



product catalogue



Specialist Manufacturers
& Suppliers of:

- Jointing Products
- Waterproofing products
- Sealants
- Membranes
- Grouts
- Concrete Accessories
- Formwork Accessories
- Reinforcement

contents

1 spacers for reinforcement

SINGLE COVER CONCRETE SPACER BLOCKS	.4
DOUBLE COVER CONCRETE SPACER BLOCKS	.4
TRIPLE COVER CONCRETE SPACER BLOCKS	.4
MESHMAN CONCRETE SPACERS	.5
CONCRETE SQUARE BAR	.5
PLASTIC TRACK SPACER	.5
PLASTIC WHEEL SPACER	.5
PLASTIC PILE CAGE SPACER	.6
GRADE PLATE SPACER	.6
CLIP SPACERS	.6
REBAR SAFETY CAPS	.6
PLASTIC LEVELLING SHIMS	.7
CIRCULAR WIRE SPACERS	.7
CONTINUOUS WIRE CHAIR	.7

2 reinforcement

CUT & BENT REINFORCED REBAR	.8
REINFORCED CONTINUITY SYSTEMS	.9
STANDARD RANGE CONFIGURATIONS	.9
STANDARD RANGE DIMENSIONS	.10
MBT COUPLES	.11
SHEAR LOAD CONNECTORS	.11
BALCONY CONNECTORS	.13
REINFORCED MESH	.15

3 formwork system

TIE ROD BAR	.16
WING NUTS	.16
WALER PLATES	.16
HEXAGON NUTS	.16
TIE ROD CONNECTORS	.16
WATER BARRIER CONNECTORS	.17
WELDABLE ANCHOR	.17
ROCK ANCHOR	.17
CAST-IN ANCHOR	.17
TIE ROD SLEEVE	.17
PLASTIC CONES	.18
FLUPP PLUGS	.18
ADOPLUG	.18

4 clayboard

CLAYBOARD	.19
-----------	-----

5 formwork & slab accessories

PLASTIC CHAMFER EDGE PROFILES	.20
PLASTIC CHAMFER EDGE PROFILES with FLANGE	.20
VOID FORMERS	.20
TWO PART TOP CRACK INDUCER	.20
BASE CRACK INDUCER	.21
ALUMINIUM T-BAR	.21
SIDE SLAB STRIP	.21
PVC FORMWORK TAPE	.21
FOAM GROUT CHECK TAPE	.22
D-BONDING AGENT	.22
DOWEL BARS	.22
DOWEL BAR SLEEVES	.22

DOWEL BAR EXPANSION CAPS	.22
TYING WIRE	.23
REELFIX	.23
WIRE CUTTERS	.24
DOUBLE LOOP TIES	.24
ADJUSTABLE PLASTIC SCREED CHAIRS	.24
ADJUSTABLE METAL SCREED CHAIRS	.24
POLYSTYRENE BOLT BOXES	.25
WAXED CARDBOARD BOLT BOXES	.25
EXPANDED METAL BOLT BOXES	.25
HOLDING DOWN BOLTS	.25
KICKERLESS FIXINGS	.26
FROST BLANKETS	.26
HYRIB	.26

6 permanent formwork

BLACK BEAM - SHEETS	.27
BLACK BEAM - STRIPS	.27
BLACK BEAM - CUT and SCORED	.27
COLUMN FORMERS	.28

7 screed rail

FLAT TOP CONCRETE SCREED RAIL	.29
METAL TOP CONCRETE SCREED RAIL	.29
PERMASTEEL SCREED RAIL – TYPE 1	.29
PERMASTEEL SCREED RAIL – TYPE 2	.29
BETAJOINT	.30
DIAMOND DOWEL	.30
BETASTRIP VOID FORMER	.30

8 polythene membranes, geotextiles & waterproofing

WATERPROOFING & GAS MEMBRANES	.31
POLYTHENE (DAMP PROOF MEMBRANE)	.33
TEMPORARY POLYTHENE SHEETING (TPS)	.33
GEOTEXTILE MEMBRANE	.33

9 water bar

CENTRE BULB (Internal Expansion)	.34
PLAIN WEBB (Internal Construction)	.34
FLAT DUMBELL	.34
EXTERNAL EXPANSION	.34
SUPERCASST REARGAURD	.35
RX101 WATERSTOP	.35
HEAVY DUTY WATER BAR	.35
WATER BAR KICKER	.35
HYDROTITE	.35

10 foam, fibreboard & sealants

CONSTRUCTAFOAM SHEETS	.36
CONSTRUCTAFOAM CUT STRIPS	.36
FIBREBOARD SHEETS	.36
FIBREBOARD STRIPS	.36
ROUND POLYTHENE CORD	.37
POLYSTYRENE SHEETS	.37
AEROFILL SHEETS	.37
POLYSTYRENE VOID FORMERS	.37
KORKPAK	.38
SEALANTS	.39

contents

11 concrete chemicals

ADOLEASE CHEMICAL RELEASE AGENT	40
ADOLEASE PREMIUM CHEMICAL RELEASE AGENT	40
ADOCURE STANDARD	40
ADOCURE STANDARD T	40
ADOCURE WW	40
ADOCURE WWT	41
ADOCURE SUPER	41
ADOCURE SUPER T	41
ADOCURE SEALER	41
ADOSTRIKE	41
ADOSTRIKE PREMIUM	42
ADOTUF	42
ADOTARD TOP FACE	42
ADOTARD MOULD FACE	42
ADOCOAT	42
ADOFILL	43
ADOLAC	43
ADOWAX	43
STYROKLENS	43
SPRAYERS	43
RHEOFINISH 211	43

12 grouts

CONBEXTRA GP	44
NON SHRINK GROUTS	44
HIGH FLOW CONSTRUCTION GROUTS	44
EXPANDING GROUT ADMIXTURE	44
AGGREGATE FILLED GROUT	45
EPOXY POURABLE ANCHOR GROUTS	45
FLO - GROUT	45
RESIN ANCHOR SYSTEM	46

13 repair mortars

HIGH-BUILD EPOXY MORTARS	47
EPOXY FAIRING COAT	47
POLYESTER RESIN COMPOUNDS	47
POLYESTER BEDDING MORTAR	47
STANDARD REPAIR MORTARS	48
LIGHTWEIGHT REPAIR MORTARS	48
RENDEROC FC (Fairing Coat)	49
EPOXY BONDING AGENTS	49
EMERGENCY PATCH REPAIRS	49

14 brickwork accessories

WINDPOST DESIGN	50
PARAPET AND SPANDRELPOSTS	50
ST1	51
SD1	51
SPS	51
PPS	51
HRT4	52
RT2	52
SPB	52
SPV	52
SDB	53
SDV	53
PPB	53
PPV	53
DEBONDING SLEEVE	53
SLIDING ANCHORS	54
HEAD RESTRAINTS	54
CAST-IN CHANNELS	55
SURFACE-FIXED CHANNELS	55
FIXING TO CHANNELS	56
RESTRAINT FIXINGS	56
UNDERFLOOR TELESCOPIC VENT SYSTEM	56
CAVITY WEEP HOLES	56

15 damp proof course

HYLOAD DPC	57
RUBERCLOSE INSULATED DPC	57
DPC LAP ADHESIVE	57
DPC LAP MASTIC	57

16 cavity closers

CLOSER SELECTOR	58
TERMS & CONDITIONS	59

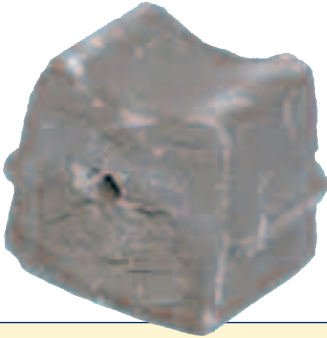
MCS stockist for these leading brands and more:



Distributors for metal decking & accessories

SINGLE COVER CONCRETE SPACER BLOCKS

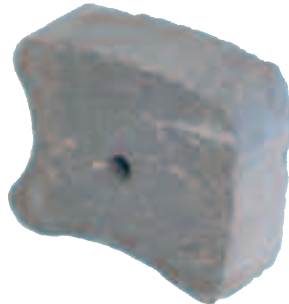
Heavy Duty Flat Based Single Cover Concrete Spacers to give accurate cover to reinforcement in horizontal and vertical applications.



MCS CODE	COVER mm	PACK SIZE
CB15	15	1000
CB20	20	1000
CB25	25	500
CB30	30	500
CB35	35	250
CB40	40	250
CB45	45	250
CB50	50	200
CB55	55	200
CB60	60	200
CB75	75	100

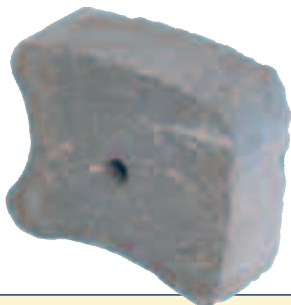
DOUBLE COVER CONCRETE SPACER BLOCKS

Flat Based Double Cover Concrete Spacer Blocks provide a solid support in heavy duty horizontal applications.



MCS CODE	COVER mm	PACK SIZE
CB25/30	25, 30	500
CB35/55	35, 55	200
CB40/50	40, 50	200
CB60/75	60, 75	100
CB65/70	65, 70	100

Arch Based Double Cover Concrete Spacer Blocks give minimal contact with formwork and are ideal for vertical applications.

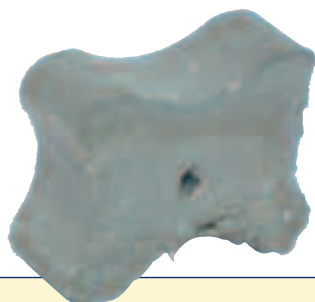


MCS CODE	COVER mm	PACK SIZE
CBA15/20	15, 20	1000
CBA25/30	25, 30	500
CBA30/35	30, 35	250
CBA30/40	30, 40	250
CBA35/45	35, 45	250
CBA40/50	40, 50	200
CBA45/55	45, 55	200
CBA50/60	50, 60	200
CBA65/70	65, 70	100
CBA75*	75	100

* SINGLE COVER ARCHED BASE

TRIPLE COVER CONCRETE SPACER BLOCKS

Arch Based Triple Cover Concrete Spacer Blocks give minimal contact with formwork and are ideal for vertical applications.



MCS CODE	COVER mm	PACK SIZE
CB20/25/30	20, 25, 30	500
CB35/40/50	35, 40, 50	200

spacers for reinforcement

MESHMAN CONCRETE SPACERS

Castellated Concrete Spacer for use with mesh reinforcement. Large base is ideal for use on plastic membranes, sand etc.

MCS CODE	COVER mm	PACK SIZE
MM40/50	40, 50	100



CONCRETE SQUARE BAR

Heavy Duty Concrete Bars enable fast placement of heavy reinforcement. Ideal for use on plastic membranes, sand etc.

Can be used to accurately separate shutters in walls and beams.

Can also be used as kickers in kicker less construction.

Bars supplied in 1m lengths.



MCS CODE	COVER mm	No. (LM)/ PALLET
CSB25	25	500
CSB30	30	500
CSB35	35	400
CSB40	40	300
CSB45	45	250
CSB50	50	250
CSB60	60	150
CSB75	75	100
CSB100	100	60

PLASTIC TRACK SPACER

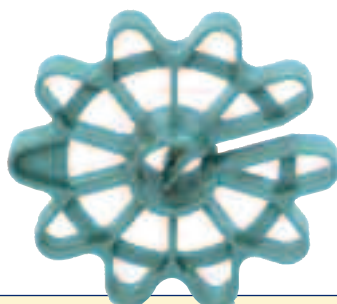
Continuous Plastic Track is ideal for supporting bottom reinforcement in suspended slabs, sloped or curved structures. Supplied in 2M lengths.



MCS CODE	COVER mm	PACK SIZE
PTS15	15	100
PTS20	20	100
PTS25	25	100
PTS30	30	100
PTS35	35	50
PTS40	40	50
PTS50	50	50

PLASTIC WHEEL SPACER

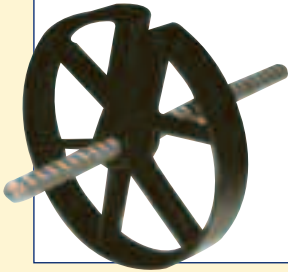
Light but robust wheel spacer for vertical surfaces. Ideal for links in beams and columns. Minimum contact with formwork.



MCS CODE	COVER mm	BAR SIZE mm	No. /PACK
NW15/12	15	4-12mm	2000
NW20/12	20	4-12mm	1000
NW25/12	25	4-12mm	1000
NW25/20	25	8-20mm	500
NW30/12	30	4-12mm	500
NW30/20	30	8-20mm	500
NW40/12	40	4-12mm	500
NW40/20	40	8-20mm	250
NW50/12	50	4-12mm	250
NW50/20	50	8-20mm	250
NW60/28	60	8-28mm	100

PLASTIC PILE CAGE SPACER

Designed for use in pile cages and diaphragm, can be fitted to helicals or main bars.



MCS CODE	COVER mm	BAR SIZE mm	WIDTH	No. /PACK
PCS40/12	40	6-12mm	10	100
PCS50/12	50	6-12mm	10	100
PCS45/12	45	6-12mm	30	100
PCS50/12	50	6-12mm	30	100
PCS50/20	50	16-20mm	30	80
PCS70/20	70	16-20mm	30	80
PCS75/20	75	16-20mm	30	80

GRADE PLATE SPACER

Grade Plate Spacers large base area is ideal for use on membranes or soft ground and bar diameters of up to 20mm can be accommodated.



MCS CODE	COVER mm	PACK SIZE
GP25/30	25/30	250
GP40/50	40/50	250
GP55/65	55/65	150
GP65/75	65/75	125
GP90/100	90/100	100

CLIP SPACERS

A general purpose clip on spacer which can be fixed horizontally or vertically. Heavy Duty, designed for substantial bar loads



MCS CODE	COVER mm	BAR SIZE mm	No. /PACK
NC15/16	15	4-16mm	2000
NC20/16	20	4-16mm	1000
NC25/16	25	4-16mm	1000
NC30/16	30	4-16mm	1000
NC40/16	40	4-16mm	500
NC50/16	50	4-16mm	500
NP20/20	20	8- 20mm	1000
NP25/20	25	8- 20mm	1000
NP30/20	30	8- 20mm	1000
NP40/20	40	8- 20mm	500
NP50/20	50	8- 20mm	500

REBAR SAFETY CAPS

Safety Caps to fit over the end of Reinforcement bar to prevent injury



MCS CODE	SIZE mm	No. /PACK
RSC8/16	8-16mm	250
RSC16/32	16-32mm	250
RSC40/50	40-50mm	100

spacers for reinforcement

PLASTIC LEVELLING SHIMS

Used for alignment and levelling of heavy section steel plate and pre cast concrete sections

Available as plain flat section or horseshoe to fit around connecting bolts

PLAIN SQUARE

MCS CODE	THICKNESS mm	QTY/ PACK
LSP2	2	250
LSP3	3	250
LSP5	5	125
LSP7	7	125
LSP9	9	125

H PROFILE

MCS CODE	THICKNESS mm	QTY/ PACK
LSH2	2	250
LSH3	3	250
LSH5	5	125
LSH7	7	125
LSH9	9	125



CIRCULAR WIRE SPACERS

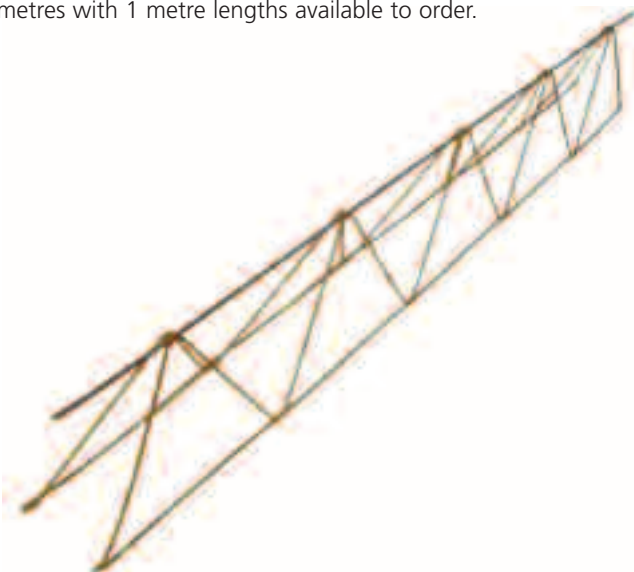
Manufactured from hard drawn wire, Circular Wire Spacers enable easy and economical placement of mesh reinforcement. Supplied in flat strips they can be quickly formed into a circle on site.



MCS CODE	THICKNESS mm	No./ PACK
CS60	60	20
CS75	75	20
CS90	90	20
CS105	105	20
CS120	120	20
CS135	135	20
CS150	150	20
CS165	165	20
CS180	180	20
CS200	200	20

CONTINUOUS WIRE CHAIR











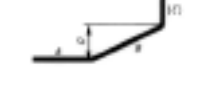


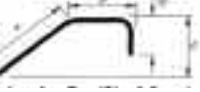
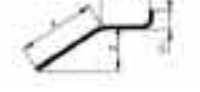
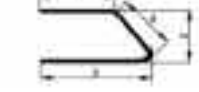




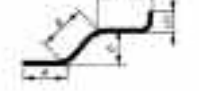











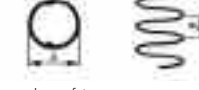

Manufactured from hard drawn wire, Continuous Wire Chairs are ideal for spacing top and bottom layers of mesh and can also be used as dowel bar supports. Supplied in standard lengths of 2 metres with 1 metre lengths available to order.



MCS CODE	HEIGHT mm	LM/ PACK
HC50/2	50	50
HC60/2	60	50
HC75/2	75	50
HC90/2	90	50
HC105/2	105	50
HC120/2	120	50
HC135/2	135	50
HC150/2	150	50
HC165/2	165	50
HC180/2	180	50
HC200/2	200	50
HC220/2	220	50
HC230/2	230	50
HC240/2	240	50
HC250/2	250	50
HC270/2	270	50
HC280/2	280	50
HC300/2	300	50

Bigger sizes available

CUT & BENT REINFORCED REBAR

$(L) = A$  00	$(L) = A$ <i>A = Stock length</i>  01	$L = A+(B)-0.5R-d$  11	$L = A+(B)-0.43R-d$  12
$L = A+0.57B-(C)-1.6d$  13	$L = A+(C)-4d$  14	$L = A+(C)$  15	$(L) = A+B+(C)-r-2d$  21
$(L) = A+B+(C)+(D)-1.5r-3d$  22	$(L) = A+B+(C)-r-2d$  23	$(L) = A+B+(C)$  24	$(L) = A+B+(E)$  25
$(L) = A+B+(C)$  26	$(L) = A+B+(C)-0.5r-d$  27	$(L) = A+B+(C)-0.5r-d$  28	$(L) = A+B+(C)-r-2d$  29
$(L) = A+B+C+(D)-1.5r-3d$  31	$(L) = A+B+C+(D)-1.5r-3d$  32	$(L) = 2A+1.7B+2(C)-4d$  33	$(L) = A+B+C+(E)-0.5r-d$  34
$(L) = A+B+C+(E)-0.5r-d$  35	$(L) = A+B+C+(D)-r-2d$  36	$(L) = A+B+C+D+(E)-2r-4d$  41	$(L) = A+B+C+D+(E)-2r-4d$  44
$(L) = A+2B+C+(E)$  46	$(L) = 2A+B+2C+1.5r-3d$  49	$(L) = 2(A+B+(C))-2.5r-5d$  51	$(L) = A+B+C+D+2(E)-2.5r-5d$  56
$(L) = 2A+3B+2(C)-3r-6d$  63	$(L) = A+B+C+2D+E+(F)-3r-6d$  64	$(L) = A$  67	$(L) = \pi(A-d)+B$  75
$(L) = \pi C(A-d)$  77 <small>C = number of turns</small>	$(L) = A+2B+C+(D)-2r-4d$  98	<i>All other shapes.</i> <i>A dimensional sketch of the shape shall be given on the schedule</i> 99	

REINFORCEMENT CONTINUITY SYSTEMS

The Eazistrip Reinforcement Continuity System is a quick and easy to install method of maintaining continuity and reinforcement at construction joints in concrete. It consists of a galvanised steel casing with a dimpled surface to provide an effective concrete bond. Pre-bent bars are housed within the casing and are enclosed by a galvanised steel cover. Each end of the unit is sealed with a polystyrene block in order to prevent the ingress of concrete.

The complete unit is nailed to the formwork. Alternatively it can be wired back to the main reinforcement cage. The concrete is then cast. After striking the formwork, the steel cover is removed and the bars are straightened, ready for lapping onto the main reinforcement using an Eazistrip re-bending tool.

The steel casing remains embedded in the wall and is filled with concrete when the next section is poured, the dimpled surface providing an efficient key.

Use of the Eazistrip system offers many benefits over conventional joint construction, including the simplification of formwork design and removal of the need to drill shuttering. This contributes to the acceleration of the construction process. As the bars remain enclosed within the casing until required, they are protected and the risk of injury from projecting bars is minimised. Easy to use, the system requires no on site training in order to carry out installation. The Eazistrip system is potentially suitable for use in any construction joint in concrete, but the most commonly found applications include: **Floor slabs, walls, stairwells, corbels, diaphragm walls, slipforms and brick support ledges.**

Simplicity:

- Ease of specification and formwork design.
- Installation by unskilled labour.
- Wide range of standard units

Speed:

- Rapid delivery from stock
- Quick to fit
- Faster pour schedule.

Efficiency:

- No costly form work alterations
- No scabbling to joint surfaces
- No wastage

Quality:

- No grout loss
- Perforated case for
 - Prevention of honeycombing
 - Excellent bond to concrete

Safety:

- No projecting reinforcement

STANDARD RANGE CONFIGURATIONS

Type 60



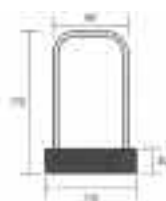
Type 80



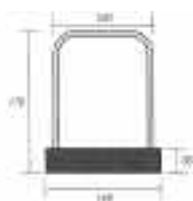
Type 110



Type 110



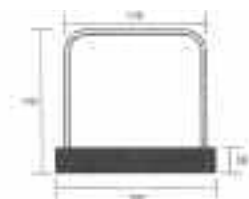
Type 140



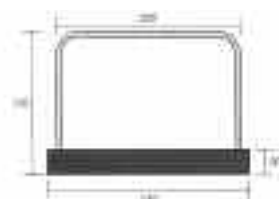
Type 160



Type 190



Type 240



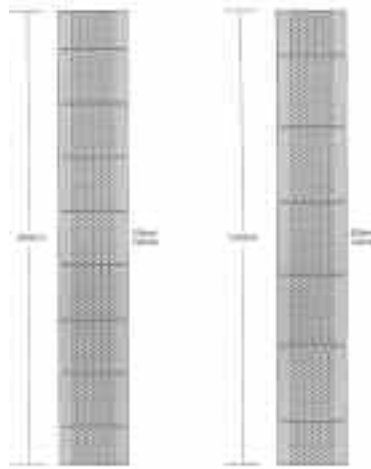
STANDARD RANGE CONFIGURATIONS



Unit will be supplied as a double box when stirrup width exceeds 220mm

Note: Boxes containing 16mm bars are nominally 40mm-50mm deep.

On 16mm \varnothing Type U boxes, the stirrup may be achieved using two shape code 21 bars. These are referenced DH.



*Other centres are available

STANDARD RANGE DIMENSIONS

Part No.	Box Width mm	Box Length mm	Rebar Dia mm	Centres mm	Stirrup Height mm	Stirrup Width mm	Leg Length mm	Bars / Box
60H 10x150	60	1250	10	150	170	60	410	8
60H 10x200	60	1250	10	200	170	60	410	6
80H 10x150	80	1250	10	150	170	60	410	8
80H 10x200	80	1250	10	200	170	60	410	6
80H 12x150	80	1250	12	150	170	72	500	8
80H 12x200	60	1250	12	200	170	72	500	6
110H 16x150	110	1250	16	150	155	96	650	8
110H 16x200	110	1250	16	200	155	96	650	6
110U 10x150	110	1250	10	150	170	90	410	8
110U 10x200	110	1250	10	200	170	90	410	6
110U 12x150	110	1250	12	150	155	90	340	8
110U 12x200	110	1250	10	200	155	90	500	6
140U 10x150	140	1250	10	150	170	120	410	8
140U 10x200	140	1250	10	200	170	120	410	6
140U 12x150	140	1250	12	150	170	120	500	8
140U 12x200	140	1250	12	200	170	120	500	6
160U 10x150	160	1250	10	150	170	140	410	8
160U 10x200	160	1250	10	200	170	140	410	6
160U 12x150	160	1250	12	150	170	140	500	8
160U 12x200	160	1250	12	200	170	140	500	6
160DH 16x150	160	1250	16	150	155	90	340	8
160DH 16x200	160	1250	16	200	160	140	410	6
190U 10x150	190	1250	10	150	170	170	410	8
190U 10x200	190	1250	10	200	170	170	410	6
190U 12x150	190	1250	12	150	170	170	500	8
190U 12x200	190	1250	12	200	170	170	500	6
190DH 16x150	190	1250	16	150	170	170	650	8
190U 16x200	190	1250	16	200	170	170	650	6
240U 10x150	240	1250	10	150	170	220	410	8
240U 10x200	240	1250	10	200	170	220	410	6
240U 12x150	240	1250	12	150	170	220	500	8
240U 12x200	240	1250	12	200	170	220	500	6
240U 16x150	240	1250	16	150	170	220	650	8
240U 16x200	240	1250	16	200	170	220	650	6

MBT COUPLERS

MBT couplers can be used for joining reinforced bars from 12mm to 40mm diameter in many situations from new construction to repair and remedial work. MBT couplers are easy to install, needing no specialised equipment or trained personnel on site. Bars are positioned into the coupler and the bolts tightened until the heads shear off, giving an instant visual check of correct installation.

Availability of Couplers

BAR DIAMETER	10	12	14	16	20	25	28	32	34	40
External Diameter d	33.4	33.4	42.2	42.2	48.3	54.0	66.7	71.0	75.0	81.0
Total Length l	100	140	160	160	204	258	312	312	356	484
Socket Size A/F (ins)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{3}{4}$
No. of Bolts	4	6	6	6	8	8	10	10	10	14
Approx Weight (kg)	0.52	0.72	1.25	1.25	1.96	3.00	5.80	6.50	8.72	11.30
Part No.	ET10	ET12	ET14	ET16	ET20	ET25	ET28	ET32	ET34	ET40

Typical Coupler Application Guide

APPLICATION	Tapered Thread	Bartec	Bar X-L	MBT
Wall to slab connection	✓	✓	✓	
Wall to pre-cast beam connection	✓	✓	✓	
Column construction	✓	✓	✓	✓
Extension / repairs to existing structures				✓
Pre-cast element to pre-cast element connection	✓	✓	✓	✓
Closing of access openings	✓	✓	✓	✓
Rebar cage pre-fabrication	✓	✓	✓	✓
Hook bars to pile connection				✓
Fatigue applications			✓	✓
Bar end terminations		✓		✓

Continuity Bars and MBT Couplers available from stock. Refer to channel in reinforcement section on page 53.

SHEAR LOAD CONNECTORS

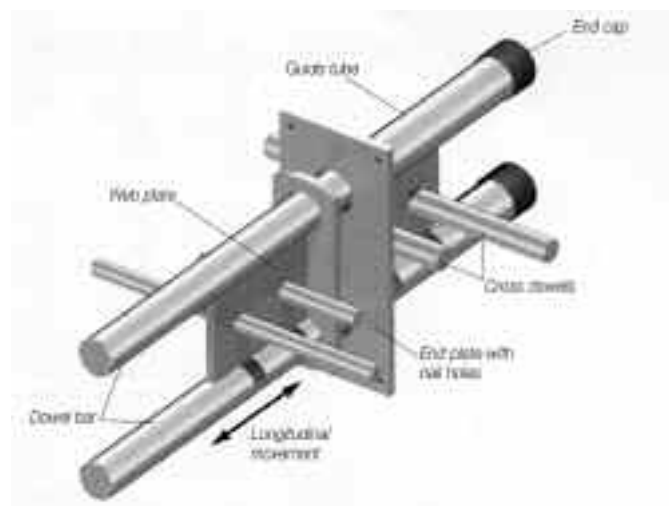
The DSD range of connectors offers significant advantages over conventional single dowels. Each connector is a two-part assembly comprising a sleeve and dowel component. Installation is a fast and accurate process, drilling of either formwork or concrete is not required. The sleeve is simply nailed to the formwork ensuring subsequent alignment with the dowel, essential for effective movement.

They are manufactured from stainless steel to ensure a high degree of corrosion resistance with no requirement for additional protection.

Free software is available from Ancon that simplifies the design of movement joints in reinforced concrete. For a given application, Ancon's design program will calculate the size and quantity of shear load connectors required, the edge distance and spacings at which they should be installed, and details of the local reinforcement.

ANCON DSD SHEAR CONNECTORS

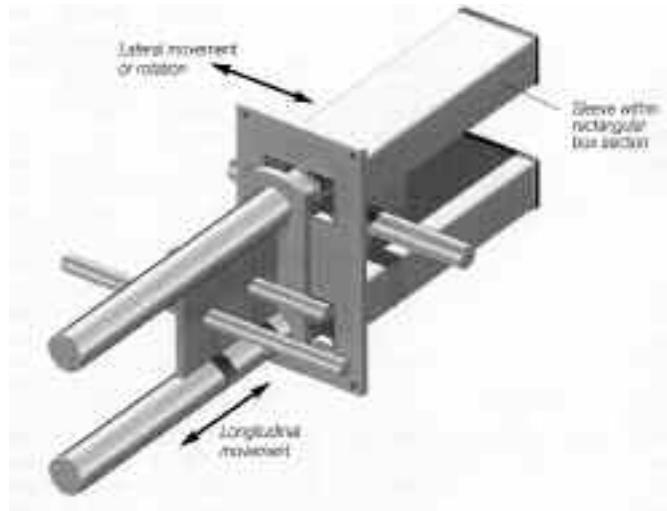
The Ancon DSD is the original two-part, double dowel, shear load connector. The dowel component can move longitudinally within the sleeve to accommodate movement. The connector is available in ten standard sizes and can transfer loads from around 20kN to over 450kN. The larger connectors can be used in joints up to 60mm wide. Larger joints can be accommodated using special dowels. Please contact Ancon's Technical Department for further information.



SHEAR LOAD CONNECTORS

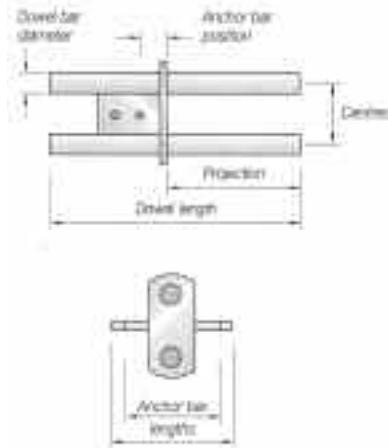
ANCON DSDQ SHEAR CONNECTORS

The Ancon DSDQ shear load connector uses the same dowel component as the Ancon DSD, but the cylindrical sleeve is contained within a rectangular box section in addition to allow lateral movement. Nine standard sizes can be used to transfer loads from around 30kN to over 450kN



DIMENSIONS

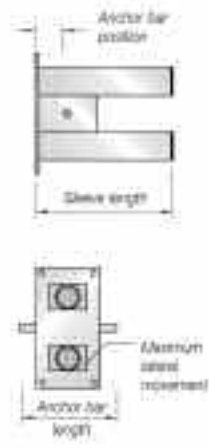
Dowel Component



DSD Sleeve



DSDQ Sleeve



Ref	Dowel Component						DSD Sleeve			DSDQ Sleeve				
	DSD Overall Length	DSDQ Overall Length	Dowel Dia	Dowel Centres	Dowel Projection	Anchor Bar Projection	Anchor Bar Lengths	Overall Length	Anchor Bar Projection	Anchor Bar Lengths	Overall Length	Anchor Bar Position	Anchor Bar Length	Lateral Mov't
25*	250	250	14	40	120	31	80/140	120	28	80/140	-	-	-	-
30	260	260	16	48	120	31	80/140	120	28	80/140	140	33	100	26
50	280	280	18	50	130	31	80/160	135	28	80/160	160	33	100	25
65	300	300	20	65	150	31	80/160	155	29	80/160	175	33	150	21
75	340	340	22	75	150	33	100/180	155	31	100/180	175	33	150	20
100	400	400	30	100	210	34	100/200	210	36	100/200	235	54	200	41
130	470	470	35	105	260	34	100/200	265	36	100/200	275	59	200	36
150	550	550	42	120	270	54	100/240	275	41	100/240	305	54	210	21
400	660	660	52	160	330	70	150/300	335	70	150/300	350	64	350	27
450	690	690	65	180	360	80	180/350	370	80	180/350	400	89	350	54

Notes: *DSD only. All dimensions are in millimetres (mm)

reinforcement

ANCON ISOLAN INSULATED CONNECTORS

In applications such as balconies, where concrete slabs pass through the building envelope, a cold bridge is created that can result in significant heat loss (fig 1).

The Ancon Isolan system is a structural component used to join external concrete balconies to internal floor slabs. It provides continuity to both the concrete reinforcement and the thermal insulation of the wall protecting the building against the effects of cold bridging. (fig 2).

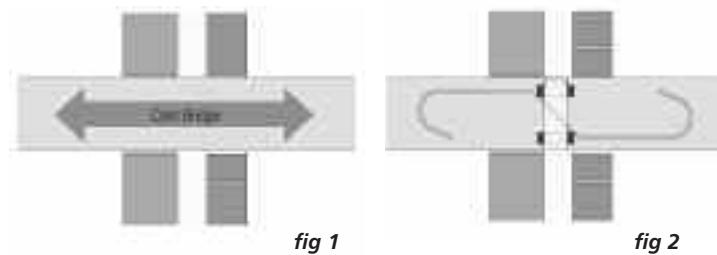


fig 1

fig 2

Standard Isolan systems, comprising rigid CFC-free polystyrene insulation and stainless steel shear reinforcement, suit most depths of cantilever and simply supported balconies. The various systems allow the transfer of all loads in structural concrete i.e. moment, shear compression and tension, and are suitable for straight runs and both internal and external corners.

Special configurations can be manufactured to suit specific project requirements including curved or stepped balconies.

In addition to balconies cast in-situ, Ancon Isolan systems can be used in precast balconies. For such applications, tension and compression bars must be scheduled and installed at the time of casting. Please contact Ancon for more information.

SYSTEM BENEFITS

Ancon Isolan connectors use conventional reinforcing bars to provide the tension and compression reinforcement. When compared to systems where this reinforcement is an integral component, the Ancon Isolan solution can provide substantial cost savings and simply specification, scheduling, transportation, handling and installation.

U-VALUE

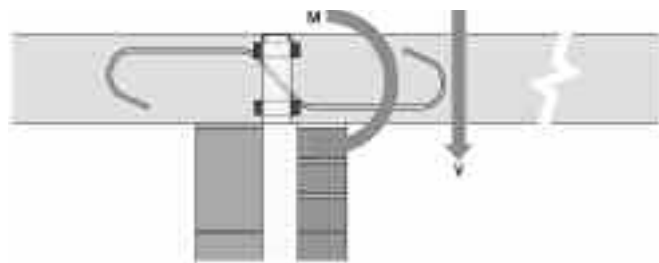
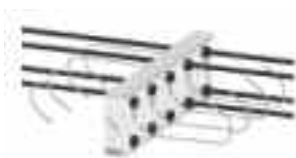
The Isolan system has a typical U-value of 0.3 W/m²K.

ISOLAN SYSTEMS

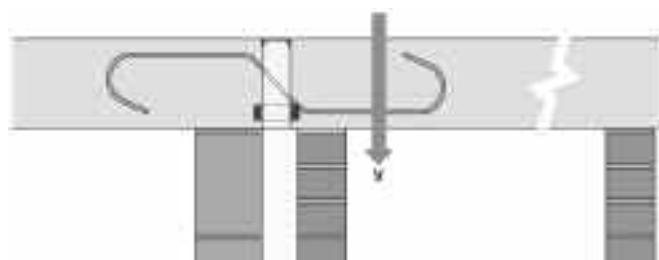
Standard Isolan systems are available in five heights to suit different depths of balcony i.e. 160, 180, 200, 220 and 240mm, and are supplied complete with stainless steel shear reinforcement. Tension and compression reinforcement to be supplied by others.

MV SYSTEM

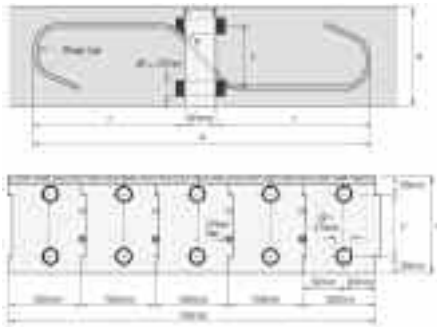
The Ancon Isolan MV system is used for the transfer of movement and shear forces in cantilevered balconies.

**V SYSTEM**

The Ancon Isolan V system is used for the transfer of shear forces in simply supported balconies.



SYSTEM COMPONENTS



HEIGHT D (mm)	HEIGHT Y (mm)	LENGTH B SHEAR BAR 6mm DIA.	LENGTH B SHEAR BAR 8mm DIA.	LENGTH B SHEAR BAR 10mm DIA.	ANGLE 0°
160	88	530	670	810	39°
180	108	530	670	810	44°
200	128	530	670	810	47°
220	148	530	670	810	53°
240	168	530	670	810	57°

Notes: Shear bar length (b) tolerance +/- 10mm

ISO-ELEMENT

The ISO-Element is 60mm thick, CFC-free, rigid white polystyrene insulation in a standard length of 750mm. It is available in five heights (160, 180, 200, 220 and 240mm) to suit different depths of balcony.

SHEAR REINFORCEMENT

The shear reinforcement is duplex stainless steel grade 1.4462 and is available in three diameters (6, 8 and 10mm) as standard. In addition to the standard systems, this reinforcement can be bent into other required shapes outside the polystyrene insulation element.

TUBES

Polypropylene tubes with a 27mm internal diameter are located at pre-determined positions in the ISO-Element to allow for the passage of tension and compression reinforcing bars.

RAIL

A high density polypropylene rail is located on the top edge of the ISO-Element to protect the insulation.

TENSION/COMPRESSION REINFORCEMENT (supplied by others)

Reinforcement used for tension and compression bars to be grade 500B to BS4499: 2005 and supplied by others.

FIRE PROTECTION

The Isolan system offers fire resistance to DIN 4102: Fire behaviour of building materials and components. Fire protection can be provided by adding Duripanel fire resistant strips to the base or to the top and base of the ISO-Element. The strips are available in 18, 28 or 36mm thickness providing 30, 60 or 90 minute fire resistance respectively. Examples of how these strips are referenced are 1R30 for a 30 minute strip fixed to the base and 2R90 for a 90 minute strip fixed to the top and base. When specifying and ordering, these references should be added as a suffix to the Isolan system, for example 4MV6-200-5Ø12T/5Ø16C-1R60.

The polythene rail is omitted from the ISO-Element if these strips are employed to the top. For further information contact Ancon's Technical Services Team.

CORROSION RESISTANCE



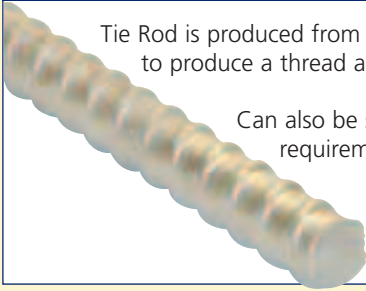
The Ancon Isolan system has been engineered to provide a high resistance to corrosion. The shear reinforcement is stainless steel and the carbon steel tension and compression reinforcement passing through the insulation unit is encased in polypropylene tubes which fill with concrete fines at the time of casting. This prevents water and oxygen from reaching the bars, thus providing corrosion protection.



REINFORCED MESH

Electronically cross welded mesh manufactured to meet BS 4483 from cold-reduced wire complying to BS 4482. Standard sheets to 4.8m x 2.4m

BS Ref	Mesh Size Nominal Pitch of Wires		Wire Sizes		Cross Sectional area per metre		Nominal Weight per m ²	Sheets per tonne (approx)	Sheet Weight (kg)	Sheets per bundle	Sq mtr per tonne
	Main (mm)	Cross (mm)	Main (mm)	Cross (mm)	Main (mm)	Cross (mm)					
A393	200	200	10	10	393	393	6.16	15	70.96	18	162.34
A252	200	200	8	8	252	252	3.95	22	45.5	28	253.16
A193	200	200	7	7	193	193	3.02	29	34.79	34	331.13
A142	200	200	6	6	142	142	2.22	40	25.57	46	450.45
B1131	100	200	12	8	1131	252	10.9	8	125.57	10	91.74
B785	100	200	10	8	785	252	8.14	11	93.57	14	122.85
B503	100	200	8	8	503	252	5.93	15	68.31	18	168.63
B385	100	200	7	7	385	193	4.53	20	52.19	24	220.75
B283	100	200	6	7	283	193	3.73	24	42.97	30	268.1
B196	100	200	5	7	196	193	3.05	29	35.14	36	327.87
C785	100	400	10	6	785	70.8	6.72	13	77.41	16	148.81
C636	100	400	9	6	636	70.8	5.55	16	63.94	20	180.18
C503	100	400	8	5	503	49.0	4.34	20	50.00	26	230.41
C385	100	400	7	5	385	49.0	3.41	26	39.28	30	293.26
C283	100	400	5	5	283	49.0	2.61	34	30.07	32	383.14
D98	200	200	5	5	98.00	98.00	1.54	57	17.74	60	649.35
D49	100	100	2.5	2.5	49.1	49.10	0.77	113	8.87	50	1298.7

TIE ROD BAR

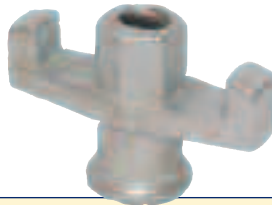
Tie Rod is produced from high yield bar with deformations to produce a thread along the entire length of the bar.

Can also be supplied pre-cut to site requirements.

MCS CODE	Ø mm	LENGTH mm
TR15/6000	15	6000
TR20/6000	20	6000

**WING NUTS**

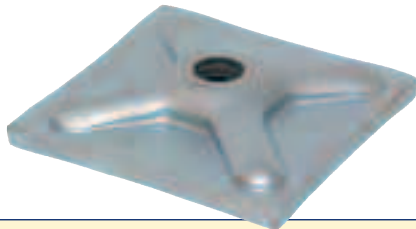
Used in conjunction with Tie Rod and Waler Plates.



MCS CODE	Ø mm	
WN15	15	
WNF15/70	15	FLANGED
WN20	20	

WALER PLATES

For use with Tie Rod and Wing Nuts.



MCS CODE	Ø mm	
WPP15	15	PRESSED
WP15	15	
WP20	20	

HEXAGON NUTS

Hexagon Nut for use in situations where access is restricted and as a lock nut with wing nuts.



MCS CODE	Ø mm
HN15	15
HN20	20

TIE ROD CONNECTORS

Used for joining of tie rods. Central Pin through the connector ensures equal screw-in depth.

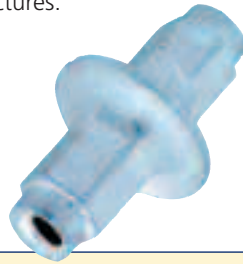


MCS CODE	Ø mm
TRC15	15
TRC20	20

formwork system

WATER BARRIER CONNECTORS

For joining tie rods in water retaining structures.



MCS CODE	Ø mm
WBN15	15
WBN20	20

WELDABLE ANCHOR

Metal anchors which can be welded to RSJ's, steel sheet piling and other metal structures to accept tie rods. Anchors must be welded continuously all the way round.



MCS CODE	Ø mm
WA15	15

ROCK ANCHOR

For securing single sided formwork in concrete or rock walls.

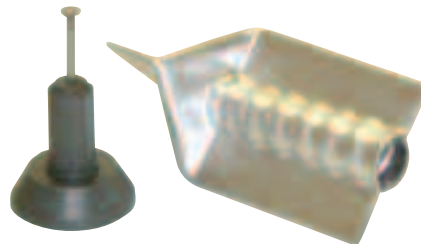
Hole diameter required 35-37mm



MCS CODE	Ø mm
RA15	15

CAST-IN ANCHOR

MCS's cast-in plaster anchor is secured to formwork and cast into the initial pour to provide an anchor for tie-rod in subsequent pours.



MCS CODE	Ø mm
CIA	15

TIE ROD SLEEVE

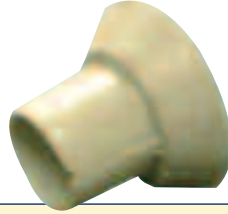


A rigid PVC tube used as an expendable sleeve over tie rods. Facilitates easy removal of tie rods and acts as a spacer to ensure correct width of wall. Supplied in 2M lengths.

MCS CODE	I.D mm	LM/ PACK
TB22	22	100
TB26	26	50

TIE ROD CONES

Used at the ends of tie rod sleeves and can easily be removed after formwork is struck to form a chamfered recess for subsequent grouting.



MCS CODE	Ø mm	No./ PACK
SC22	22	500
SC26	26	500

FLUPP PLUGS

Used with Tie Rod Sleeve to form a watertight seal.



MCS CODE	Ø mm	No./ PACK
FLUPP22	22	1000
FLUPP26	26	500

ADO PLUG

Tie Hole Filler

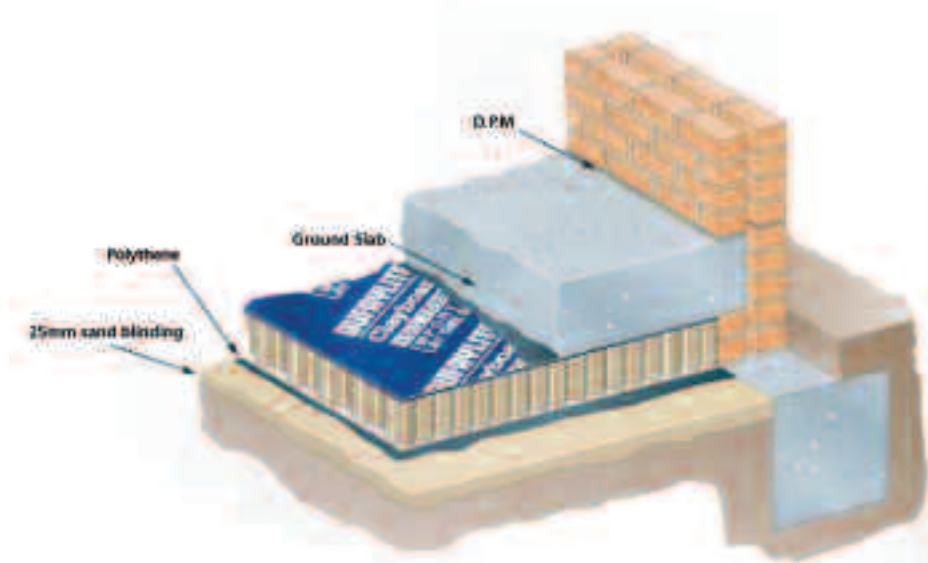


MCS CODE	SIZE OF PACK
ADOPLUG2	2 Kg
ADOPLUG8	8 Kg

CLAYBOARD



- Water is introduced to the Clayboard core once the concrete is set, degrading the Clayboard honeycomb centre which will ultimately lead to the creation of a void
- This space will accommodate clay expansion without exerting undue pressure on the structure above
- The resulting void continues to accommodate natural soil shrinkage and expansion

**What is Clayboard®**

- Clayboard is a unique, environmentally friendly void former and foundation stabiliser developed by Dufaylite.
- Clayboard is a biodegradable honeycomb core set between lightweight polypropylene facings
- When dry, Clayboard is strong enough to support the weight of wet concrete and steel reinforcement

Benefits of Clayboard®

- Helps prevent structural building damage caused by clayheave
- Suitable for all types of structure including, residential, industrial and commercial buildings
- Up to 50% slimmer than other systems saving on soil excavation and removal

- Exerts no undue pressure on ground slabs preserving building integrity
- Strong enough to support poured concrete
- Unique honeycomb core creates calculable void without compression
- Slimness of product is ideal for retrofit underpinning
- Easy to cut and install
- Water is introduced to the Clayboard core once the concrete is set, degrading the Clayboard honeycomb centre which will ultimately lead to the creation of a void
- This space will accommodate clay expansion without exerting undue pressure on the structure above
- The resulting void continues to accommodate natural soil shrinkage and expansion



PLASTIC CHAMFER EDGE PROFILES

Used to form angles and chamfers to corners of columns and beams.

Type CF has no flange. Supplied in 2.5M Lengths.



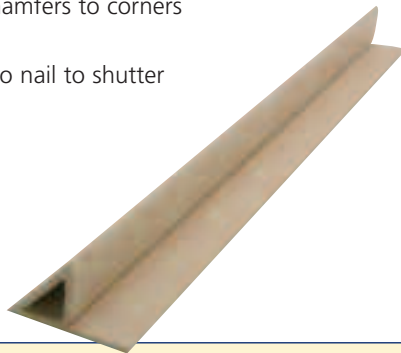
MCS CODE	SIZE mm	LM/ PACK
CF15	15	100
CF20	20	100
CF25	25	100
CF30	30	100

PLASTIC CHAMFER EDGE PROFILES with FLANGE

Used to form angles and chamfers to corners of columns and beams

CFN complete with flange to nail to shutter

Supplied in 2.5m lengths



MCS CODE	SIZE mm	LM/ PACK
CFN15	15	100
CFN20	20	100
CFN25	25	100
CFN30	30	100

VOID FORMERS

A reusable PVC void former for forming grooves in concrete or fixed on top of fibreboards at expansion joints to form a void for sealant filler.

Supplied in full or half profile both 3M long.



MCS CODE	WIDTH mm	DEPTH mm
VF20/10	10	20
VF20/20	20	20
VF25/12	12	25
VF25/25	25	25

TWO PART TOP CRACK INDUCER

A two piece style crack inducer for controlled crack inducement and joint forming. The top section is removed after the concrete has cured leaving a void to receive sealant. Supplied in 5M Lengths



MCS CODE	WIDTH mm	DEPTH mm
CI2/50	10	50
CI2/75	10	75

formwork & slab accessories

BASE CRACK INDUCER

A base crack inducer is used to induce a crack from the base of the slab. Can be used in conjunction with the above top crack inducer or saw cutting. Supplied in 5M Lengths.



MCS CODE	DEPTH mm
CIY/40	50
CIY/75	75

ALUMINIUM T-BAR

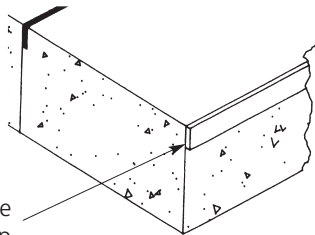
A rigid aluminium T-bar to form a straight void to accept either of the top crack inducers. Can be re-used many times. Supplied in 5M Lengths.



MCS CODE	DEPTH mm
TB50	50
TB75	75

SIDE SLAB STRIP

Used in longitudinal joints in concrete. Supplied in 25M long rolls.



50mm deep x 5mm wide
Side Slab Strip

MCS CODE	WIDTH mm	DEPTH mm
SSS50/5	50	5

PVC FORMWORK TAPE

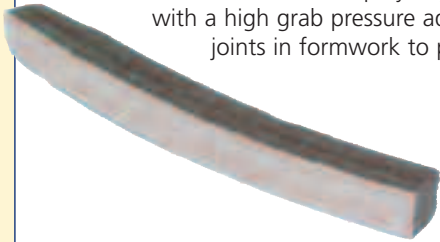
A tough high matt PVC tape used for covering joints in formwork. Excellent adhesive qualities even when residual oil and dust are present.



MCS CODE	WIDTH mm	LENGTH (LM)
FWT50	50	33
FWT75	75	33

FOAM GROUT CHECK TAPE

A Cross linked closed cell polyethylene foam combined with a high grab pressure adhesive. Used for sealing joints in formwork to prevent grout loss.



MCS CODE	SECTION mm	LENGTH (LM)
GCT6/12	12 X 6	10

D-BONDING AGENT

A bituminous based compound, which will harden on on dowel bar. After casting of concrete will allow dowel bars to completely break bond with concrete



MCS CODE	SIZE
DB05	5L
DB25	25L

DOWEL BARS

High Yield or mild steel round bars, supplied with either cropped or sawn ends. Any size of bar available on request.

DOWEL BAR SLEEVES

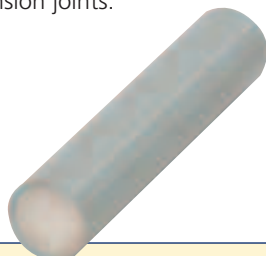
Made from flexible PVC and used as a quick method of debonding dowel bars.



MCS CODE	BAR Ø mm	LENGTH mm	No./ PACK
DBS12/450	12	450	100
DBS16/200	16	200	100
DBS16/300	16	300	100
DBS20/300	20	300	100
DBS25/300	25	300	100
DBS32/375	32	375	100

DOWEL BAR EXPANSION CAPS

A rigid length of tube, with a 25mm compressible filler in one end which, when slipped over a dowel bar, will allow for movement in expansion joints.

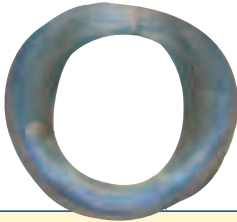


MCS CODE	BAR Ø mm	LENGTH mm	No./ PACK
DC12	12	100	100
DC16	16	100	100
DC20	20	100	100
DC25	25	100	100
DC32	32	100	100

formwork & slab accessories

TYING WIRE

Black Annealed, Stainless Steel and Galvanised available in various gauges and roll sizes.



MCS CODE	FINISH mm	GAUGE mm	WEIGHT KG
TY16	B/A	16	23
TYSS	S/S	18	-

*B/A – Black Annealed

*S/S – Stainless Steel

REELFIX

REELFIX PRODUCT RANGE

All Reelfix products are designed to make tying rebar easier, more efficient and less wasteful. The Reelfix Rapid System is now regarded by Steel Fixers and Safety Advisors as “the way forward” for tying steel on major construction projects whilst the Reelfix Disposable reel, although still used on many projects, has a new fan base amongst small builders and occasional rebar users.



REELFIX REFILLABLE SPOOL

Refill spools are available in both Black Annealed and Stainless 304 tying wire. Spools come pre-loaded with 2kg of perfectly wound, top quality tying wire and are guaranteed not to tangle or snag. Reelfix tying wire is well known amongst Steel Fixers as the premier wire. Always clean, soft and rust free. The spools are made using recycled ABS plastic and are again easily recyclable after use.

Feedback from Steel Fixers prompted the development of the **Reelfix Comfort Pad**. As the name would suggest, the pad is designed to add support to the area where the fixer wears the reel. The pad also prevents the reel from moving on the belt so that the reel stays exactly where the fixer wants it.

REELFIX REEL AND BELT

The **Rapid Reel** is a lightweight, refillable wire dispensing unit designed to be worn in conjunction with the Reelfix belt and comfort pad. Refill spools are locked in the reel by a quarter turn knob. Empty spools can be replaced in less than 20 seconds and without the need for the user to remove his/her belt. For safety reasons, our reel features belt loops on the rear. This ensures that unlike other reels, Reelfix cannot fall off if bumped or caught on scaffold for example. No other reel works as well as the Rapid. That's why it's No1 with the Steel Fixers and Safety Advisors.

The **Reelfix heavy duty belt** is designed for use with our reels and is guaranteed to stand the test of time.



REELFIX DISPOSABLE SYSTEM

Reelfix Disposable reels come pre wound with 2kg of top quality tying wire, either 16 gauge Black Annealed, or 18 gauge Stainless 304 wire.

Although still used on large scale construction projects, the Reelfix Disposable has become a big favourite amongst small builders and occasional rebar buyers.

As the name would suggest, the reels are one use disposable units. The plastic case keeps the wire clean, dry and tidy between uses and the compact design means the reel can be easily stored with other tools and equipment.

Used together with the Reelfix Belt, means the user has two hands free to carry and place rebar or mesh, although the wire has a multitude of other uses. Wire will not tangle and there is absolutely no waste, unlike loose coils of wire.

REELFIX
The Reel Solution

WIRE CUTTERS

Nips for cutting Tying Wire

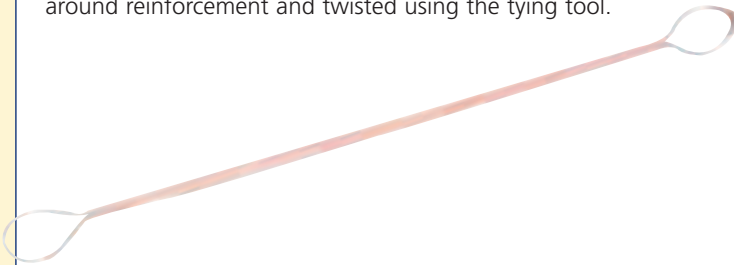


MCS
CODE

Nips

DOUBLE LOOP TIES

Used as an alternative to tying wire. Ties are folded around reinforcement and twisted using the tying tool.



MCS CODE	LENGTH mm	No./ PACK
DLT100	100	1000
DLT150	150	1000
DLT200	200	1000
DLT250	250	1000
DLT300	300	1000
DLT350	350	1000
DLTOOL	-	1

ADJUSTABLE PLASTIC SCREED CHAIRS

Plastic Screed Chairs are supplied in 4 Separate Parts, A Base, A Collar, A Tube and A Saddle.



MCS CODE	SECTION	WEIGHT kg
SCS	SADDLE	100
SCC	COLLAR	100
SCT	TUBE	2LM
SCB	BASE	100

ADJUSTABLE METAL SCREED CHAIRS

A strong adjustable support to give accurate floor slab thickness. Depths assume screed rail will be sunk below top face of slab.



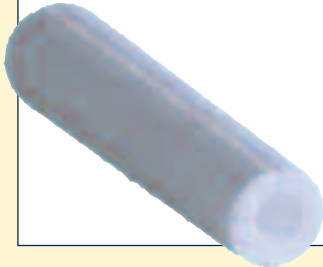
MCS CODE	SLAB DEPTH mm
STA1	125 - 150
STA2	150 - 200
STA3	200 - 300
STA4	300 - 380

* Other sizes available on request

formwork & slab accessories

POLYSTYRENE BOLT BOXES

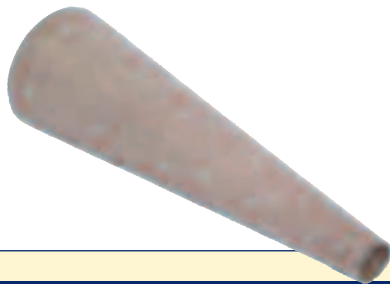
A simple and cost effective method of achieving accurate bolt locations in structural steel stanchions. Polystyrene cones can then be dissolved using STYROKLENS solvent.



MCS CODE	LENGTH mm
PB225	225
PB300	300
PB375	375
PB450	450
PB525	525
PB600	600
PB760	760

WAXED CARDBOARD BOLT BOXES

A waxed cardboard tube that can be cut away when no longer required.



MCS CODE	LENGTH mm
CB229	229
CB305	305
CB380	380
CB457	457
CB534	534
CB610	610

EXPANDED METAL BOLT BOXES

An expanded metal tube that remains rigid during concreting and prevents the transfer of grout on to the holding down bolt.



MCS CODE	DEPTH mm	Ø mm
EBB150/75	150	75
EBB225/75	225	75
EBB300/75	300	75
EBB375/100	375	100
EBB450/100	450	100
EBB600/100	600	100

HOLDING DOWN BOLTS

A full range of holding down bolts are available complete with bolt, washer, nut and square plate washer.



MCS CODE	DEPTH mm	Ø mm
HDB16/300	16	300
HDB16/375	16	375
HDB20/300	20	300
HDB20/375	20	375
HDB20/450	20	450
HDB20/600	20	600
HDB24/375	24	375
HDB24/450	24	450
HDB24/600	24	600
SPW100/10 Square Plate Washer		

KICKERLESS FIXINGS

Removes the need to pour a kicker. The fixing is placed in the fresh concrete and is adjusted to give the correct position for shutters.

**Method of Application**

- 1 Simply push the main body of the Steel Kicker into the newly poured concrete slab on the rough centre line of the wall to be formed
- 2 After the concrete has set the spacer rod can be easily adjusted and then set into position by hammering down into the locking wedge

MCS CODE	WIDTH mm
KF150	150
KF175	175
KF200	200
KF225	225
KF250	250
KF300	300
KF350	350

FROST BLANKETS

For protection of freshly poured concrete from the effects of freezing or high temperatures.

MCS
CODE

FB150

permanent formwork

BLACK BEAM – SHEETS

- Can be bent to form any ground beam detail
- Requires less excavation than traditional shuttering
- Light but rigid so easily handled
- Can arrive on site tailor made ready for installation
- Supplied and Delivered flat pack so requires minimal storage space
- Reduces over dig and spoil cartage
- Easily installed using only a sharp knife and assembled by unskilled labour
- Can be cut to exact dimensions to ensure that perfect cover is maintained
- Minimises concrete wastage
- No shutter stripping, cleaning or release agents are needed
- Easily adapted to suit variations on site, such as pipes, cables and other services

BLACK BEAM – SHEETS

MCS CODE	LENGTH	WIDE
CBF8	4.5m	2.4m
CBF8-1.2X2.4	2.4m	1.2m

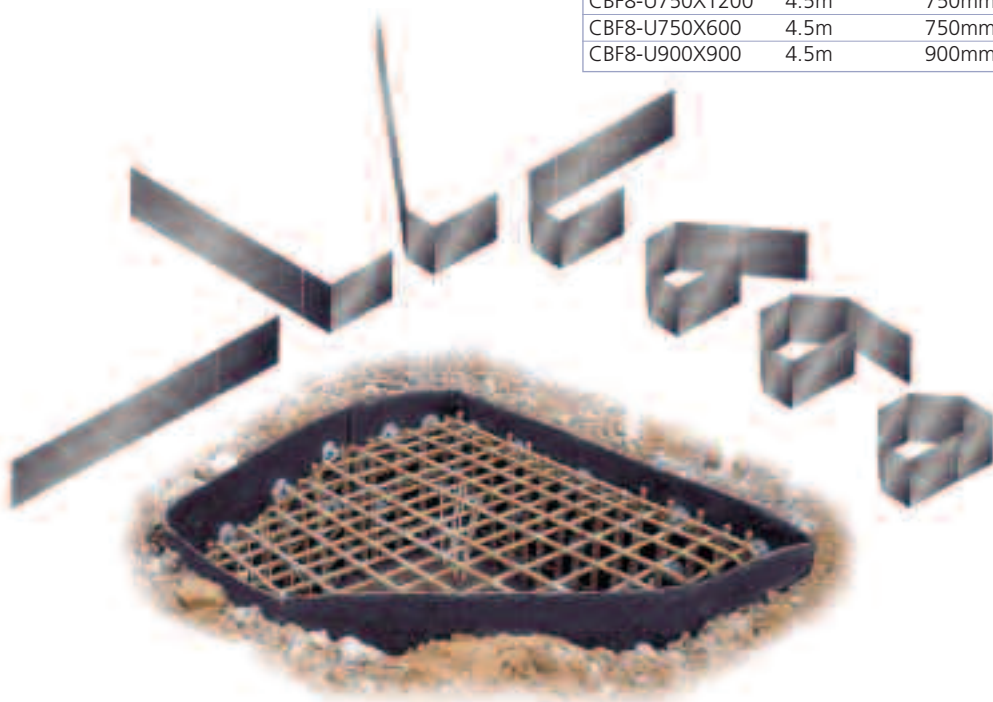
BLACK BEAM – STRIPS

MCS CODE	LENGTH	WIDE
CBF8-1000	4.5m	1000mm
CBF8-1100	4.5m	1100mm
CBF8-1200	4.5m	1200mm
CBF8-450	4.5m	450mm
CBF8-500	4.5m	500mm
CBF8-600	4.5m	600mm
CBF8-700	4.5m	700mm
CBF8-750	4.5m	750mm
CBF8-900	4.5m	900mm

BLACK BEAM – CUT & SCORED

Standard Sheet thickness - 8mm

MCS CODE	LENGTH	WIDE	DEEP
CBF8-300X450	4.5m	300mm	450mm
CBF8-400X450	4.5m	400mm	450mm
CBF8-450X450	4.5m	450mm	450mm
CBF8-U1200X1200	4.5m	1200mm	1200mm
CBF8-U450X450	4.5m	450mm	450mm
CBF8-U450X600	4.5m	450mm	600mm
CBF8-U600X600	4.5m	600mm	600mm
CBF8-U750X1200	4.5m	750mm	1200mm
CBF8-U750X600	4.5m	750mm	600mm
CBF8-U900X900	4.5m	900mm	900mm



RAPIDOBAT COLUMN FORMERS

Rapidobat

Installation

- Securing Base:** The base of the tube can be restrained by using a simple square timber arrangement fixed to the ground or decking as required
- Securing Top:** The top of the tube can be restrained with a similar frame as the base. Off which traditional props can be used to plump and restrain the tube vertically

Storage

Rapidobat Tubes are very strong but remember they are made of paper

The tubes must be protected from excessive moisture before and during use. If space permits the tubes should ideally be stored vertically and suspended above ground to permit air flow.

Cutting

Rapidobat is normally supplied pre-cut to site requirements. However, if tubes need to be shortened on site, cut only from the **Bottom** of the tube using a fine blade.

Placing Concrete

Up to 4m high and/or 450mm diameter normal pouring methods apply.

Over 4m and/or 450mm diameter, place concrete by hose or pump.

Stripping

Do not Strip within 48 hours of Pour

- Pull Special tear-off strip down full length of tube
- Flap open the tube and push column
- Remove inner liner from column and inspect the concrete finish
- Replace the Rapidobat tube for protection to the newly cast column

Circular Cardboard Column Former

MCS CODE	Diameter
RAPC200	200mm
RAPC250	250mm
RAPC300	300mm
RAPC350	350mm
RAPC400	400mm
RAPC450	450mm
RAPC500	500mm
RAPC560	560mm
RAPC600	600mm
RAPC650	650mm
RAPC700	700mm
RAPC750	750mm
RAPC800	800mm
RAPC900	900mm
RAPC1000	1000mm
RAPC1200	1200mm

Square Cardboard Column Former

MCS CODE	Diameter
RAPS200	200 x 200mm
RAPS250	250 x 250mm
RAPS300	300 x 300mm
RAPS350	350 x 350mm
RAPS400	400 x 400mm

Rapidobat Accessories

MCS CODE	Description
RAPFIX	Rapidobat Fixing Collar
RAPST	Rapidobat Square Template

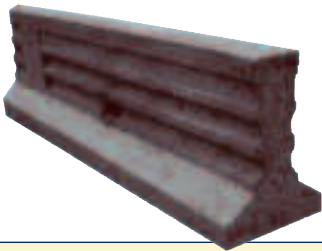
Rapidobat Cardboard Column Formers come complete with a unique tear off strip for easy removal. The former can view subsequently used to protect the column.



* Alternative Column Formers available on request

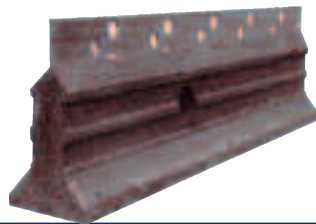
screed rail

FLAT TOP CONCRETE SCREED RAIL



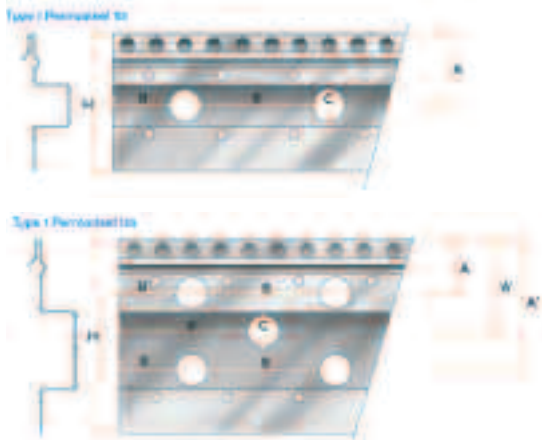
MCS CODE	HEIGHT mm	LENGTH mm
SSR80	80mm	3.9m
SSR100	100mm	3.9m
SSR120	120mm	3.9m
SSR140	140mm	3.9m

METAL TOP CONCRETE SCREED RAIL



MCS CODE	HEIGHT mm	LENGTH mm
SSR80	80mm	3.9m
SSR100	100mm	3.9m
SSR120	120mm	3.9m
SSR140	140mm	3.9m

PERMASTEEL SCREED RAIL – TYPE 1

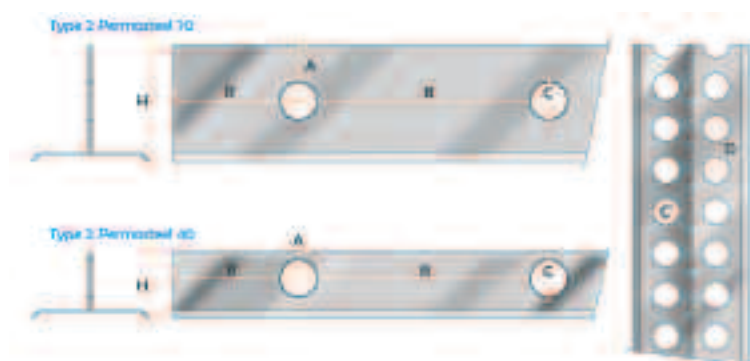


MCS CODE	TO SUIT SLAB DEPTHS	LENGTH mm
PERMA115	120mm - 160mm	3m
PERMA155	165mm - 200mm plus	3m

Each 3m long rail is supplied with 3 footplates for setting rail out

PERMABAN
Better Solutions for Better Floors

PERMASTEEL SCREED RAIL – TYPE 2

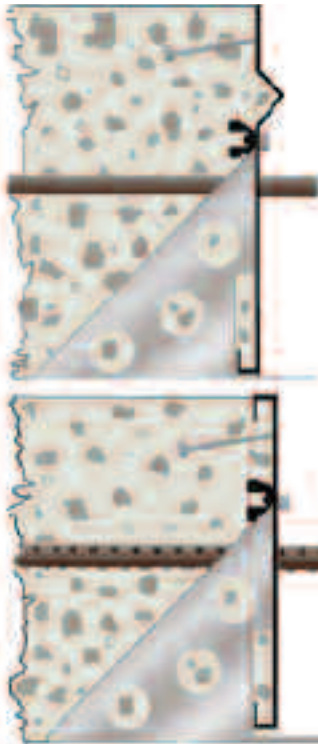


MCS CODE	TO SUIT SLAB DEPTHS	LENGTH mm
PERMA40	50mm - 75mm	3m
PERMA70	80mm - 115mm	3m
PERMAVOID	n / a	3m

PERMABAN
Better Solutions for Better Floors

BETAJOINT SYSTEM

- An easily installed, adjustable, 'Leave-In-Place' formwork system with bolt-on feet. BetaStrip is also punched to suit the Permaban AlphaFix fixing system to provide 'Micrometer' adjustment for superflat floors
- For tied or contraction joints ground bearing or upper floors, including metal deck
- Can be supplied punched to suit all types of dowel at alternative specified centres
- Eliminates the difficult and expensive task of removing the timber over the tie bars and damage to the concrete joint edge
- Made from galvanised steel, BetaStrip can be used for internal and external tied or contraction joints



BetaStrip for superflat, internal or external tied or contraction joints

Provides a 2mm wide strip for accurate levelling

BetaTop for internal or external tied or contraction joints

Folded Flat Top design locks the formwork into the concrete

**BETASTRIP SEALANT VOID FORMER**

For external or internal applications. A hard plastic sealant void former is available to fix to the top of the BetaStrip which can be either left in or removed and the joint filled with joint sealant.

BetaStrip and BetaTop are hole punched at 333mm centres for use with TieBars, Round Dowels or Square Dowels and is also punched at 500mm centres for Diamond Dowels which provides superior load transfer and two-way joint movement.

**BETAJOINT**

- 10mm wide Joint Arris Protected
- Easily Adjustable to Level
- Load Transfer by 6mm Diamond Dowels
- Round or Square Dowels or Tie Bars
- Available for 125mm to 225mm Slabs
- For medium Duty Free Movement Joints

MCS CODE	SLAB SIZE
BETA125	125mm - 225mm

**DIAMOND DOWEL**

MCS CODE	SIZE
DIAM115	115mm x 6mm

polythene membranes, geotextiles & waterproofing

WATERPROOFING AND GAS BARRIER MEMBRANES

MCS are proud to be able to offer a wide range of waterproofing membranes. We supply many different ranges from many manufacturers.



PROOFEX ENGAGE

Pre-applied membrane which mechanically bonds to poured concrete, remaining in place if settlement of substrate occurs

Product	Code	Roll size
Engage	51901	1.27 x 30m
Engage detail strip	51904	200mm x 10m
Proofex LM	53095	28kg
Proofex LM mesh	53100	100mm x 50m

PROOFEX 3000

For basement sub-structures, foundations and buried roofs

Product	Code	Roll size
Proofex 3000	51670	1 x 20m
Proofex Primer	51650	25l
Proofex Engage Detail Strip	51904	200mm x 10m
Proofex 3mm Protection board	51805	1 x 2m

PROOFEX 4000R

High performance reinforced waterproofing membrane for basement and structures

Product	Code	Roll size
Proofex 4000R	51675	1 x 20m
Proofex Primer	51650	25l
Proofex Engage Detail Strip	51904	200mm x 10m
Proofex 3mm Protection board	51805	2m x 1m



BITUTHENE 3000

Bituthene 3000 is a cold-applied, flexible waterproof membrane

Product	Code	Roll size
Bituthene 3000	25917	1 x 20m
B1 Primer	23559	25l
Bituthene LM	797	5.7l
Servitape	57098	30mm x 20m

BITUTHENE 8000

Bituthene 8000 is an advanced, self adhesive water and vapour proof membrane for substructures

Product	Code	Roll size
Bituthene 8000	10580	1 x 20m
B2 Primer	23560	25l
Bituthene Protection board	52905	2 x 1m
Hydroduct 200mm	21257	32 x 1.25m
Hydroduct 220mm	21247	32 x 1.25m

WATERPROOFING AND GAS BARRIER MEMBRANES

**PLASPRUFE MP**

A cross laminated polyethylene film coated on one side with polymer modified bitumen.

Product	Code	Roll size
Plasprufe MP	308325	1m x 20m
Plasprufe 3mm Protection board	625300	2 x 1m
Self adhesive Primer	436500	5l

PLASPRUFE 2000SA

Cold applied, self adhesive, modified bitumen waterproofing for basements and substructures

Product	Code	Roll size
Plasprufe 2000SA	308220	1m x 15m
Plasprufe 3mm Protection board	625300	2 x 1m
Self Adhesive Primer	436500	25l

PLASPRUFE 3100

High Performance, torch applied tanking membrane

Product	Code	Roll size
Plasprufe 3100	622300	1m x 10m
Plasprufe 3100 Reinforcing Strip	620651	330mm x 10m
Protection board	625300	2 x 1m
Ruberoid Bitumen Primer	435500	5l

**VISQUEEN GAS BARRIER SYSTEM**

Visqueen Gas Barrier utilises advanced multi-layer Lamination processes to create an impenetrable and lasting protection whilst retaining the flexibility for easy installation.

MCS CODE	PACK SIZE
VGB/30	30m & 1.6m
VGB/60	60m & 1.6m

TECHNICAL DATA

Weight per m ²	350gm/m ²
Roll Length	30m & 60m
Roll Width	1.6m
Colour	Blue/Silver
Methane Pereability	Less than 0.001 mls/m ² /24hr

VISQUEEN GAS BARRIER JOINTING SYSTEM

A comprehensive system for ensuring integrity of Visqueen Gas Barrier laps and joints.

- Visqueen double sided jointing tape for sealing laps
- Visqueen Foil Backed Girth Jointing Tape for added security
- Visqueen Top Hat Units where Visqueen Barrier is punctured by service pipes

TECHNICAL DATA
Roll Sizes

Double Sided Tape	50mm x 10m
Foil Backed Girth Tape	75mm x 50m
Top Hats available in various sizes	
Gas Resistant DPC	

polythene membranes, geotextiles & waterproofing

WATERPROOFING AND GAS BARRIER MEMBRANES



VISQUEEN RADON BARRIER

Independently Accredited by BRE Certification Ltd Visqueen Radon Membrane is an unreinforced polyethylene membrane, suitable for use in the protection of buildings from the ingress of Radon gas.

For an effective protection the Visqueen Radon membrane System should be used. The system comprises: Radon Membrane, Double Sided Tape, Girth Tape, Top Hats, Radon Sump units, Visqueen Self Adhesive Membrane.

TECHNICAL DATA

Thickness	300mu
Width	4m
Length	25m
Colour	Red
Roll Weight	27.6kg

ACCESSORIES

Visqueen Gas Resistant (GR) Damp Proof Course is a flexible polyethylene DPC with an aluminum foil designed to prevent the transmission of carbon dioxide, radon and methane gases.

It is suitable for vertical, horizontal stepped and cavity tray applications.

Zetex CPT High Performance DPC

TECHNICAL DATA

Roll Length	20m
Widths	Up to 1000mm
Weight	0.5kg/m ²
Thickness	0.5mm

Product	Code	Roll size
Doublesided Jointing Tape	VIS/TAPE/D550MM	50mm x 10m
Girth Jointing Tape	VIS/GIRTH/TAPE	10mm x 33m
Pre-formed Top Hat units		

POLYTHENE (DAMP PROOF MEMBRANE)

Various gauges of DPM (damp proof membrane) in concrete floors to prevent upward movement of water.

Certified by British Board of Agreements.



MCS CODE	GAUGE (microns)	SIZE (mtr)
DPM1000BBA	1000 (250 mu)	4 x 25
DPM1200BBA	1200 (300 mu)	4 x 25
DPM2000BBA	2000 (500 mu)	4 x 12.5
DPM500BBA	500 (125 mu)	4 x 50

TEMPORARY POLYTHENE SHEETING (TPS)

Clear Protective Sheeting used to general covering purposes

MCS CODE	DUTY	SIZE (mtr)
TPS/H	Heavy	4 x 25
TPS/M	Medium	4 x 50

GEOTEXTILE MEMBRANE

Various Geotextile Membranes available

Please contact us for further information, pricing and data

CENTRE BULB (INTERNAL EXPANSION)

Centrebulb Internal Waterstops have been specifically developed with its unique developed end bulb to provide a totally effective water barrier when cast centrally within a concrete wall



MCS CODE	WIDTH	LENGTH
CCCB150	150mm	15m
CCCB200	200mm	15m
CCCB250	250mm	15m

FLAT DUMBELL – PLAIN WEBB (INTERNAL CONSTRUCTION)

Flat Dumbell Waterstops, similar to Centrebulb waterbar, has been specifically designed as an effective water barrier

Flat dumbell have been Independently tested to withstand ingress of water.



MCS CODE	WIDTH	LENGTH
CCPW150	150mm	15m
CCPW200	200mm	15m
CCPW250	250mm	15m

PLAIN WEBB (EXTERNAL CONSTRUCTION)

External Construction Waterbar is a high performance, heavy duty profile waterstop.

It is specifically developed to seal joints in concrete structures.



MCS CODE	WIDTH	LENGTH
CCRR200	200mm	15m
CCRR250	250mm	15m

EXTERNAL EXPANSION

External Expansion Waterbar similar to external construction, heavy duty, high performance waterbar.

Independently tested to provide a totally effective water barrier up to 27m head in construction, expansion and kicker joints in concrete water retaining and excluding structures

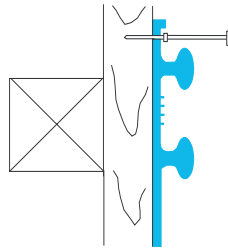


MCS CODE	WIDTH	LENGTH
CCRS200	200mm	15m
CCRS250	250mm	15m

water bar

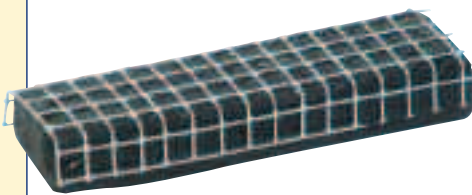
SUPERCAST REARGAURD

All other Supercast ranges available on request.



MCS CODE	WIDTH	LENGTH
Supercast Rearguard S200	46171	200mm
Supercast Rearguard S250	46241	250mm

RX101 WATERSTOP



MCS CODE	WIDTH	LENGTH
RX101XXXXXAH	25mm	5m

HEAVY DUTY WATER BAR

External Construction Waterbar is a high performance, heavy duty profile waterstop.

It is specifically developed to seal joints in concrete structures.

MCS CODE	WIDTH	LENGTH
WBHD	150mm	15m
WBHD200	200mm	15m
WBHD250	250mm	15m

WATER BAR KICKER



250mm Extaseal Construction Waterstop

MCS CODE	WIDTH	LENGTH
WBKIK	330mm	10m

HYDROTITE



After expansion

Before expansion

MCS CODE	LENGTH	WIDE	DEEP
HYDROTITE0725	7mm	25mm	10m

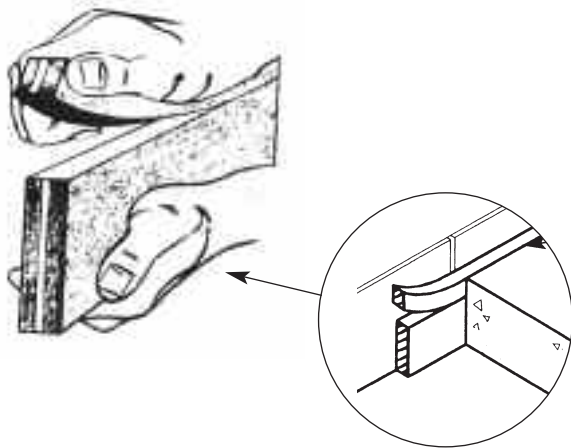
CONSTRUCTAFOAM SHEETS

Miothene Sheets
Expansion Joint Foam Filler Board.

MCS CODE	THICKNESS	WIDTH	LENGTH
CFS10	10mm	1m	2m
CFS12	12mm	1m	2m
CFS20	20mm	1m	2m
CFS25	25mm	1m	2m

CONSTRUCTAFOAM CUT STRIPS

Miothene Strips
Expansion Joint Foam Filler Board Strips



- Also available, fillerboards for civil and specialist applications

MCS CODE	THICKNESS	WIDTH	LENGTH
CF10/100	10mm	100mm	10m
CF10/140	10mm	140mm	10m
CF10/150	10mm	150mm	10m
CF10/190	10mm	190mm	10m
CF12/100	12mm	100mm	10m
CF12/150	12mm	150mm	10m
CF12/175	12mm	175mm	10m
CF12/200	12mm	200mm	10m
CF12/225	12mm	225mm	10m
CF12/250	12mm	250mm	10m
CF20/100	20mm	100mm	2.2m
CF20/150	20mm	150mm	2.2m
CF20/175	20mm	175mm	2.2m
CF20/200	20mm	200mm	2.2m
CF20/250	20mm	250mm	2.2m
CF25/100	25mm	100mm	2.2m
CF25/150	25mm	150mm	2.2m
CF25/175	25mm	175mm	2.2m
CF25/200	25mm	200mm	2.2m
CF25/250	25mm	250mm	2.2m

FIBREBOARD SHEETS

Compressible, Non Extruding, Bitumen Impregnated,
Fibreboard Expansion Joint Filler

MCS CODE	THICKNESS	WIDTH	LENGTH
24500	12mm	1.22m	2.4m
25500	20mm	1.22m	2.4m
26000	25mm	1.22m	2.4m

FIBREBOARD STRIPS

Compressible, Non Extruding, Bitumen Impregnated,
Fibreboard Expansion Joint Filler Strips



MCS CODE	THICKNESS	WIDTH	LENGTH
FL12/100	12mm	12x100mm	2.44m
FL12/150	12mm	12x150mm	2.44m
FL12/200	12mm	12x200mm	2.44m
FL20/100	20mm	20x100mm	2.44m
FL20/150	20mm	20x150mm	2.44m
FL20/175	20mm	20x175mm	2.44m
FL20/200	20mm	20x200mm	2.44m
FL25/150	25mm	25x150mm	2.44m
FL25/175	25mm	25x175mm	2.44m
FL25/200	25mm	25x200mm	2.44m

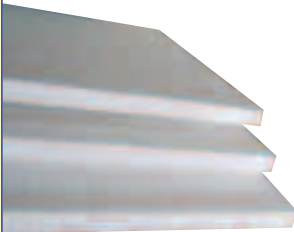
foam, fibreboard & sealants

ROUND POLYETHYLENE CORD



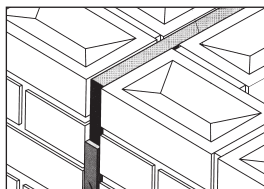
MCS CODE	THICKNESS	METRES/ BOX
CORD6	6mm	2500m
CORD10	10mm	1150m
CORD13	13mm	750m
CORD15	15mm	550m
CORD20	20mm	350m
CORD25	25mm	200m
CORD30	30mm	160m
CORD40	40mm	270m
CORD50	50mm	180m

POLYSTYRENE SHEETS



MCS CODE	THICKNESS	WIDTH	LENGTH
POLYSH10	10mm	1.22m	2.44m
POLYSH20	20mm	1.22m	2.44m
POLYSH25	25mm	1.22m	2.44m
POLYSH50	50mm	1.22m	2.44m
POLYSH75	75mm	1.22m	2.44m
POLYSH100	100mm	1.22m	2.44m
POLYSH150	150mm	1.22m	2.44m
POLYSH200	200mm	1.22m	2.44m

AEROFILL SHEETS



Cut Strips available on request

MCS CODE	THICKNESS	WIDTH	LENGTH
AEROFILL10	10mm	1m	2m
AEROFILL20	20mm	1m	2m
AEROFILL210	10mm	1m	2m
AEROFILL220	20mm	1m	2m
AEROFILL30	30mm	1.2m	2.8m

POLYSTYRENE VOID FORMERS

A wide range of POLYSTYRENE VOID FORMERS designed to give a cost effective method of reducing weight in concrete structures

Uses

Forming voids in Large Concrete Slabs
Forming voids in Motorway Bridges
Reducing weight on bridge decks

MCS Polystyrene Void Formers

Cut from Expanded Polystyrene Blocks
Custom made to suit customers needs.
Various Shapes and Sizes available on request

Technical Information Available on Request

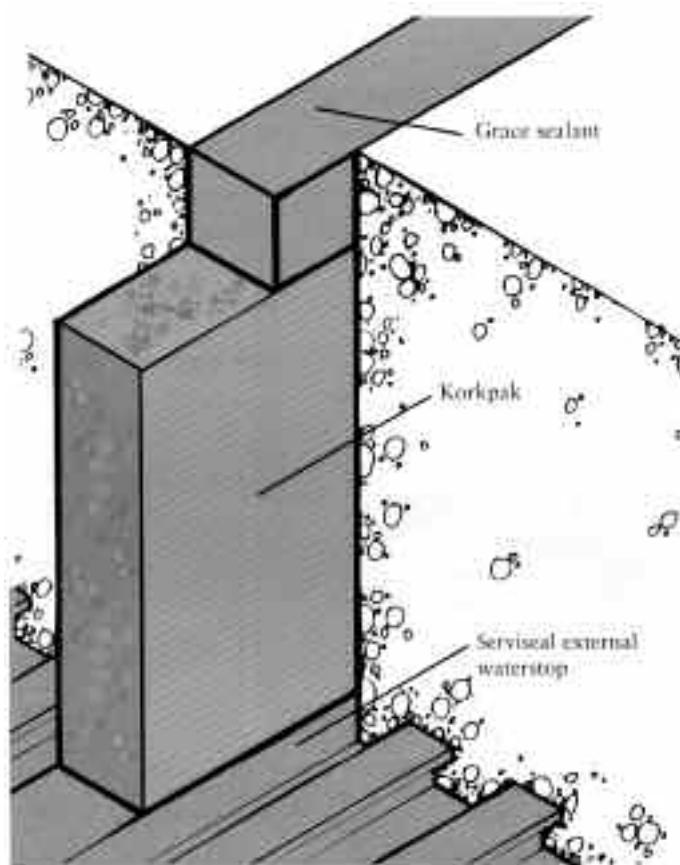
KORKPAK

Cementitious, flexible, moisture tolerant sealant for construction joints in reinforced and precast concrete

Advantages

- **Waterproof** - will not absorb moisture
- **Durable** - Unlike Fibreboard, Korkpak is resistant to water and fungal attack when exposed
- **Positive Sealant Support** - prevents displacement when subjected to normal hydrostatic pressure
- **Compressible** - Will compress to 50% of thickness and recover to 70% of original thickness
- **Robust** - will not distort under load from wet concrete

MCS CODE	THICKNESS mm	SHEET SIZE
44050010	10mm	2m x 1m
44050013	13mm	2m x 1m
44050020	20mm	2m x 1m
44050025	25mm	2m x 1m



foam, fibreboard & sealants

SEALANTS

MCS are proud to be able to offer a wide range of waterproofing membranes. We supply many different ranges from many manufacturers.



PRODUCT	MCS CODE	PACKAGING	DESCRIPTION
Expoflex 800	16101	2 x 2 litres	Tough Epoxy PU Sealant
Plastiseal	10839	20 x 380ml cartridges	Rubber Bitumen gun applied sealant
Thioflex 600	13721	2.5 litres	Multi-compound, gun and pouring grade, polysulphide sealant
Thioflex One	THIOFLEX1	20 x 380ml cartridges	One Part Polysulphide Sealant



PRODUCT	MCS CODE	PACKAGING	DESCRIPTION
Coldseal 200-90	CS200-90	4.5 litres	Two Part modified polyurethane cold applied sealant for sealing joints in concrete paved area. Roads etc
Uraflex	URAFLEX600	60cc Foil Containers	One Part Polyurethane Sealant – High movement elastomeric sealant supplied ready for immediate use
4254	4254-2	2.5 litre Gun Grade	Two Part Polysulphide Sealant is a high grade synthetic rubber based sealant



PRODUCT	MCS CODE	PACKAGING	DESCRIPTION
Servigard DW	SERV-DW	5.5Kg	Cementitious, Flexible, moisture tolerant sealant for construction joints in reinforced and precast concrete
Vertiseal CE DW	VERT-DW	4 x 2.5Kg	Two Part Cold Applied, Gun Grade polysulphide sealant for sealing vertical movement joints in buildings
Paraseal	PARASEAL5	5 litres	Two Part Cold Applied, Pouring Grade polysulphide sealant for sealing horizontal movement joints in buildings

General Purpose Silicones Available on Request

If specified other manufacturers that are not in here please do not hesitate to call as we can supply materials from many manufacturers such as Illbruck, Adshed Ratcliff and many more

ADOLEASE CHEMICAL RELEASE AGENT

A blend of fatty acids in a partially evaporative carrier that provide a stain free concrete finish of the highest quality with excellent strip. Listed by WBS for drinking water projects. Spray applied to all types of impermeable formwork to give superior concrete finish and release. BCA Category 5. Used where forms are struck after more than 18hrs at ambient temperature. Inhibits corrosion on metal forms.

20-30m² per litre
200, 25 and 5 litre 1000 litre to order



MCS CODE	SIZE (ltr)
ADOLEASE5	5 litre
ADOLEASE25	25 litre
ADOLEASE210	210 litre
ADOLEASE1000	1000 litre

ADOLEASE PREMIUM CHEMICAL RELEASE AGENT

Use in place of Adolease in confined areas with poor ventilation

20-30m² per litre
200, 25 and 5 litre 1000 litre to order



MCS CODE	SIZE (ltr)
ADOLEASEP5	5 litre
ADOLEASEP25	25 litre
ADOLEASEP210	210 litre
ADOLEASEP1000	1000 litre

ADOCURE STANDARD

Resin based curing compound of 75% efficiency. Solution of inert resins in evaporative solvents for use in general construction projects. WBS Listed for drinking water projects.

5.5m² per litre
210 and 25 litre



MCS CODE	SIZE (ltr)
ADOCURESTD25	25 litre
ADOCURESTD210	210 litre

ADOCURE STANDARD T

Fugitive Dye Tinted Resin based curing compound of 75% efficiency. Solution of inert resins in evaporative solvents for use in general construction projects. WBS Listed for drinking water projects.

5.5m² per litre
210 and 25 litre



MCS CODE	SIZE (ltr)
ADOCURESTD25	25 litre
ADOCURESTD210	210 litre

ADOCURE WW

Water based curing agent. Aqueous silicate solution that reacts to deposit an integral layer of high strength crystals in the pore structure. WBS Listed for drinking water projects. Low cost general purpose curing. Will not restrict bond of subsequent coatings intended for use with concrete.

5.5m² per litre
210 and 25 litre



MCS CODE	SIZE (ltr)
ADOCUREWW25	25 litre
ADOCUREWW210	210 litre

ADOCURE WWT

Fugitive Dye Tinted form to suit specification and improve visual indication of application. Aqueous silicate solution that reacts to deposit an integral layer of high strength crystals in the pore structure. WBS Listed for drinking water projects. Low cost general purpose curing. Will not restrict bond of subsequent coatings intended for use with concrete.

5.5m² per litre
210 and 25 litre



MCS CODE	SIZE (ltr)
ADOCUREWWT25	25 litre
ADOCUREWWT210	210 litre

ADOCURE SUPER

Resin based curing compound of 90% efficiency. Similar to Adocure Standard but with a higher curing efficiency. WBS Listed for drinking water projects.

5.5m² per litre
210 and 25 litre



MCS CODE	SIZE (ltr)
ADOLEASEP25	25 litre
ADOLEASEP210	210 litre

ADOCURE SUPER T

Fugitive Dye Tinted Resin based curing compound of 90% efficiency. Similar to Adocure Standard but with a higher curing efficiency. WBS Listed for drinking water projects.

5.5m² per litre
210 and 25 litre



MCS CODE	SIZE (ltr)
ADOCURESUPT25	25 litre
ADOCURESUPT210	210 litre

ADOCURE SEALER

Combined curing agent & sealer. 75% curing efficiency to ASTM C390. High solids resin based compound to cure and provide a long term seal in one operation. Available in PF grade for power floated floors. Clean spraying equipment using Adowash.

6-8m² per litre (Depending upon surface finish)
210, 25 and 5 litre



MCS CODE	SIZE (ltr)
ADOCURESEAL5	5 litre
ADOCURESEAL25	25 litre
ADOCURESEAL210	210 litre

ADOSTRIKE

Mould oils with surfactants. A special blend of oils with highly active surfactants that give excellent release with no staining. BCA Category 2. All types of commonly used formwork but particularly sealed or unsealed plywood. Produces stain free surfaces. Use when early or normal striking times are employed. WBS listed for use in potable water schemes.

20-30m² per litre
200, 25 and 5 litre 1000 litre to order



MCS CODE	SIZE (ltr)
ADOSTRIKE5	5 litre
ADOSTRIKE25	25 litre
ADOSTRIKE210	210 litre
ADOSTRIKE1000	1000 litre

ADOSTRIKE PREMIUM

Use in place of Adostrike in confined areas with poor ventilation

20-30m² per litre
200, 25 and 5 litre 1000 litre to order



MCS CODE	SIZE (ltr)
ADOSTRIKEP5	5 litre
ADOSTRIKEP25	25 litre
ADOSTRIKEP210	210 litre
ADOSTRIKEP1000	1000 litre

ADOTUF

Water Based Surface Hardener. Spray or brush applied surface hardener and dustproof for new and existing concrete floors. Dilute to give high penetration. When applied it will greatly extend the life and durability of the floor and also cut down the dust that old floors can release.

10-12m² per litre (Depending upon surface finish)
210, 25 and 5 litre



MCS CODE	SIZE (ltr)
ADOTUF5	5 litre
ADOTUF25	25 litre
ADOTUF210	210 litre

ADOTARD TOP FACE

Top Face Surface Retarder. Spray applied liquid that retards the setting of the top surface of freshly placed concrete. The surface laitence can be brushed/washed away the following day to produce an exposed aggregate finish.

5m² per litre
210, 25 and 5 litre



MCS CODE	SIZE (ltr)
ADOTARDTF5	5 litre
ADOTARDTF25	25 litre
ADOTARDTF210	210 litre

ADOTARD MOULD FACE

Mould applied concrete surface retarder. A latex emulsion paint that adheres to the form face and retards the set of concrete in immediate contact, allowing laitence to be brushed/washed away the following day. Production of aggregate finish as a mechanical key for construction joints or decorative feature.

12-15m² per litre
25 and 5 litre



MCS CODE	SIZE (ltr)
ADOTARDMF5	5 litre
ADOTARDMF25	25 litre

ADOCOAT

Bitumen rubber latex waterproofing coating. Waterproof coating to concrete prior to backfilling. Sandwich damp proof membrane. Repairs cracks in black top surfacing and concrete.

1-2m² per litre per coat
210 and 25 litre



MCS CODE	SIZE (ltr)
ADOCOAT25	25 litre
ADOCOAT210	210 litre

ADOFILL

Patch repair resin compound. Two part polyester filler available in either natural, Dark Grey (DG) or Dark Teak (DT) versions to suit common formwork colours. Use on wood, fibreglass or metal formwork for repairs to surface damage. Easily worked and sanded. Compatible with release agents.
8 and 2kg packs



MCS CODE	SIZE (ltr)
ADOFILL2	2 kg
ADOFILL8	8 kg

ADOLAC

Urethane alkyd lacquer for timberformwork, floors, woodwork etc. Brush applied seal untreated timber formwork surface prior to mould release agent application. Higher flashpoint than Adoseal. Thin and clean using Resothin W.

7-9m² per litre (Depending upon porosity)
25, 5 and 1 litre



MCS CODE	SIZE (ltr)
ADOLAC1	1 litre
ADOLAC5	5 litre
ADOLAC25	25 litre

ADOWAX

Wax based sealer & release agent. A blend of waxes in a hydrocarbon solvent that when applied to formwork gives an excellent seal and can be used for release. BCA category 7. Depends upon roughness and porosity.

20kg keg



MCS CODE	SIZE (ltr)
ADOWAX20	20 kg

STYROKLENS

Solvent or removal of expanded polystyrene. Safely dissolves and emulsifies expanded polystyrene.

25-50ml to dissolve 1 litre
210, 25 and 5 litre



MCS CODE	SIZE (ltr)
STYRO/5LT	5 litre
STYRO/25LT	25 litre
STYRO/210LT	210 litre

SPRAYERS

7 Litre Plastic Sprayer, 9 Litre Metal Sprayer, 12 Litre Knapsack Sprayer

For application of release agents, curing compounds etc. Singly or x 4 boxes



MCS CODE	SIZE (ltr)
PL7	7 litre
MT9	9 litre
KNAP/SPRAY	12 litre

RHEOFINISH 211

Protective surface coating for timber forms shutter faces



MCS CODE	SIZE (ltr)
RHEOFINISH21 1205	205ltrs

repair mortars

HIGH-BUILD EPOXY MORTARS

Nitomortar HB and Epoxy Plus Low Slump Mortar are used for the fast and permanent reinstatement of concrete, particularly where resistance to chemicals is required. High-build mortars can be used for small, localised patch repairs and, because of their lightweight nature, are ideally suited for use in vertical and overhead locations, and for emergency repairs where fast strength gain is important. When properly compacted, the mortar is highly impermeable.

Minimum Thickness: 10mm
Maximum Thickness: 50mm
Comprehensive Strength 40n/mm²



Minimum Thickness: 5mm
Maximum Thickness: 75mm Vertical
30mm Overhead
Comprehensive Strength 50n/mm²



DESCRIPTION	MCS CODE	YIELD/ PACK	PACK SIZE
Nitomortar HB STD	10878	2.5lt	2.9kg
JND	10877	8.0lt	9.3kg
Primer: Nitoprime 28	10931	2.4m ²	0.45kg
10934	20m ²	4.2kg	
Epoxy Plus Low Slump	EPLS16	12.7lt	16kg
Primer: Bonding Aid	EPB0.5	0.5m ²	0.56kg
EPB5.6	9.0m ²	5.6kg	

EPOXY FAIRING COAT

Nitomortar FC is an epoxy resin fairing coat for filling blow holes and eliminating minor irregularities. Nitomortar FC can be applied to damp surfaces and will bond to virtually all substrates. No primer is required.

Minimum Thickness: 1mm
Maximum Thickness: 5mm
Comprehensive Strength 70n/mm²



DESCRIPTION	MCS CODE	YIELD/ PACK	PACK SIZE
Nitomortar FC	10967	0.5m ²	1kg
	@ 1mm		

POLYESTER RESIN COMPOUNDS

'STRONGER THAN CONCRETE IN ONE HOUR'

Ceritite Mortar and Nitomortar PE do not require primer and are used for fast and emergency reinstatement of concrete, bedding, jointing and reprofiling of concrete, masonry and brickwork. Polyester mortars are ideally suited for the repair and reprofiling of precast concrete floors, bed and fix kerbstones, manhole sets, frames, brick slips, ceramic tiles, slabs and coping stones. The products are especially useful where fast strength gain is important. When properly compacted, they are highly impermeable.

Application Thickness
Ceritite: 3mm–50mm
Mitomortar: 5mm–12mm



DESCRIPTION	MCS CODE	YIELD/ PACK	PACK SIZE
Ceritite Mortar	CRM25	12.5lt	25kg
Nitomortar PE	10892	7.5lt	14kg

POLYESTER BEDDING MORTAR

Ceritite Bedding Mortar is a two-part component, polyester-based mortar for the bedding and fixing of manhole frames, airport landing lights, duct frames and precast concrete units. It has been formulated for easy mixing and placement, even at low temperatures and, when cured, provides a durable, chemically resistant bedding and fixing material with good bond strength.

Application Thickness:
10mm–40mm



DESCRIPTION	MCS CODE	YIELD/ PACK	PACK SIZE
Ceritite Bedding Mortar	CRBM25	12lt	25kg

STANDARD REPAIR MORTARS

Mulsifix Repair Mortar and Renderoc GP are general purpose concrete reinstatement mortars which can be used as a render as well as for all types of patch repairs.

Minimum Thickness:	10mm
Maximum Thickness:	12mm Vertical 100mm Horizontal
Comprehensive Strength	55n/mm ²

Minimum Thickness:	5mm
Maximum Thickness:	10mm Vertical 100mm Horizontal
Comprehensive Strength	55n/mm ²

DESCRIPTION	MCS CODE	PACK SIZE	YIELD/ PACK
Mulsifix Repair Mortar	MLR25	25kg	11.5lt
Primer Mulsifix Keycoat	MLK25	25kg	25m ²
Renderoc GP	11047	25kg	16lt
Renderoc S	11062	25kg	12lt
Primer: Nitobond HAR	10590 10589	5lt 5lt	15m ² 15m ²



LIGHTWEIGHT REPAIR MORTARS

Mulsifix and Renderoc Lightweight Mortars are high-build cementitious mortars which for vertical and soffit repairs. Available in three grades of varying strengths.

Minimum Thickness:	10mm
Maximum Thickness:	100mm Vertical 75mm Overhead

Minimum Thickness:	10mm
Maximum Thickness:	80mm Vertical 50mm Overhead

DESCRIPTION	MCS CODE	PACK SIZE	YIELD/ PACK	COMPREHENSIVE STRENGTH
Mulsifix LW	MLL20	20kg	16lt	30n/mm ²
Mulsifix HB30	MLHB30	20kg	16lt	35n/mm ²
Mulsifix HB40	MLHB40	20kg	16lt	45n/mm ²
Primer: Keycoat	MLK25	25kg	25m ²	-
Renderoc HB	11048	18kg	15lt	22n/mm ²
Renderoc HB25	11052	18kg	15lt	23n/mm ²
Renderoc HB40	11051	25kg	15.8lt	40n/mm ²
Primer:	10590	5lt	15m ²	-
Nitobond HAR	10589	25lt	75m ²	-



Ardex A45 repair mortar for internal floors, walls, ceilings and soffits. Used to make good, patch, fill or shape repairs.

Ardex-Flex 6001 is classified as C2 FT (improved fast setting cementitious adhesive with additional characteristics and reduced slip) in accordance with BS EN 12004.

DESCRIPTION	MCS CODE	PACK SIZE
Rapid Drying Mortar	ARD/A45	11kg
Ardex-Flex 6001	ARD/6001	22kg



repair mortars

RENDEROC FC (FAIRING COAT)

Cementitious polymer modified fairing coat. No primer required but substrate must be wetted out with water. Gives a fair faced finish to concrete.

MCS CODE	PACK SIZE	YIELD/ PACK	COVERAGE/ PACK
11046	25kg	15lt	7.5m ² @ 2mm thick

**EPOXY BONDING AGENTS**

Sikadur 32, Epoxy Plus Bonding Aid and Nitobond EP are two-component epoxy resins that provide a bond of far greater strength than the tensile strength of the concrete itself. Therefore it is suitable wherever structural bonding of new cementitious materials is required to existing cementitious surfaces.

DESCRIPTION	MCS CODE	YIELD/ PACK	PACK SIZE
Nitobond EP STD	10584	10m ²	4.5kg
Nitobond EP Slow Set	10577	10m ²	4.5kg
Epoxy Plus Bonding Aid	EPB0.5 EPB5.6	0.5lt 5.0t	0.56kg 5.6kg
Sikadur 32	SKD32/12 SKD32/50	0.8lt 3.5lt	1.2kg 5kg

**EMERGENCY PATCH REPAIRS**

Patchroc GP and Pyrapatch are designed for small scale emergency patch repairs in floor slabs etc. These can be used both internally and externally. For repairs in excess of 100mm thickness

Patchroc GP – Use Primer:

Nitobond AR: For Pedestrian and Light Vehicular Traffic

Nitobond EP STD or

Nitobond EP Slow Set: For Heavy Vehicular Traffic

Minimum Thickness:	Patchroc GP 12mm	Pyrapatch 25mm
Maximum Thickness:	100mm	50mm
	60n/mm ²	66n/mm ²

DESCRIPTION	MCS CODE	YIELD/ PACK	PACK SIZE
Pyrapatch	PYP25	12lt	25kg
Patchroc	10731	12lt	25kg
Nitobond AR	10575	30m ²	5lt
Nitobond EP STD	10584	10m ²	4.5kg
Nitobond EP Slow Set	10577	10m ²	4.5kg
Pyra Aggregate	PYA25	-	25kg
Febset	FEBSET45	11.6lt	25kg

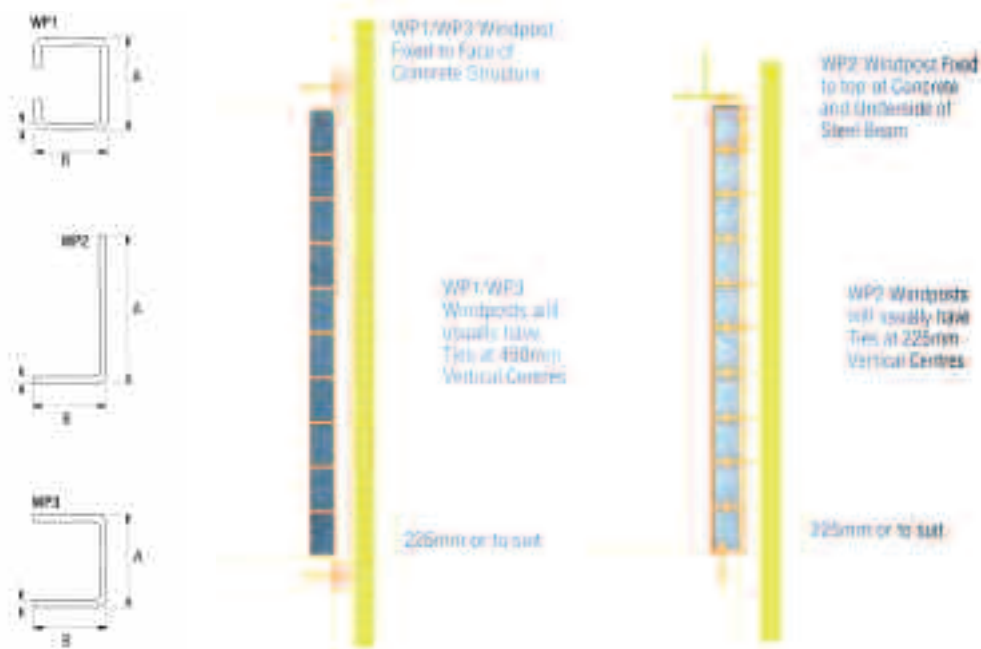


WINDPOST DESIGN

Ancon Windposts are designed to span vertically between floors to provide lateral support for panels of brickwork. The windposts will usually be restrained by the brickwork and designed as 'simply supported beams'

Deflection under wind load will often limit the maximum loading. Windposts can be designed as 'propped cantilevers' to limit deflection, this however will require a much larger base connection which in many cases may be difficult to accommodate.

Connections to the frame are designed to permit adjustment during installation. Serrated surfaces will be provided where adjustment is in the direction of the load. The top connection allows for shrinkage or vertical movement of the frame to take place. The type of fixing will depend on the nature of the frame. Expansion bolts are normally supplied for concrete frames and set screws will be supplied for steel frames.



PARAPET AND SPANDREL POSTS

Ancon Parapet and Spandrel Posts are restrained by the brickwork and designed as 'cantilevers'. The base connection will need to be sufficient to resist the 'bending moment' and may in some cases be difficult to accommodate within the floor construction. The height of these posts is unlikely to be more than 1.6 metres.



brickwork accessories

ST1

Conforms to Type 1 DD140

UK Patent No's

2255 358

2260 348

2260 349



MCS CODE	LENGTH	PER
ST1200	200mm	100
ST1225	225mm	100
ST1250	250mm	100
ST1300	300mm	100

SD1

Type 1 Tie to DD140

Drip 90mm from one end as standard

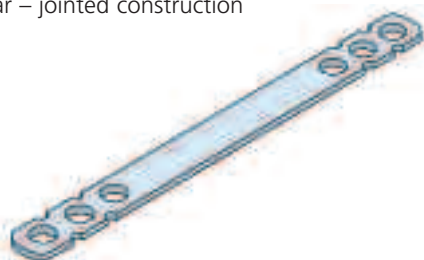
Also Available with Central Drip



MCS CODE	LENGTH	PER
SD1150	150mm	100
SD1200	200mm	100
SD1225	225mm	100
SD1250	250mm	100
SD1275	275mm	100
SD1300	300mm	100

SPS

Please specify 20 x 3mm section for collar – jointed construction



MCS CODE	LENGTH	PER
SPS150	150mm	100
SPS200	200mm	100
SPS225	225mm	100
SPS250	250mm	100
SPS275	275mm	100
SPS300	300mm	100

PPS

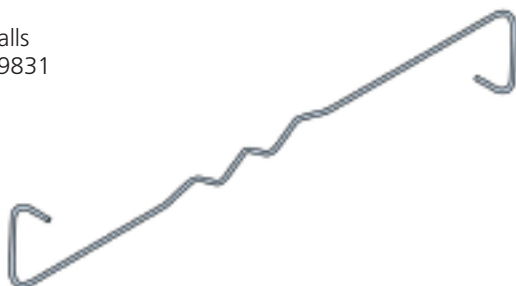
*Debonding Sleeve Sold Separate



MCS CODE	LENGTH	PER
PPS150	150mm	100
PPS200	200mm	100
PPS225	225mm	100
PPS250	250mm	100
PPS300	300mm	100

HRT4

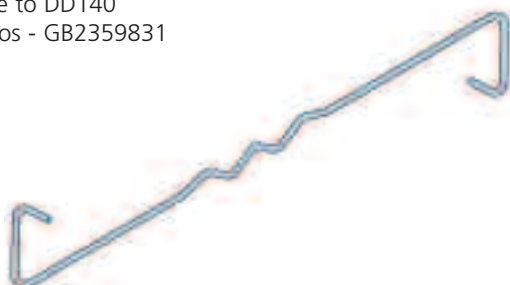
Type 4 tie to DD140
Suitable for Party Walls
Patent Nos - GB2359831



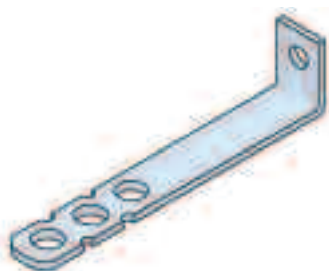
MCS CODE	LENGTH	PER
HRT4200	200mm	1000
HRT4250	250mm	1000

RT2

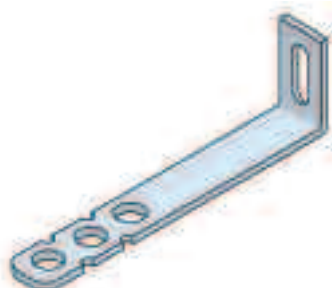
Type 2 tie to DD140
Patent Nos - GB2359831



MCS CODE	LENGTH	PER
RT2200	200mm	1000
RT2225	225mm	1000

SPB

MCS CODE	LENGTH	PER
SPB75	75mm	100
SPB100	100mm	100
SPB125	125mm	100
SPB150	150mm	100
SPB175	175mm	100
SPB200	200mm	100
SPB225	225mm	100
SPB250	250mm	100

SPV

MCS CODE	LENGTH	PER
SPV75	75mm	100
SPV100	100mm	100
SPV125	125mm	100
SPV150	150mm	100
SPV175	175mm	100
SPV200	200mm	100
SPV225	225mm	100
SPV250	250mm	100

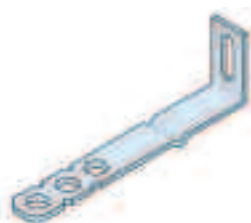
brickwork accessories

SDB

Drip 90mm front one end as standard



MCS CODE	LENGTH	PER
SDB100	100mm	100
SDB125	125mm	100
SDB150	150mm	100
SDB175	175mm	100
SDB200	200mm	100
SDB225	225mm	100
SDB250	250mm	100

SDV

MCS CODE	LENGTH	PER
SDV100	100mm	100
SDV125	125mm	100
SDV150	150mm	100
SDV175	175mm	100
SDV200	200mm	100
SDV225	225mm	100
SDV250	250mm	100

PPB

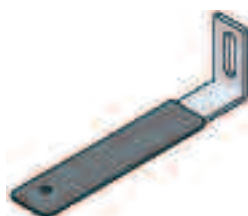
Sleeve NOT included in rates



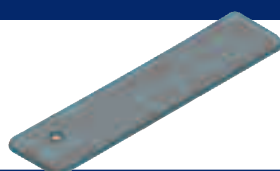
MCS CODE	LENGTH	PER
PPB75	75mm	100
PPB100	100mm	100
PPB125	125mm	100
PPB150	150mm	100
PPB175	175mm	100
PPB200	200mm	100
PPB225	225mm	100
PPB250	250mm	100

PPV

Sleeves NOT included in rates



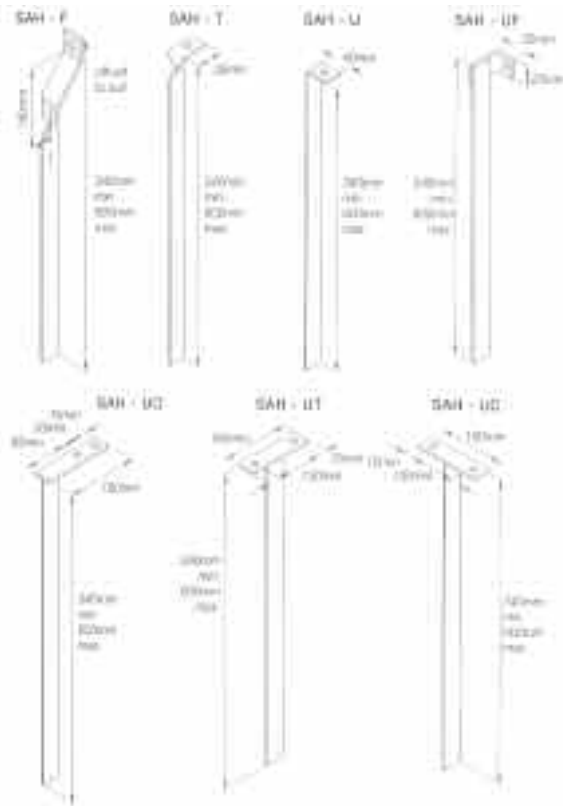
MCS CODE	LENGTH	PER
PPV75	75mm	100
PPV100	100mm	100
PPV125	125mm	100
PPV150	150mm	100
PPV175	175mm	100
PPV200	200mm	100
PPV225	225mm	100
PPV250	250mm	100

DEBONDING SLEEVE

MCS CODE	LENGTH	PER
AC6920120BLAC	120mm	100

ALL OTHER BRICK TIE / HEAD RESTRAINTS / SLIDING ANCHORS AVAILABLE ON REQUEST

SLIDING ANCHORS

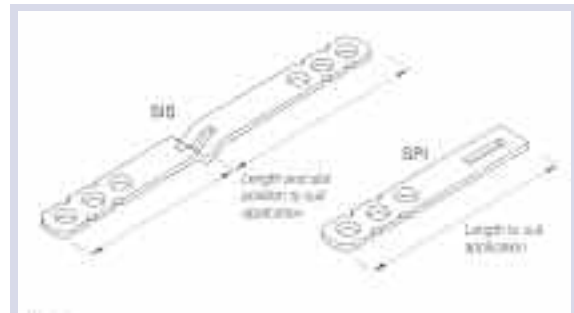


Head dimensions and hole positions are variable

Ancon SAH - Sliding Anchors

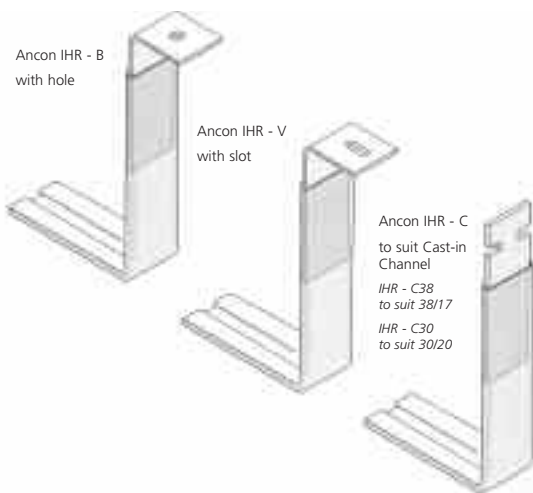
Ancon SAH Sliding Anchors have stems which fit within the cavity and accept ties that slide to accommodate vertical movement. Available with seven different head options as standard, they are supplied with one-way or two-way ties with safety ends.

The standard fixing hole is 12mm diameter to suit Ancon M10 Single Expansion Bolts or M10 T Head Bolts to fit Ancon 28/15 Channel. Ancon SAH Sliding Anchors have 25 x 5mm stems and a maximum service capacity of 1kN per stem when the upper tie is within 75mm of the fixing. These drawings are examples only. All sliding anchors are manufactured to suit individual requirements.



Ancon Wall Ties to suit SAH Sliding Anchors

HEAD RESTRAINTS

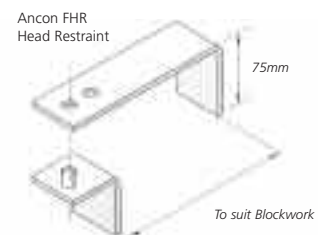
**Ancon IHR - Internal Head Restraint**

The Ancon IHR is used for restraining the top of internal walls or the top of the inner leaf of a cavity wall. The opening at the front of the channel stem is sealed to prevent mortar ingress and to ensure that vertical movement can take place between the blockwork and the centre of the stem no closer than 50mm from the edge of the block. The vertical joint should be filled with mortar each side of the stem. The maximum joint between the top of the blockwork and the underside of the frame should not be greater than 25mm.

The sliding tie can be provided with either a hole or slot to suit M8 bolts, or with a notch end to fix directly into a 38/17 or 30/20 cast-in channel. The standard Ancon IHR will suit a 215mm high block and can resist a load of 1.5kN. Other sizes between 150 - 250mm are available.

Ancon FHR - Head Restraint

The Ancon FHR Head Restraint is used for restraining the top of internal walls or the internal leaf of a cavity wall. The two angles clamp the top of the wall and have 10mm diameter holes to suit M8 bolts. They are supplied with two holes in the longer angle to allow the restraint to fit 100mm and 140mm blockwork. Each restraint can resist a service load of 1kN.



brickwork accessories

CAST-IN CHANNELS

Cast-in Channels range from simple self-anchoring slots for accepting restraint fixings to large capacity channels with integral anchors. They provide the necessary adjustment required when fixing to concrete and can eliminate site drilling. Nail holes aid the fixing of channels to timber framework and an infill prevents the ingress of concrete during casting.

Cast-in fixings do not generate expansive forces in the concrete and can be used at close centres and closer to the edges than expansion fixings.

Omega

The omega 21/18 Channel is a self-anchoring channel for use with Ancon wall ties. The shallow depth of 18mm allows the channels to be used where there is reduced cover to the reinforcement. Nail holes aid the fixing of the channel to timber formwork. If steel formwork is to be used, or the formwork is to be surface-vibrated, please seek advice from MCS's sales team.

30/20

Ancon 30/20 is a high performance channel. Its unique shape allows the applied load to be fed directly from the channel lips to the anchors and the more compact section size improves its fit between reinforcement. Specially designed T-head bolts ride up the sloping sides of the channel and securely lock behind the from lips. This channel also accepts standard 20mm wide wall ties.

AnconLock

AnconLock has teeth cut into the returned lips of the channel. The 'T' head bolts used to fix to this channel have a matching serrated surface on the underside of the head which provides a high resistance to slip under shear load along the line of the channel.

CombiDeck

Ancon CombiDeck has been developed to use with the permanent metal deck shuttering of steel frame structures. CombiDeck edge support is supplied with an integral channel section usually 30/20 channel, built into the side to accept Ancon 'T' head bolts.

SURFACE-FIXED CHANNELS

Plain-backed channels can be surface-fixed to steel, concrete and in some instances, masonry.

25/14

Ancon 25/14 accepts Ancon -25 wall ties and has been designed to the masonry cladding to steel frames including light section steel studwork. It is fixed to the steel at 450mm vertical centres with self-drilling screws. The channel is supplied with pre-punched holes at close centres to allow cutting on site and has a 16mm opening to accommodate a drive socket for the fixing screws.

Ancon Channel

Ancon Channels are produced in a range of profiles.

CHANNEL REFERENCE	STANDARD BOLTS	'T' BOLT LENGTH (MM)	TIGHTENING TORQUE (NM)	OTHER SIZE BOLTS	PREFERRED LENGTHS (MM)	STAINLESS STEEL		CARBON STEEL	HOT-DIPPED GALVANISED
						304	316/320		
21/18 -	-	-	-	-	100,3000	✓	✗	✗	✗
36/8	-	-	-	-	100,3000	✓	✗	✗	✗
25/14	-	-	-	-	800,1200,2700,3000				
28/15	M10	30,50,90	20	-	100,150,3000	✓	✓	✓	✓
38/17	M12	40,50,60	30	M16x50	100,150,3000	✓	✓	✓	✓
30/20	M12	50,100	50	-	100,150,3000	✓	✗	✗	✗
40/25	M16	50	70	-	1000,3000	✓	✓	✓	✓
41/27	M16	40,50,80	70	-	100,150,200,3000	✓	✓	✗	✗
49/30	M16	50,80	70	M12x50,M20x55	3000	✓	✓	✓	✓
54/33	M20	75	120	M12x50,M16x50	3000	✗	✓	✓	✓
72/49	M24	50,100	200	-	3000	✗	✓	✓	✓

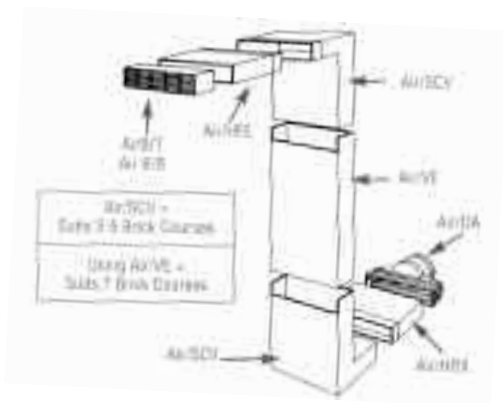
FIXING TO CHANNELS






Fixing to channels by 'T' head bolts. These are inserted into the channel and turned through 90°. The bolt must then be tightened to the correct torque. Tapped plate washers can be used as an alternative to 'T' bolts where non-standard bolt lengths or diameters are required.

RESTRAINT FIXINGS

Ancon wall ties can be used with 25/14, 28/15, 30/20, 38/17 and 36/8 channels in order to provide the necessary restraint to an outer leaf of masonry.

UNDERFLOOR TELESCOPIC VENT SYSTEM

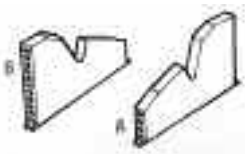


MCS CODE	DESCRIPTION	PACK SIZE
 MFAB/T	Air Brick - Terra	20
 MFAB/B	Air Brick - Buff	20
 PUFV	Periscopic Vent	20
 PUFVEXT	Vertical Extension	20
 HADAP100	Duct Adapter Suits 100mm Dia Duct	10

CAVITY WEEP HOLES




A dual weep vent to prevent water running into the adjacent cavity. Designed to meet NHBC guidance note.

Weep holes are recommended every 450mm maximum with at least 2 per opening above windows and doors.



Dual Purpose:

A: Concealed Weep
B: Exposed Weep

MCS CODE	DESCRIPTION	PACK SIZE
 RYTWEEP	Rytone Rytweep	20
 WHD	Rytone Weep Hole Duct	20
 SMVIN	Rytone Slim Vent® Minor	20

damp proof course

HYLOAD DPC

A Polymeric DPC that is ideal for damp proofing walls in brick, block, stonework and concrete in both solid and cavity wall construction. Hyload Original DPC holds Agreement certificate number 95/3133

Hyload Original is resistant to compression even under the heaviest of wall loading and unlike British Standards DPC's, it will not extrude under heavy loading. Hyload Original forms part of a comprehensive DPC System incorporating a range of standard and special pre-formed cavity tray units and a complete jointing system.

Advantages

- Specifically designed for domestic and commercial construction
- Product enables installer to comply with NHBC and Building Regulations
- 30 Year Product History
- BBA Approved
- Ideal for use in solid or cavity construction
- Easy to handle
- No extrusion under construction loads
- Suitable for beam and block flooring

RUBEROID
THE DPC EXPERTS



MCS CODE	ROLL WIDTH mm	m ² Per Roll
31510000	100mm	2m ²
31511250	112.5mm	2.25m ²
31512500	125mm	2.5m ²
31515000	150mm	3m ²
31522500	225mm	4.5m ²
31527500	275mm	5.5m ²
31530000	300mm	6m ²
31545000	450mm	9m ²
31560000	600mm	12m ²
31599900	1000mm	20m ²

NOMINAL WEIGHT (Kg/m ²)	NOMINAL THICKNESS (mm)	NOMINAL LENGTH (m/roll)
1.55	1.27	20



RUBBERCLOSE INSULATED DPC

Restricted Heat Loss and the elimination of cold bridges in window and door openings is very important in modern construction. These requirements are now specifically called for in Building Regulations - Approved Document L and form an important part of the recommendations of both NHBC, BRE and Robust Details documentation

Ruberclose Insulated DPC range meets all of these requirements

RUBEROID
THE DPC EXPERTS

MCS CODE	DCP STRIP SIZE	INSULATIONS WIDTH & THICKNESS (mm)
360165	8m x 165mm	100 x 17
360180	8m x 180mm	100 x 17
360225	8m x 225mm	140 x 17

DPC LAP ADHESIVE

A Synthetic rubber/resin mixture supplied in 500ml cans. It is suitable for bonding DPC to DPC and DPC to Pre-formed Units. One can gives coverage of approximately 3m² (i.e. 1.5m of bonded area)

RUBEROID
THE DPC EXPERTS

MCS	SIZE/CAN
96150000	500ml

DPC LAP MASTIC

A thick synthetic rubber mastic adhesive with gap filling properties up to 6mm suitable for bonding Ruberoid High Performance DPC's and Pre-Formed Units to a wide range of common building materials. Typical coverage on smooth surfaces is 1.2 to 2m² per litre. Hyload DPC Mastic is available in a tin for application by trowel or in a cartridge

RUBEROID
THE DPC EXPERTS

MCS	SIZE/CAN
29440000	400ml cartridge
29425000	2.5 Litre tin

CLOSER SELECTOR

PROFILE DETAIL	No. OF DCP PROFILES	STANDARD (A) WIDTHS (mm)	STANDARD LENGTH (mm)	INSTALLATION METHOD		
				FIXED TO THE FRAME AND BUILT IN	BUILT IN	RETRO FITTED
<p>Standard</p>	One	50, 65, 75 85, 90, 100 <small>(Other sizes manufactured to order 30m – 300mm)</small>	2500 <small>(Can be supplied cut to size in window sets)</small>	•	•	•
<p>Reveal</p>	One	50, 65, 75 85, 90, 100 <small>(Other sizes manufactured to order 30m – 300mm)</small>	2500 <small>(Can be supplied cut to size in window sets)</small>		•	•
<p>Weather Tight (WT)</p>	One	50, 65, 75 85, 90, 100 <small>(Other sizes manufactured to order 30m – 300mm)</small>	2500 <small>(Can be supplied cut to size in window sets)</small>		•	•
<p>Reverse</p>	One	50, 65, 75 85, 90, 100 <small>(Other sizes manufactured to order 30m – 300mm)</small>	2500 <small>(Can be supplied cut to size in window sets)</small>	•	•	•
<p>Super</p>	One	50, 65, 75 85, 90, 100 <small>(Other sizes manufactured to order 30m – 300mm)</small>	2500		•	•
<p>Double Standard</p>	Two	50, 65, 75 85, 90, 100 <small>(Other sizes manufactured to order 30m – 300mm)</small>	2500 <small>(Can be supplied cut to size in window sets)</small>	•	•	•
<p>Double Reveal</p>	Two	50, 65, 75 85, 90, 100 <small>(Other sizes manufactured to order 30m – 300mm)</small>	2500 <small>(Can be supplied cut to size in window sets)</small>		•	•
<p>Double WT</p>	Two	50, 65, 75 85, 90, 100 <small>(Other sizes manufactured to order 30m – 300mm)</small>	2500 <small>(Can be supplied cut to size in window sets)</small>		•	•
<p>Double Reverse</p>	Two	50, 65, 75 85, 90, 100 <small>(Other sizes manufactured to order 30m – 300mm)</small>	2500 <small>(Can be supplied cut to size in window sets)</small>	•	•	•

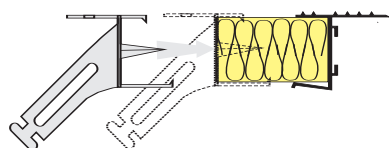
FIXINGS



For X Spec information and full technical specification, please refer to page 40.

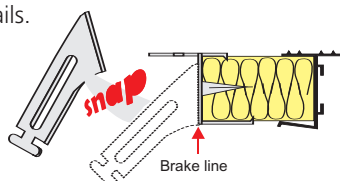
BUILDING THE CLOSER IN

As the wall is raised, simply push the universal fixing into the closer's insulation core at 225mm intervals around door openings and 450mm intervals around window openings and bed into the mortar joints.



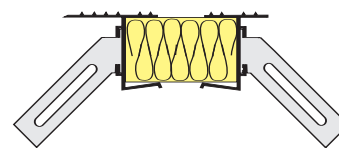
RETRO FIT

If the wall has already been constructed, simply snap the leg off the universal fixing and push the remaining bracket into the closer's insulation core at <450mm intervals. Push the closer into the cavity and secure with masonry nails.



BUILDING THE CLOSER IN USING XCC WALL TIES

Each XCC Double comes complete with twelve wall ties which are simply clipped into the closer's track at 225mm intervals around door openings and 450mm intervals around window openings and bedded into the mortar joints.



terms & conditions

1. DEFINITIONS

In these Terms:

"the Customer" means any party with whom the Company contracts; "The Company" means Midland Construction Supplies Limited; "the Goods" means the goods supplied by the Company to the Customer under the contract on the basis of these Terms ("the Contract").

2. GENERAL

- (a) Except to the extent that such provisions of the Sale of Goods Act 1979 as are non-excludable otherwise provide the conditions together with such provisions of the said Act as are not inconsistent herewith shall apply to all sales by us and shall form the basis of a contract between us and the customer.
- (b) No variation of these conditions shall be effective unless made in writing and signed by an authorised Officer or employee of ours; at the request of the customer we shall verify whether any named individual has the requisite authority.
- (c) Unless otherwise agreed in writing these conditions shall prevail over any inconsistent terms implied by Law or by trade custom, practice or course of dealing and any such inconsistent terms are hereby expressly excluded.
- (d) No waiver by the Customer of any breach of the Contract by the Customer shall be considered as a waiver of any subsequent breach of the same or any other provision.
- (e) If any provision of these Terms is held by any competent authority to be invalid or enforceable in whole or in part of the validity of the other provisions of these Terms and the remainder of the provision in question shall not be affected thereby.
- (f) The Contract shall be governed by the laws of England and the parties hereby submit to the exclusive jurisdiction of the English Courts.

3. BASIS OF THE SALE

- (a) No order submitted by the Customer shall be binding on the Company unless and until it is accepted over the telephone by an authorised representative of the Company and/or confirmed in writing by the Company.
- (b) Any representation or warranty in relation to the Goods made prior to the Contract is expressly excluded.
- (c) If a sample of the Company's goods shall be produced to and/or inspected by the Customer, this shall not constitute a sale by sample and the Goods will not necessarily conform to sample.
- (d) Any quotation given by the Company is an invitation to the Customer to place an order only within 30 days of the quotation date or such time as is agreed.

4. PRICE

- (a) All prices quoted are based on costs ruling at the date of quotation, (excluding VAT). If there are any alterations in these costs we reserve the right to alter the prices and will notify the customer in writing thereof. Thereafter the customer shall have the right to cancel the order on the written notice to that effect being given to us within seven days of the date of the written notice from us giving the alteration price.
- (b) Unless otherwise stated the Price is ex-works and exclusive of delivery and packing charges.
- (c) Unless otherwise agreed, the cost of pallets and packaging will be charged to the Customer in addition to the Price. Credit will be given to the Customer (where agreed with the Company) provided such pallets and packaging are returned undamaged to the Company or its supplier within the time notified to the Customer.

5. PAYMENT

- (a) In the absence of any concession to the contrary by us from time to time accounts are due and payable no later than 30 days from month end. The time of payment shall be of the essence.
- (b) If the Customer fails to pay to us any amounts on the due date
 - (i) we shall have the right to cancel any Contract made with the Customer and/or to suspend or continue delivery of goods and materials at the Company's option without prejudice to the Company's right to recover damages for any loss sustained by it.
 - (ii) The outstanding sum shall carry interest at the rate of 4% above HSBC Plc base rate from time to time and for the time being in force per month.
 - (iii) The whole of the balance of the price of this Contract and all other Contracts invoiced shall immediately become due and payable.

6. QUERIES

Any invoice discrepancies including proof of deliveries, must be advised in writing by the Customer within 14 days from date of invoice.

7. DELIVERY

- (a) Delivery of the Goods shall be made by the Customer collecting the Goods at the Company's premises or, if a place for delivery is agreed by the Company, by the Company delivering the Goods to that place.
- (b) Any dates quoted for delivery of the Goods are approximate only and the Company shall not be liable for any delay in the delivery of the Goods. Time for delivery of the Goods shall not be of the essence unless previously agreed by the Company in writing. The goods may be delivered by the Company in advance of the quoted delivery date upon giving reasonable notice to the Customer.
- (c) The delivery address must be stated in full on the Customer's official purchase order, any changes to the stated delivery address must be made in writing to the Company not less than five working days before the delivery date. The Customer shall ensure that the Company's delivery vehicle shall have proper access to any agreed delivery site. The Company will not deliver Goods over roads or ground that in the Company's (or its authorised representative's) opinion are considered to be unsuitable. The Customer shall indemnify the Company in respect of all costs, claims, losses or expenses which the Company may incur as a result of delivery to the Customer's delivery site or any other place subsequently nominated by the Customer for delivery.
- (d) Damage, shortage and pilferage: any damage, shortage or pilferage in transit to Goods must be notified in writing to us within 2 days of delivery and also all damage, shortage or pilferage to Goods apparent at the time of delivery, must be noted on the Carrier's delivery note at the time of delivery otherwise we cannot consider accepting liability. Non-Delivery of Goods must be notified in writing to us within 14 days of our invoice relating thereto otherwise we cannot consider accepting liability.

8. SUITABILITY OF GOODS

The Customer is responsible for the suitability of the goods and materials bought. No warranty is given nor shall any warranty or condition be implied that the Goods are

reasonably fit and suitable in size, shape, capacity, quality or otherwise for the purpose for which they are bought and we shall not be under any liability whatsoever due to any Goods being unfit or suitable.

9. RISK AND RETENTION OF TITLE

Risk of damage to or loss of the Goods shall pass to the Customer:

- (a) In the case of Goods to be collected by the Customer from the Company's premises at the time when the Customer collects the Goods; or
- (b) In the case of Goods to be delivered by the Company at the time of delivery or, if the Customer wrongfully fails to take delivery of the Goods, at the time when the Company has tendered delivery of Goods.
- (c) Notwithstanding the above condition the property in the Goods shall remain with the Company until full payment of all monies owed to it by the Customer for any and all orders governed by these Conditions shall have been received or until prior resale.
- (d) Until full payment has been made the Customer shall hold the Goods only as the Company's bailee and will keep same at no cost to the Company so that they are clearly identified as belonging to the Company.
- (e) The Customer shall keep the Goods properly housed and protected and shall store them separately and in such a way that they can be readily identified as being the Company's property and the Customer agrees that any Goods of a particular make and type distributed by the Company shall be presumed to have been supplied by the Company unless the Customer can prove to the contrary;
- (f) The Customer must at its own expense insure and keep insured all Goods which are the Company's property against all the risks which it would be prudent to insure against with a reputable insurance company and must, if the Company so requests cause the Company's interest to be noted on the policy or policies of insurance which shall be made available to the Company for inspection;
- (g) The Customer may sell the Goods in the ordinary course of business and on commercially reasonable terms.
- (h) Where the Goods are situated on a third party's premises the Customer shall oblige such third party to ensure that at all times the Customer is in compliance with its obligations under (e) above and to agree to permit the Company to enter upon the third party's premises and remove the Goods should the Company have revoked the Customer's authority to sell them.
 - (i) The Company may at any time by written or oral notice revoke as to all or any Goods not previously sold by the Customer the authority given to it under Clause
- (g) Upon such revocation the Customer shall hold such Goods to the Company's order, shall not dispose of them in any way without the Company's consent and shall permit the Company to enter upon any premises where the Goods are located and to recover the same.
- (j) The proceeds of any Goods disposed of with the Company's consent after such revocation shall be transferred to the Company absolutely without any deduction whatsoever, the customer having no interest in them or in any part of them, and until such transfer shall be held on trust for the Company as its absolute property. Such proceeds shall be kept separate from the Customer's own monies and from all other accounts (the Customer being required to open a separate account for receiving such proceeds of sale and to notify the Bank where the account is held of the Company's interest in those proceeds of sale). When the Company has actually received payment for the Goods so disposed of the Company shall credit the Customer's account with an amount equal to the value of such payment, appropriating it in such manner as the Company shall choose.
- (k) For the purpose of clause (j) "proceeds" means money, right or other thing, tangible or intangible, received in exchange for the Goods.

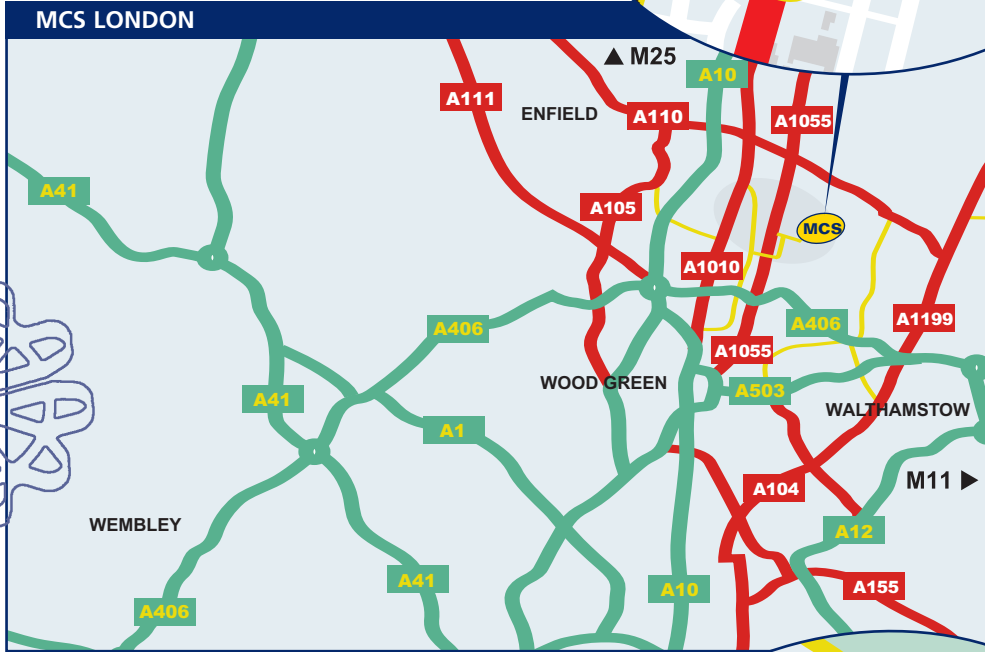
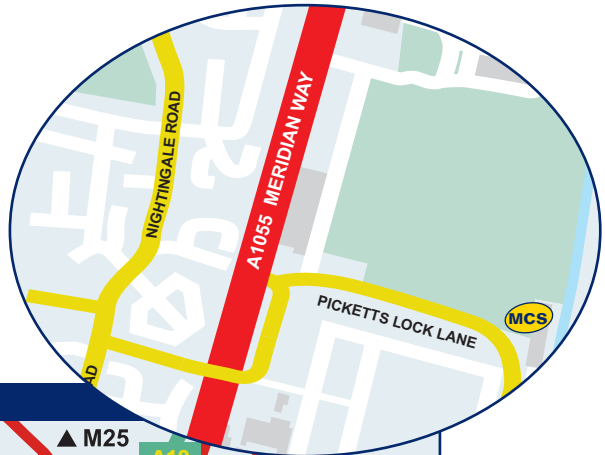
10. WARRANTIES AND LIABILITY

- (a) No condition or warranty is given by the Company or to be implied as to the life of Goods or that they will be suitable for any particular purpose/or for use under any specific conditions even where the same have been made known to the Company.
- (b) Subject as expressly provided in these Terms, and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977), all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.
- (c) Except in respect of death or personal injury caused by the Company's negligence, the Company shall not be liable to the Customer for any reason whatsoever which arises out of or in connection with the supply of the Goods or their use or resale by the Customer. The Company shall not be liable to the Customer or any third party for any indirect or consequential loss or damage or for any loss of profit.
- (d) The Company shall not be liable to the Customer or be deemed to be in breach of the Contract by reason of any delay in performing, or any failure to perform, any of the Company's obligations in relation to the Goods, if the delay or failure was due to any cause beyond the Company's reasonable control.
- (e) The customer shall indemnify the Company against all actions, claims or demands by third parties against the Company howsoever arising in respect of or in connection with the Goods or the Contract by the Company to supply the same upon these Terms.

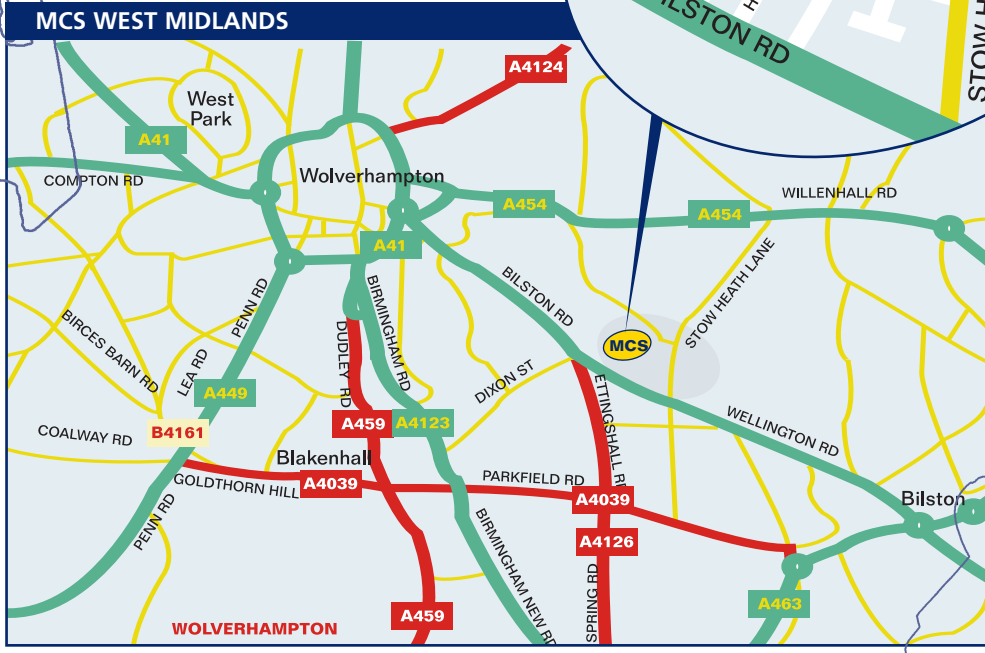
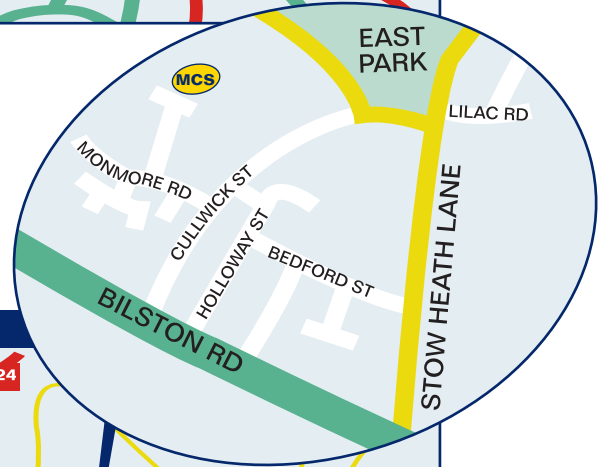
11. BREACH AND INSOLVENCY

In the event that:-

- (a) The Customer shall commit any breach of the Contract and fail to remedy such breach (if capable of remedy) within a period of 30 days from receipt of notice in writing from the Company requesting such remedy; or
- (b) Any distress or execution is levied upon the goods or property of the Customer; or
- (c) The Customer offers to make arrangements with or for the benefit of its creditors or commits any act of bankruptcy or, being a limited company, has a Receiver, Administrative Receiver or Administrator appointed over the whole or any part of its undertakings property or assets; or
- (d) Any order is made or a resolution is passed or analogous proceedings are taken for the winding up of the Customer (save for the purposes of reconstruction or amalgamation without insolvency and previously approved in writing by the Company); then and in any such case the Company shall be entitled without prejudice to its other rights hereunder forthwith to suspend all further deliveries to the Customer whether under this Contract or otherwise until the default has been made good or to terminate the Contract or any part thereof. Notwithstanding any such termination, the Customer shall pay the Company for all goods delivered up to and including the date of termination.



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