose of the driver ensures that when fully installed the Twist Tie is flush with the face of the block. This method of installing Twist Ties means that the ties can be installed from inside or outside the structure and the installation pattern can be easily seen.

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Party Wall Ties

Tackburn HRT4 ties are a Type A tie for internal separating walls of any height. They are supplied in lengths to suit 75mm and 100mm cavities. Recommended for Thin Joint and traditional mortar build.

They are also suitable as a Type 4 wall tie in external walls of houses not greater than 10 metres in height.

Ordering Codes

HRT4-200	75mm Cavity
HRT4-225	100mm Cavity

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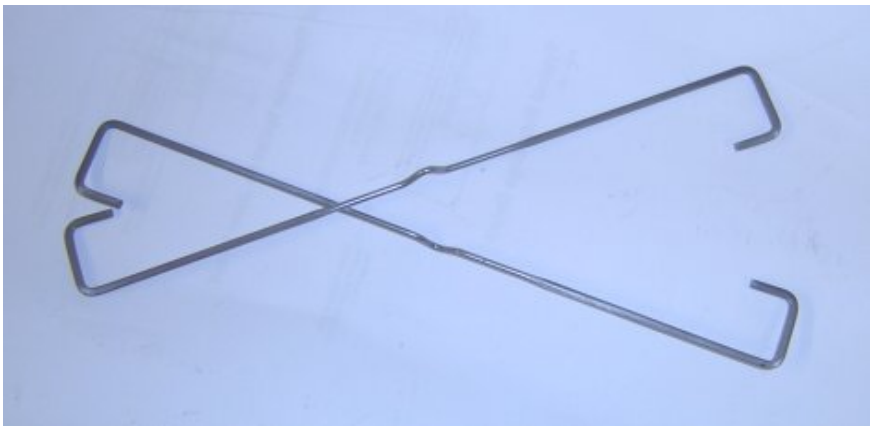
Tackburn Party Wall Ties



Tackburn TPW ties are for internal separating walls (party walls). They have been tested at BRE to ensure that they meet the requirements for Dynamic Stiffness and conform to PartE.

The ties are manufactured from 2.3mm diameter stainless steel wire. The ends have been flattened to 1.5mm thick, ensuring that they can fit into a 2-3mm joint without affecting the course level.

They are supplied to suit 75mm and 100mm cavities and are recommended for Thin Joint Systems.

Ordering Code

TPW-75/100	Suitable for 75mm and 100mm cavities

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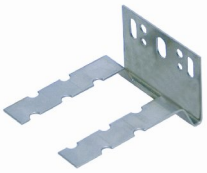
Xella Big Block System

Tackburn Limited can now offer a range of products for the Xella Big Block System. This system utilises large format calcium silicate blocks and our products are made specifically for Big Block Systems, in Holland, by GB Bodegraven.

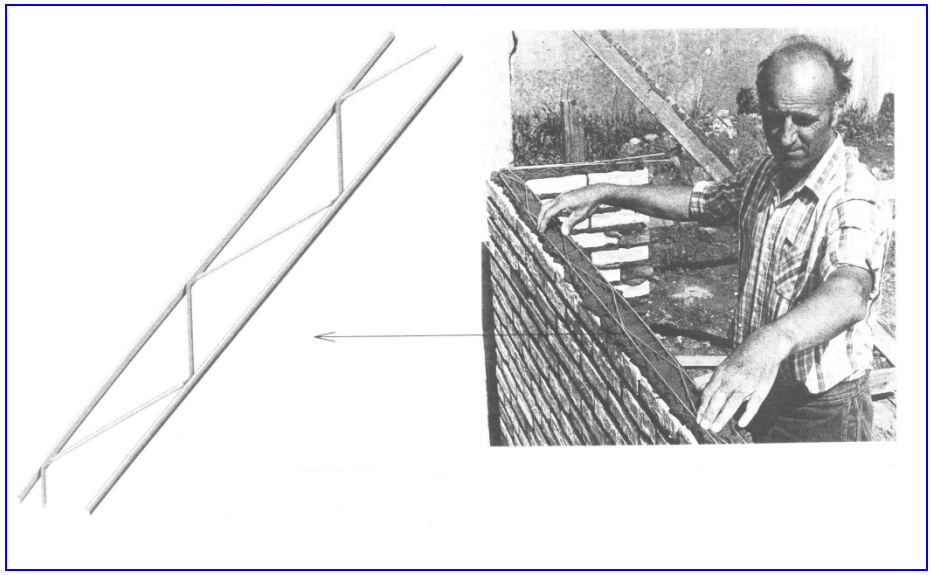


TACKBURN LIMITED
Murfor Efs for Thin Joint Masonry Reinforcement

Murfor Bed Joint Reinforcement provides:-
Enhanced Structural Integrity
Long Term Performance

Murfor improves the Structural Performance of Masonry by:-
Enhancing Lateral Load resistance
Accommodating Vertical Loads

Supplied in two finishes
Efs/Z = Zinc finish for masonry in a dry environment.
Efs/S = Stainless Steel for masonry in a damp or aggressive environment.



The Tackburn Thin Joint Masonry Reinforcement is manufactured from two flat longitudinal wires, each 1.5mm thick which are welded to a continuous zig-zag wire to form a lattice truss configuration. The cross wire is welded to the sides of the flat longitudinal wires so that the overall thickness does not exceed 1.5mm. The Reinforcement is manufactured in 3.05 metre lengths.

Material
The Tackburn Thin Joint Masonry Reinforcement is available in two standard finishes:-

Hot Dipped Galvanised (ref..../Z) with a zinc coating of at least 70g/m2, for masonry exposed to a dry environment.

Stainless Steel (ref..../S) grade 304, for masonry exposed to dampness or an aggressive environment.

Standard widths

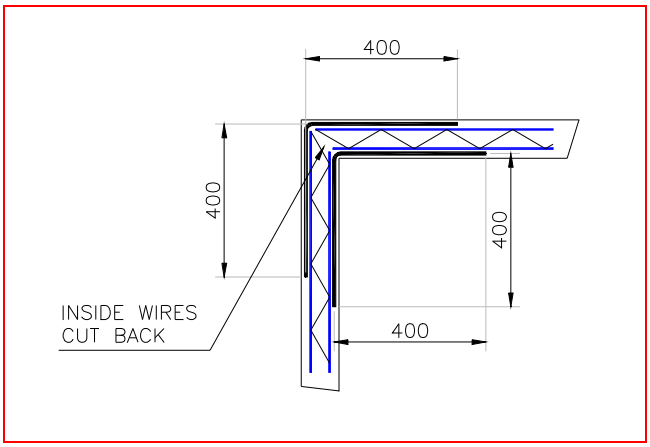
Ref	**width**	**length**	**suitable block width**
Efs-40	40mm	3.05m	80 - 115mm
Efs-90	90mm	3.05m	120-160mm
Efs-140	140mm	3.05m	170-210mm
Efs-190	190mm	3.05m	over 220mm (special)

Typical order code Efs-40/Z = 40mm wide galvanized finish.

METHOD OF USE

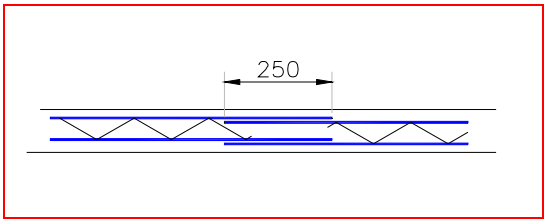
1) Apply a first layer of Thin Joint mortar to the blocks.
2) Press the bed joint reinforcement into the Thin Joint mortar.
3) Apply a second layer of Thin Joint mortar.
4) Lay the next course of block in the normal way.

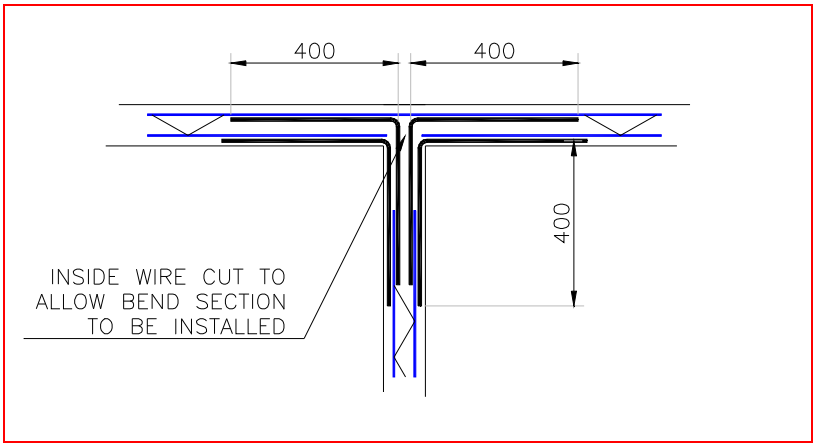
ACCESSORIES



Typical view showing the position of the corner units around the exterior wall of a building.

Typical view showing the lap connection of two lengths of bed joint reinforcement





Typical view showing the corner unit positions when joining an abutted wall

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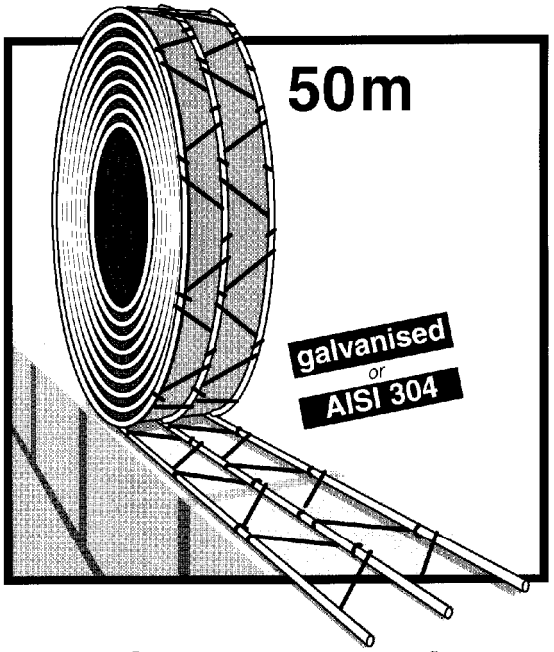
BXR - 1



Crack control masonry reinforcement

Bekaert BXR-1 reinforcements are specifically designed to control movement and localised stress cracking in Thin Joint blockwork. BXR-1 is only 1.5mm thick and fits neatly within a 2-3mm thick Thin Joint Mortar bed.

For structural reinforcement please use the EFS range of products.

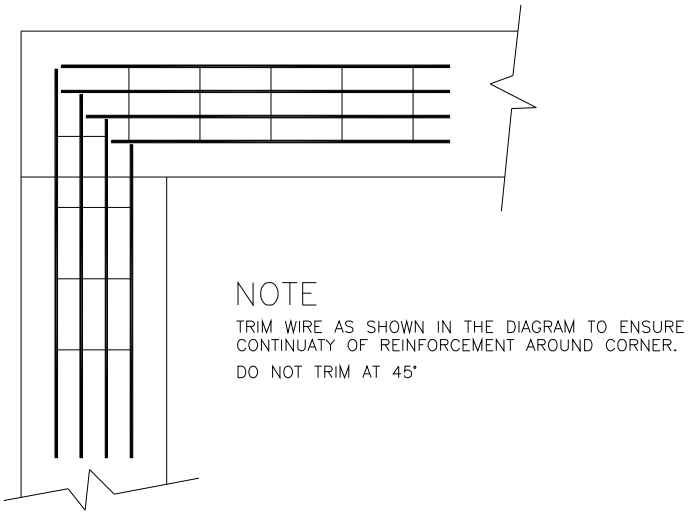
Supplied in two finishes – Roll Length 50 metres
BXR-1/Z = Zinc finish for masonry in a dry environment.
BXR-1/S = Stainless Steel for masonry in a damp or aggressive environment.

`

BXR-1 IS VERY EFFECTIVE IN REDUCING CRACKING IN MASONRY DUE TO THE FOLLOWING CAUSES:-

- Shrinkage due to drying out.
- Movement due to moisture loss or gain in external situations.
- Movement due to fluctuations in temperature.
- Flexure or tensile stresses resulting from loading.
- Stress concentrations around door and window openings.
- Movement of partition walls due to deflection of the supporting structure.
- Long term creep effects.

FITTING BXR-1 AROUND CORNERS



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LODEN ANCHOR FIXINGS

Manufactured by Tackburn Limited, the Loden Anchor Fixing is a unique hammer home fixing for use in aerated concrete. The Loden is an all steel fixing and is supplied in zinc plated mild steel or stainless steel. The fixing comprises of two parts, a tubular outer body and an inner pin. The Standard Head Loden Anchor is manufactured in the following lengths
60, 75, 90, 115 and 150mm
The range also includes a Loop Head Type which is referred to as an LB60

General rule for calculating the length required is 50mm penetration into the blockwork plus the thickness of the item being fixed.

To fix a 25mm thick batten 50mm + 25mm = HB75 Loden

HOW TO INSTALL LODEN ANCHOR FIXINGS

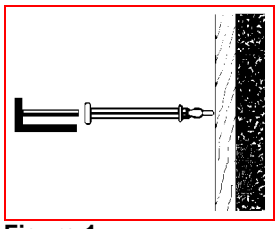


Figure 1

Insert pin of the gauge into the head of the Anchor. Holding the gauge and Anchor between fingers and thumb, place in position required.

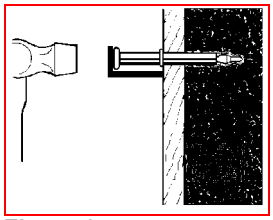


Figure 2

Hammer the head of the gauge until the tail of the gauge comes into contact with the object to be fixed.

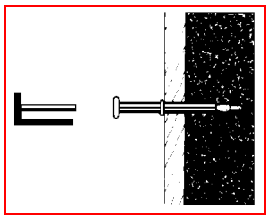


Figure 3

Remove gauge.

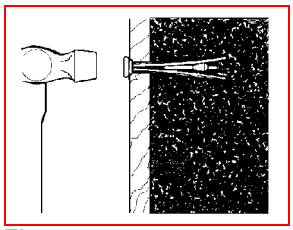


Figure 4

Hammer the Anchor home.

HOW TO CHECK SETTING

Loden Anchor Fixings can be inspected after installation under difficult site conditions.
E.g. if the blocks are wet, by checking with a matchstick or nail that the inner is no more than 12mm from the surface. If this measurement is greater adjust by removing the setting tool before the tail reaches the surface of the fixture by the appropriate amount.

Loden Anchor Fixings will retain their Maximum Load after considerable movement inside the Building Material

THE RANGE

STANDARD HEAD

Anchor Reference	Diameter "D"	Length "L"	Max fixing Thickness	Quantity Pack	Box
HA 50	5.0mm (3/16")	50mm (2")	12.5 mm (1|2")	100	1500
HA 75	5.0mm (3/16")	75mm (3")	37.5 mm (11/2")	100	1500
HB 60	6.5mm (1/4")	60mm (21/4")	12.5 mm (1/2")	50	800
HB 75	6.5mm (1/4")	75mm (3")	37.5mm (11/2")	50	700
HB 90	6.5mm (1/4")	90mm (31/2")	50.0mm (2")	50	600
HB115	6.5mm (1/4")	115mm (41/2")	75.5mm (3")	50	500
HB150	6.5mm (1/4")	150mm (6")	112.5mm(41/2")	50	500

LOOPED HEAD

LB 60	6.5mm (1/4")	63mm (21/2")	Loop to take 10g (1/8") Dia of Wire	50	500

DE-LUXE SETTING TOOLS

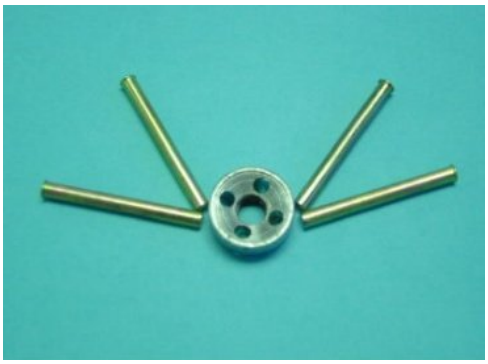
HA, HB, LB, 1

De-Luxe setting tools are available for the HA, HB and LB ranges.

HEAVY DUTY FIXINGS

Anchor Ref

HD 75 1



The Heavy Duty Loden Anchor consists of a steel threaded boss and four hardened steel pins. The boss can be surface mounted or recessed into the blockwork. The four pins anchor the boss into the blockwork.

Boss can be tapped M6 to M12

Bosses tapped M12 are stock items.

PULL - OUT LOADS

For the complete Loden Anchor Fixing Range

Low density building blocks are often exposed to very wet conditions on site prior to use and at the time of fixing may appear dry superficially, whilst the core of the block is still wet. In these circumstances it is recommended that during the initial hammering of the Anchor a gap is left between the tail on the setting gauge and the surface of the fixture to ensure expansion of the Anchor. This can be confirmed by checking with a nail or matchstick that the inner is no more than 12 mm below the surface. For saturated blocks, the above ultimate loads would be reduced initially until dry. Safe loads for critical applications would be approximately 25% of the above. For non-critical uses, 35% would be satisfactory. The above information is offered as a guide only. Our Technical Service Department will be pleased to offer specific advice about fixing problems into low density materials.

Composition, density compressive, strength and moisture content of the block and the depth of anchor penetration are factors determining the maximum pull-out loads of all Loden Anchor fixings. On tests in dry blocks the following ultimate pull out loads have been obtained and may be used as a guide:-

All Loden Anchors — Ultimate Pull-Out Loads

Compressive strength of blocks (N/mm2)		3.5	2.8	3.5	2.8
Diameter	Depth in Block	Minimum		Maximum	
5.00 mm (31/16")	38mm (11/2")	90 kg		130 kg	
5.00 mm (31/16")	50mm (2")	110 kg	57 kg	155 kg	72 kg
6.5 mm (1/4")	38mm (!1/2")	130 kg		205 kg	
6.5 mm (1/4")	50mm (2")	170 kg	97 kg	270 kg	125 kg

Heavy Duty

	Kgs	N	Kgs	N
Anchors in 3.5 N/mm^2 Compressive strength				
Eg Durox, Celcon & Thermalite	500	4895	750	7340
Durox Supabloc 3.5 N/mm^2	372	3649	477	4672
Lightweight Aerated Concrete 2.8 Nmm^2	250	2440	400	3916

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Loden Anchors Fixings are Protected by Patents

TACKBURN LIMITED

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Mobile 0786 698 4313

The Nylon Nail

The new fast hammer home nail is a really strong, fast and economical way of fixing plasterboard, wall ties etc to Autoclaved aerated concrete. It has superb pull out loads and **does not** require the blocks to be pre-drilled.

When used for dry lining aerated concrete with plasterboard the nylon nail eliminates the time consuming method of battening and dabbing.

Specification

Made from glass filled Nylon.

Pullout Loads as follows.

Block Density	Nail length 9mm Plasterboard	Nail length 12mm Plasterboard
350 kg / m	350mm	50mm
420 kg / m	350mm	50mm
640 kg / m	335mm	35mm
700 kg / m	35mm	35mm

Competitive Advantages

Easily hammered into block work.

Saves up to 50% installation time compared to traditional methods.

The Nylon Nail

fixing instructions

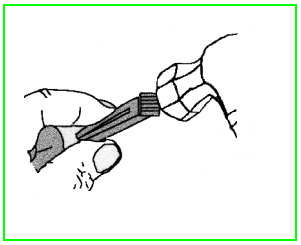
ALWAYS WEAR EYE PROTECTION WHEN FIXING

STEP 1

Make sure the block work that you are going to fix the plaster board to is relatively flat and free from any excess mortar.

STEP 2

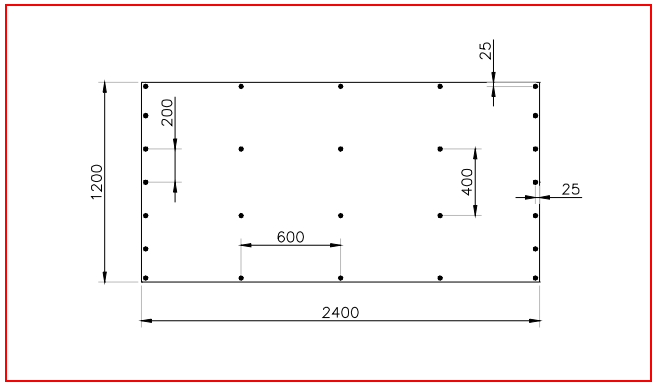
Place the plaster board against the block work and offer the nail up to the board. Holding the end of the Nylon Nail between thumb and forefinger squeeze to close the slot and hammer home until the head of the Nail is flush with the plaster board.



Nail Spacing

The total number of nails recommended per board is 26. The board can be secured using 4 - 6 nails. The additional use of nails is to prevent the board from Aflapping@. The board can also be secured using small amounts of adhesive supplemented by nails.

Guide to Nail Spacing



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The Square Anchor

ALWAYS WEAR EYE PROTECTION WHEN FIXING

A unique fixing for AAC Blocks which requires no pre-drilling and can be hammered home with ease into the blockwork providing a secure anchor for size 6-10 gauge screws.

Applications

Superb pull-out tolerances mean this anchor can be used to secure heavy objects to AAC blocks. If the blockwork is rendered an 8mm diameter hole must be drilled first to pierce the render, the anchor can then be fully installed.

Specification

Made from glass filled Nylon.

Pullout Loads as follows.

Screw size	Screw Penetration	Block Density 475kg/m3	Block Density 650kg/m3
6	35mm	83kg	120kg
8	35mm	96kg	190kg
10	35mm	120kg	200kg
12	35mm	170kg	270kg

Competitive Advantages

Easily hammered into blockwork.
Takes a size 6-10 gauge screw
Superb pull-out tolerances
Can be used through rendered blockwork (pre-drilling of render required)

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The Insulation Anchor

Applications

The Insulation Anchor secures rigid or foam insulation directly into Autoclaved Aerated Concrete blocks and its specially structured head helps to insure superb fastening qualities.

The anchor has excellent impact resistance and can be hammered directly home through foam insulation. If rigid panels are to be used an 8mm hole needs to be predrilled first and then the anchor can be hammered in.

Specification

Made from reinforced glass fibre Nylon.

Head Diameter 35mm.

Length 88mm.

Suitable for securing insulation panels up to 55mm thick.

Competitive Advantages

Excellent impact resistance.

Services in temperature extremes.

No metal parts which reduces condensation potential.

Saves installation time by up to 50% compared to conventional fasteners.

Corrosion resistant.

Can be hammered home through foam insulation.

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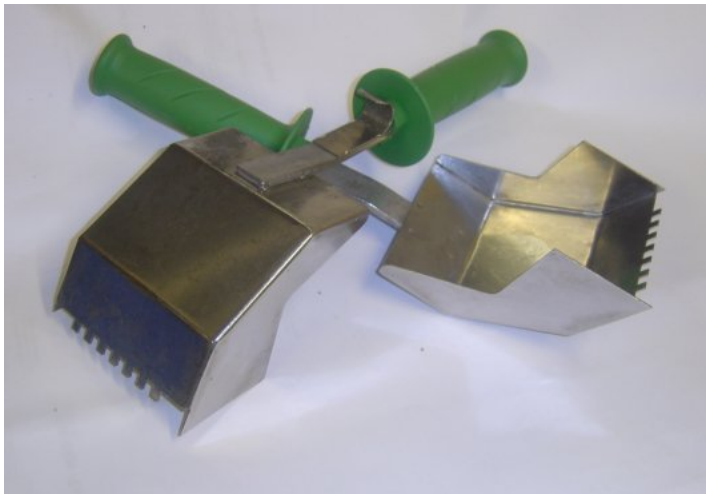
Tackburn Thin Joint Mortar Scoops

Designed and manufactured by Tackburn Limited
Manufactured in stainless steel
Manufactured in various widths to suit width of block
Parallel sides of scoop to control mortar width which reduces mortar wastage
Thick bead on edge to ensure joint is filled
Guide flange ensures neat, controlled, repeatable mortar pattern
Unique hand grip with drip guard
Bucket hook on handle stem for operator convenience



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Tackburn Thin Joint Mortar Scoops

Supplied by Tackburn Limited
Thermolite recommended
Manufactured in GRP
Manufactured in various widths – colour coded to suit width of block
Red = 90/100mm block width
Yellow = 115/125/130mm block width
Blue = 140/150mm block width
Green = 190/200mm block width
Black = 215mm block width
White = 265mm block width

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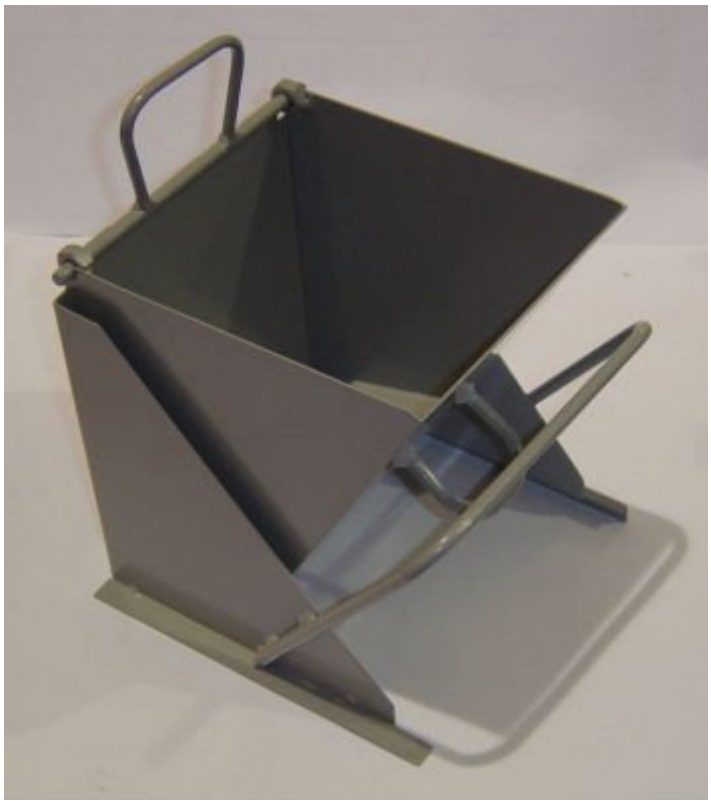
Tackburn Thin Joint Mortar Sledges

Designed and manufactured by Tackburn Limited
Manufactured in mild steel and powder coated
Manufactured in various widths to suit width of block
Guide flange ensures neat, controlled, repeatable mortar pattern



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WALL CHASING FOR ELECTRICAL CABLES AND BOXES

Tackburn Limited can supply a range of products to help speed up the installation of electrical cables and boxes ranging from hand tools to SDS attachments. Below are a range of products available from stock.

HAND WALL CHASER.
Suitable for lightweight blocks.
Forms a 20mm wide channel.

SDS Attachments are quick and convenient to use and available in a range of widths.

SDS Attachments are even available for cutting a channel behind skirting boards.

Square holes are no problem and we supply kits to produce holes for single and double boxes.

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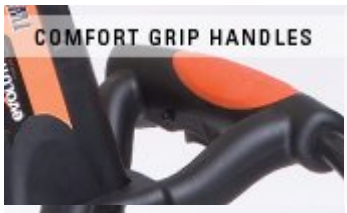
MOBILE 0786 698 4313

TWISTER MIXER

A good quality, budget priced mixer with variable speed control, from 250-750rpm. Featuring a robust headstock and an ergonomic handle for maximum comfort and control. There really is no substitute for a dedicated mixer, they're fast and easy to use, and at this price it's an excellent investment.



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PM61000E Pro Paddle Mixers with 120mm Paddle

Special protection frame, which protects the tool from strokes, and serves for easy laying down the tool in working environment

Soft rubber handle offers good, firm grip and prevents the tool from sliding - Variable speed control

Adequate for mixing volumes to 40 Litre

Model PM
Rated power 850w
Electronic switch yes
No load speed 1st gear /min 0-680
Mixer retention inside thread M14
Stirrer diameter mm 120
Max mixing weight up to 40 Litre
Weight kg 3,2

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Collomix Mixers

Collomix are Europe's best selling power mixers. Designed for optimum power, the mixers are engineered to mix a vast variety of construction materials in the quickest possible time.

- Single speed gearbox
- Ideal for batch loads up to 30 litres
- WK120 Paddle included

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BLOCK CUTTING

The workbench consists of a robust fabricated main frame. The workbench has a single pivot point which allows it to fold away neatly for storage or transport. Being so light and portable the workbench can easily be carried between floors in a typical building.

The workbench is clearly marked to facilitate accurate block cutting.

The workbench is supplied with a pair of adaptor bosses which are easily fitted and allow the Alligator Saw to be mounted on the bench.

TACKBURN LIMITED

Conditions of Sale and Quotation

Contents

1. GENERAL
2.DOCUMENTS
3.PRICES
4.TERMS OF PAYMENT
5.TERMINATION AND PARTIAL DELIVERIES
6.TIME FOR DESPATCH
7.FORCE MAJEURE
8.DELIVERY
9.RETURNS
10.FAULTS AND DEFECTS AND EXCLUSION OF LIABILITY
11.INSPECTION AND TESTS
12.INDEMNITY
13.PROPERTY IN GOODS
14.HEALTH AND SAFETY AT WORK
15.LEGAL CONSTRUCTION/ARBITRATION
16.INSOLVENCY/DEFAULT

1. GENERAL

(a) These conditions shall apply to all quotations made and all orders and contracts for the sale of goods (Agoods@) accepted by us. Any other terms, conditions, warranties or representations, are hereby excluded. Special or additional terms of the Purchaser shall be of no effect unless specifically accepted by us in writing.
(b) Any variation or addition to these conditions or any contract shall only be binding upon us if in writing accepted and signed on our behalf by a director. Contracts may be cancelled only with our written consent and on terms which will indemnify us for a loss.
(c) No quotation by us shall constitute an offer and no order placed by the customer shall be binding upon us unless and until specifically accepted by us, all such acceptances, whether oral or in writing being strictly subject to these conditions.

2. DOCUMENTS

(a) All catalogues, quotations, illustrations, drawings, estimates of performance, estimates of dimensions or other specifications provided by us are approximate only and do not form part of the contract. We reserve the right to modify our product specifications from time to time.
(b) We reserve the right at any time to correct clerical or technical errors in the contract documents.
(c) The Purchaser shall furnish us with any necessary specifications with his order. We take no responsibility for goods manufactured, priced or delivered not in accordance with the order or the specifications, unless the Purchaser=s order and specifications are clear and correct in every particular.

3. PRICES

All selling prices are shown in our standard price lists prevailing at the date of the despatch and are ex-works, exclusive of VAT. We reserve the right to alter or amend such price lists from time to time.

4. TERMS OF PAYMENT

(a) Unless otherwise agreed, payment is due in full, without set off or deferment, 30 days from date of invoice.
(b) Where the Contract is to be or may be fulfilled in separate deliveries or parts, payment for each such delivery or part shall be made as if the same constituted a separate contract.
(c) Should the Purchaser fail punctually to comply with the terms of payment, we shall be entitled to interest on any amount overdue at the rate of 1.5% above the Base Rate of HSBC Bank plc from time to time in force.

5. TERMINATION AND PARTIAL DELIVERIES

In the event of the Purchaser for any reason failing within one calendar month of the due date for payment to effect any payment which may be due under any contract with us, or if the Purchaser

commits any breach of any contract with us or on the occurrence of any event referred to in paragraph 16 hereof, we shall thereupon be entitled forthwith to terminate the contract or any unfulfilled part thereof, or any other contract with the Purchaser or at our option to make partial deliveries thereon.

6. TIME FOR DESPATCH

While we will endeavour to meet any estimated date or dates for delivery of the goods, times for despatch and delivery expressed in the contract shall not be of the essence. We shall be under no liability for any loss or damage to the Purchaser or others arising out of late despatch or delivery, whether such loss or damage is direct, indirect, consequential or otherwise, nor shall such late despatch or delivery be deemed to be a breach of contract, nor entitle the Purchaser to cancel the contract.

7. FORCE MAJEURE

(a) We shall be entitled, without liability on our part and without prejudice to our other rights, to terminate the contract or any unfulfilled part thereof, or at our option to suspend or make partial deliveries, if the completion of the manufacture of the goods by us or by our sub-contractors or suppliers is prevented, hindered or delayed for a period of three months from the estimated date of delivery by reason of the Purchaser failing to furnish necessary information or instructions or by reason of war, civil commotion, governmental restrictions, transport difficulties, strikes, lock-outs, accident or stoppages to works, shortages of labour, materials, equipment, fuel or power, machinery breakdown or any other cause whatsoever beyond our subcontractors= or suppliers= reasonable control.
(b) If the contract is terminated whether in whole or in part in such circumstances, the customer shall be liable to pay for any goods delivered under the terms of the contract on a pro rata basis. In such circumstances we shall incur no liability to compensate the customer for any loss or damage whatsoever incurred and caused by the failure to deliver the goods.

8. DELIVERY

(a) When delivery is arranged by us the Purchaser shall be bound to accept delivery of goods on arrival at his works or such other destination as specifically notified to us in writing by the Purchaser. Where delivery is to be made otherwise than direct to the customer=s works we reserve the right to make an additional charge in respect of the costs of delivery and the Purchaser shall be deemed to have authorised us to accept acknowledgement of receipt of the goods from a third party at our discretion at a place where the goods are to be delivered as if that third party were the customer or his agent. Risk in the goods shall pass to the Purchaser upon delivery to the Purchaser=s works or such other destination as referred to above. The Purchaser must notify us and the carrier in writing (otherwise than upon the carriers documents) of damage in transit, mis-delivery or quantity discrepancy within 24 hours. The Purchaser must notify us and the carrier in writing (otherwise than upon the carriers documents) of non-delivery within 6 days where delivery is affected through the post, and within 10 days where delivery is affected by road transport or British Rail, in all cases from the date of our invoice. Full particulars of a claim or loss must be received in writing within 14 days of delivery.
(b) Where delivery is arranged by the Purchaser, risk shall pass on to the Purchaser on delivery to his carrier or representative.
(c) Without prejudice to our other rights, should the Purchaser for any reason fail to accept delivery of goods on arrival, we shall be entitled at the Purchaser=s risk and expense to store, and or procure or effect storage of the goods elsewhere.
(d) The Purchaser warrants that any necessary unloading facilities will be available at the place of delivery.

9. RETURNS

Goods returned other than under clause 10(b) will not be accepted or credited by us unless previously agreed in writing.

10. FAULTS AND DEFECTS AND EXCLUSION OF LIABILITY

(a) All faults or defects, whether visual or non-visual, must be notified to us in writing within 30 days of date of despatch.

(b) Providing the Purchaser notifies us in accordance with (a) above and returns the goods carriage paid within 30 days and upon the fault or defect being established to our satisfaction we shall repair the goods or replace them delivered free to the customer=s premises in exchange for the goods returned. When notified in accordance with clause 8(a) of damage in transit, mis-delivery or quantity discrepancy that is established to our satisfaction, we shall replace such goods or deliver any shortage to the Purchaser=s premises free of charge.
(c) We shall not replace goods or make up shortages:
(i) In respect of which the Purchaser or any third party has without our previous written consent effected modifications or repairs;
(ii) If the faults or defects were caused by incorrect or negligent handling, installation, disregard of operation, instructions, overloading, unsuitable work or any other default by the Purchaser or any third party;
(iii) If the faults or defects were caused by fair wear and tear, accident, or any other matter beyond our reasonable control occurring after the date of delivery.
(d) Without prejudice to the generality of the foregoing:
(i) We shall not be liable for any consequential loss or damage suffered by the Purchaser including but without limitations delay, loss of production, loss of profits or loss of or damage to other property or goods.
(ii) We shall not be liable in damages in excess of the total price of the goods supplied under the Contract.
(e) The provision of this Condition 10 shall apply, subject to any relevant limitations imposed by the Unfair Contract Terms Act 1977.

11. INSPECTION AND TESTS

All reasonable care will be taken to ensure that the goods are of merchantable quality and fit for their purpose prior to delivery. However, special tests or inspections specifically required by the Purchaser will be charged extra. They will be carried out at our premises or at a specialist testing facility on our having given the Purchaser at least 7 days prior notice. If the Purchaser fails to attend they will be carried out in his absence but deemed to have been carried out in his presence and to his satisfaction.

12. INDEMNITY

We shall not be liable for and the Purchaser shall indemnify us against all claims, damages, costs (including legal costs) and expenses whether of a direct, indirect or consequential nature by any person in tort for the infringements of industrial property rights directly or indirectly connected with goods manufactured by us or with work done by us on goods in accordance with the Purchaser=s specifications or with the siting or installation of goods.
The Purchaser shall also indemnify us against all actions, claims or demands by third parties in tort or otherwise arising directly or indirectly in connection with faults or defects in the goods caused by adhering to the customer=s specification to the extent that the same exceeds the liability in damages in excess of the total price of goods supplied under the Contract.

13. PROPERTY IN GOODS

Until payment in full has been received by us for all goods whatsoever supplied at any time, and under any contract by us to the Purchaser:
(a) Property in the goods shall remain in us and the Purchaser shall hold the goods as bailee on our behalf;
(b) The Purchaser shall subject to (c) and (d) below store the goods separately from other goods in the possession of the Purchaser;
(c) The Purchaser shall be at liberty to sell the goods in the ordinary course of business on the basis that from the proceeds of sale of such goods the Purchaser shall account to us for the selling price of the goods on demand.
(d) The rights of the Purchaser referred to in (c) above in respect of any goods supplied by us shall be determined:
(i) By written notice to the Purchaser if any payment for any goods supplied under any contract whatsoever remains unpaid 14 days after becoming due to us, or

(ii) Automatically on the occurrence of any event referred to in paragraph 16 hereof, or

(iii) At our absolute discretion, if it appears to us that the Purchaser will be unable to make payment for the goods supplied, or any other goods supplied under other contracts with ourselves.

(e) Upon determination of the powers of the Purchaser referred to in (c) and (d) above or until such time as property in the goods has passed to the Purchaser:

(i) We shall have absolute authority to retake, sell or otherwise deal with or dispose of all or any part of the goods to which property remains vested in us.

(ii) For the purpose specified in (i) above we may or any of our agents or authorised representatives shall be entitled at any time and without notice to enter upon any premises in which the goods or any part thereof are installed, stored or kept or are reasonably believed so to be for the purpose of removing or retaking of such goods.

(f) At our absolute discretion, if it appears to us that the Purchaser will be unable to make payment for goods supplied, or any other goods supplied under other contracts with ourselves.

Not withstanding the foregoing, risk in the goods shall pass on delivery of the same to the Purchaser and until such time as property in the goods has passed to the Purchaser, the Purchaser shall insure such goods to their full replacement value naming us as the loss payee and the Purchaser shall forthwith upon request provide us with a Certificate or other evidence of such insurance.

14. HEALTH AND SAFETY AT WORK

The attention of the Purchaser is drawn to the provisions of Section 6 of the Health and Safety at Work, etc, Act 1974. We will make available on request, information on the design, construction, installation and operation of our products to ensure that, as far as is reasonably practicable, they are safe and without risk to health when properly used. It is the responsibility of the Purchaser to take such steps as are necessary to ensure that appropriate information relevant to our products is made available to his employees and any person to whom the Purchaser supplies them.

15. LEGAL CONSTRUCTION/ARBITRATION

The contract and these conditions shall in all respects be construed and operated in conformity with English Law. If any part of a clause is unenforceable it shall not affect the validity of the remainder of that clause or of the Terms and Conditions as a whole.

All disputes, differences and questions which may at any time arise, between the parties hereto or their respective representatives or assigns, touching or arising out of or in respect of these Conditions or the Contract or the subject matter thereof, shall be settled by arbitration and shall be referred to a single Arbitrator in accordance with the provisions of the Arbitration Act 1950 or any statutory modification or re-enactment thereof for the time being in force. Failing agreement the Arbitrator shall be appointed by the President for the time being of the Law Society.

16. INSOLVENCY/DEFAULT

If the Purchaser:

(a) Being a company

(i) Has a petition for its winding up, or

(ii) Has an administration order made against it, or

(iii) Passes a Resolution for voluntary winding up (other than for the purpose of a bona fide amalgamation or reconstruction), or

(iv) Compounds with its creditors, or

(v) Has a Receiver or Administrator appointed over all or any of its assets, or

(b) Being an individual

(i) Becomes bankrupt or insolvent, or

(ii) Enters into any arrangement with his creditors, or

(c) Commits a serious breach of this agreement (and in the case of such a breach being remediable, fails to remedy it within 7 days after receiving notice to do so) the price of all goods invoiced and delivered under any contract shall immediately become payable to us and in addition we shall have the right in our absolute discretion to cancel or suspend forthwith any contract subsisting with the Purchaser without prejudice to our rights to recover any loss or damage sustained