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	AUG 2016	

### AUG 2016





# **INSULATED** CAVITY CLOSERS

FRAME FORMERS | INSULATED DPC'S













### CONTENTS

	PAGE
Why use a Cavity Closer?	2
INSULATED CAVITY CLOSERS	
Supafix	3
Supafix Flexicloser	4
SF Multicloser	5
TF Multicloser	6
TF1000	7
TF2000	8
FIRE RATED CAVITY CLOSERS	
Supafix Fire Rated	9
TFR1000 Fire Rated	10
TFR2000 Fire Rated	11
XFR2000 Fire Rated	12
FRAME FORMERS	
FF4/5000	13
D2000	13
INSULATED DPCs	
Dacaproof	15
Dacablock Fire Rated	15
Dacastop Fire Rated	15
Dacasock Acoustic Fire Stop	16
ACCESSORIES	
Fixing Ties	16
Insulation Data	18-19

QPSLean

At QPSL we embrace the five Lean principles:

- » Create Value as our customers see it.
- » Improve Value Stream to do things that create Value for our customers.
- » Generate Flow to eliminate job queues.
- » Allow Customer Pull to make and deliver what the customer wants, when they want.
- » Strive for Perfection and never to be satisfied. We, all of us at QPSL, will always find better ways of providing value.

We are always Learning to be Leaner.

## Why use a Cavity Closer?

### HEAT LOSS AND COLD PENETRATION

The problems of cold bridging are recognised in the Part L Building Regulation 2010 and Scottish Building Regulations 2004 (amended 2013). Dacatie Insulated Cavity Closers are used to overcome thermal loss that occurs around unprotected cavities and reveals. Thermal loss can result in problems of condensation, staining and mould growth at the reveals of these openings. Prolonged exposure to such factors will lead to a deterioration of the internal plaster and paint work. The use of Dacatie Cavity Closers will help to prevent the occurrence of such factors.





### PREVENT MOISTURE PENETRATION

The use of a Dacatie Cavity Closer or frame former will prevent the ingress of water around a window or door, as required for compliance with Part C of the Building Regulations. To achieve this it is important to specify a frame setback position of 30mm with a recognised sealant around the frame.

### CREATE A FIRE BARRIER FOR PART 'B' COMPLIANCE

Where a fire barrier is required, a Dacatie Fire Rated Cavity Closer (pages 9-12) should be used. The closers have fire integrity ratings from 30 minutes to an hour.





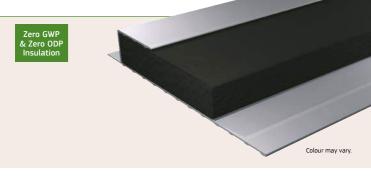
### COMPLY WITH PART L OF THE BUILDING REGULATIONS

Building Regulation (Part L) compliance is important. The minimum thermal resistance path through the closer must be at least 0.45 m<sup>2</sup>K/W. Dacatie Closers well exceed this required value.







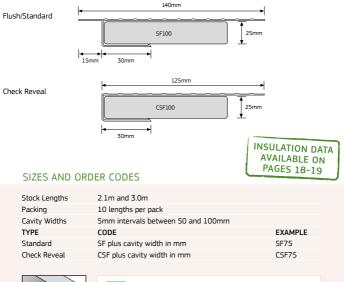


Flush: Severe (with 30mm set back) Check Reveal: Very Severe

### USAGE

A versatile and economic PVCu insulated closer for cavity widths between 50 and 100mm. Second fix applications.

- » Complies with new Part L Building Regulations 2010
- » Accepts all window and door frame material
- » Zero GWP Zero ODP





3 Patent no. GB 2305 448 C



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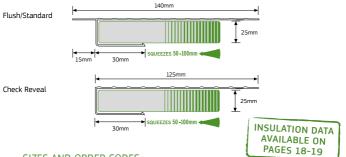


Flush: Severe (with 30mm set back) Check Reveal: Very Severe

### USAGE

Supafix Flexicloser is easy to use to achieve building regulations where cavity widths are unknown or vary on site. The product is a particularly useful solution in a second fix installation when a frame former is not required.

- » Insulation with Ecose technology Green Guide Rating A+
- » Zero GWP Zero ODP
- » BRE Compliant (Doc. L 2010)
- » One size fits all 50 100mm
- » 60Kg/m<sup>3</sup> Density



### SIZES AND ORDER CODES

Stock Lengths	2.4m	
Packing	10 lengths per pack	
Cavity Widths	100mm - compresses down to 50mm	
TYPE	CODE	EXAMPLE
Standard	SF Flexicloser	SF Flexi
Check Reveal	CSF Flexicloser	CSF Flexi



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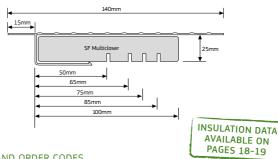


Flush: Severe (with 30mm set back) Check Reveal: Very Severe

### USAGE

A versatile and economic PVCu insulated closer for cavity widths between 50 and 100mm. Second fix applications.

- » Economic and versatile on site (easily trimmed)
- » One profile suits 5 cavity widths insulation trimmed on site
- » Complies with new Part L Building Regulations 2010
- » Accepts all window and door frame material
- » Insulation is zero rated for ozone depletion potential (ODP)



### SIZES AND ORDER CODES

Stock Lengths	
Packing	
Cavity Widths	
TYPE	
Standard	
Check Reveal	

2 4 m 10 lengths per pack 50, 65, 75, 85 and 100mm CODE SF Multi CSF Multi

**EXAMPLE** SF Multi CSF Multi



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5

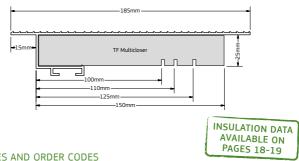


Flush: Severe (with 30mm set back) Check Reveal: Very Severe

### USAGE

A versatile insulated cavity closer that is easy to use to achieve building regulations where cavity widths are 100mm - 150mm. Can be used for first or second fix.

- » Complies with new Part L Building Regulations 2010
- » Overcomes cavity width variations with one profile to cover 4 cavity widths.
- » Easy to install



### SIZES AND ORDER CODES

Stock Lengths	
Packing	
Cavity Widths	
TYPE	
Standard	
Check Reveal	

2 4 m 6 lengths per pack 100, 110, 125 and 150mm CODE TF Multicloser CTF Multicloser

FXAMPI F TF Multi CTF Multi





» Contractor info » Stockists

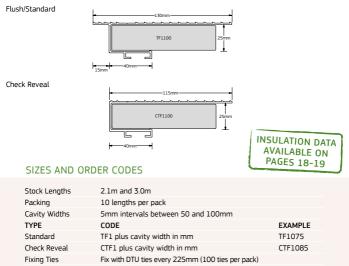


Flush: Severe (with 30mm set back) Check Reveal: Very Severe

### USAGE

A versatile insulated closer for cavities between 50 and 100mm (5mm increments). Suitable for first or second fix applications. Check revealoption also available.

- » Complies with new Part L Building Regulations 2010
- » Accepts all window and door frame material
- » Insulation is zero rated for ozone depletion potential (ODP)





For first fix installations use FIXING TIES on page 16

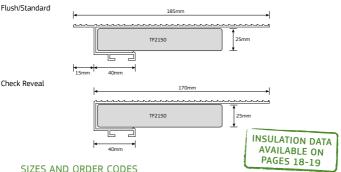


Flush: Severe (with 30mm set back) Check Reveal: Very Severe

### USAGE

A versatile insulated closer for wider cavities between 110 and 160mm (5mm increments). Suitable for first or second fix applications. Check reveal option also available.

- » A closer for wider cavities 110 160mm (160+POA)
- » Complies with new Part L Building Regulations 2010
- » Accepts all window and door frame material
- » Insulation is zero rated for ozone depletion potential (ODP)



### SIZES AND ORDER CODES

Stock Lengths	2.1m and 3.0m	
Packing	6 lengths per pack	
Cavity Widths	5mm intervals between 110 and 160mm	
TYPE	CODE	EXAMPLE
Standard	TF2 plus cavity width in mm	TF2120
Check Reveal	CTF2 plus cavity width in mm	CTF2140
Fixing Ties	Fix with DTU ties every 225mm (100 ties per pack)	



WIDER CAVITY WIDTHS Up to 300mm can be closed with these profiles as "Specials". Available only on request.

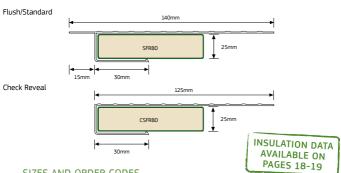


Flush: Severe (with 30mm set back) Check Reveal: Very Severe

### USAGE

Supafix Fire Rated (SFR) is a PVCu cavity closer with mineral wool insulation offering 60 minute fire integrity. It can be used in conjunction with any window or door material or system, is suitable for second fix applications & timber frame construction.

- » 60 minute Fire Integrity
- » Complies with new Part L Building Regulations 2010
- » Accepts all window and door frame material
- » 140Kg/m<sup>3</sup> Density



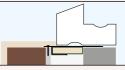
### SIZES AND ORDER CODES

Stock Lengths Packing Cavity Widths **TYPE** Standard Check Reveal 2.4m 10 lengths per pack 50 - 100mm **CODE** SFR plus insulation width in mm CSFR plus insulation width in mm

STANDARD INSTALLATION



TIMBER FRAME INSTALLATION



EXAMPLE SFR80 CSFR100



9

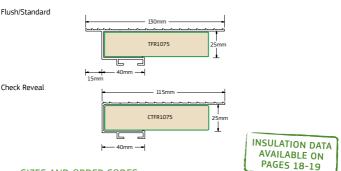


Flush: Severe (with 30mm set back) Check Reveal: Very Severe

#### USAGE

TFR1000 has a rigid PVCu profile containing a mineral wool insulation that forms a continuous fire rated insulated cavity closer around door and window openings. Suitable for first or second fix applications. Check reveal option also available.

- » 60 mins Fire Integrity
- » Complies with new Part L Building Regulations 2010
- » Accepts all window and door frame material
- » 140Kg/m<sup>3</sup> Density



### SIZES AND ORDER CODES

Stock Lengths	2.4m	
Packing	10 lengths per pack	
Cavity Widths	50 - 100mm	
TYPE	CODE	EXAMPLE
Standard	TFR1000 plus insulation width in mm	TFR80
Check Reveal	CTFR1000 plus insulation width in mm	CTFR100
Fixing Ties	Fix with DTU ties every 225mm (100 ties per pack)	



Patent no. GB 2305 448 C

For first fix installations use FIXING TIES on page 16

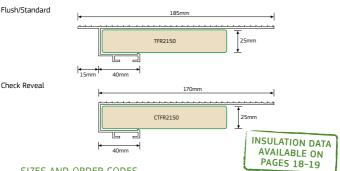


Flush: Severe (with 30mm set back) Check Reveal: Very Severe

### USAGE

TFR2000 has a rigid PVCu profile containing a mineral wool insulation that forms a continuous fire rated insulated cavity closer around door and window openings. Suitable for first or second fix applications. Check reveal option also available.

- » 30 mins Fire Integrity
- » Complies with new Part L Building Regulations 2010
- » Accepts all window and door frame material
- » 140Kg/m<sup>3</sup> Density



### SIZES AND ORDER CODES

Stock Lengths	2.4m	
Packing	6 lengths per pack	
Cavity Widths	5mm intervals between 110mm & 160mm	
TYPE	CODE	EXAMPLE
Standard	TFR2000 plus insulation width in mm	TFR2160
Check Reveal	CTFR2000 plus insulation width in mm	CTFR2160
Fixing Ties	Fix with DTU ties every 225mm (100 ties per pack)	



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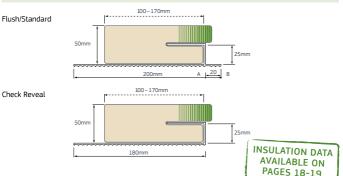


Flush: Severe (with 30mm set back) Check Reveal: Very Severe

### USAGE

XFR2000 is a fire rated insulated cavity closer with mineral wool insulation for wider cavities. It is suitable for second fix installations when a fire barrier is required.

- » 60 minute Fire Integrity / 30 minute Fire Insulation
- » Complies with new Part L Building Regulations 2010
- » Accepts all window and door frame material
- » 100Kg/m<sup>3</sup> Density



### SIZES AND ORDER CODES

Stock Lengths	2.4m	
Packing	4 lengths per pack	
Cavity Widths	100 - 125 - 150 - 170mm*	
TYPE	CODE	EXAMPLE
Standard	XFR plus insulation width in mm	XFR2100
Check Reveal	CXFR plus insulation width in mm	CXFR2170



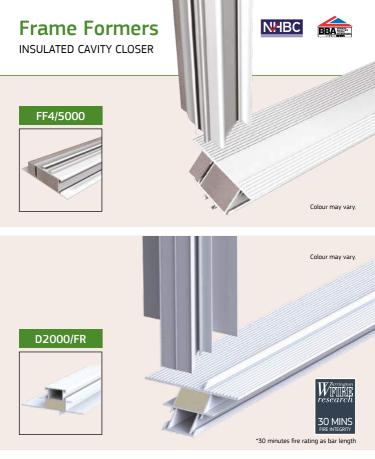
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Patent no. GB 2305 448 C



Flush: Severe (with 30mm set back) Check Reveal: Very Severe

### USAGE

A fully insulated cavity closer made up into sturdy factory built frame former eliminating the need for site fabricated timber templates around window and door reveals.

### FIXING METHODS

Frame formers can be manufactured with welded corners or using corner brackets - both available through Dacatie. Contact us for further details.

- » Saves time on site
- » Part L 2010 compliant
- » Accepts all window and door materials
- » Insulation is zero rated for ozone depletion potential (ODP)
- » Available in two profiles FF4000 and FF5000 (for internal fixing)
- » Cavity Widths: FF4000: 75 110mm, FF5000: 110 160mm
- » D2000 also available as a 50 100mm fire rated frame former (FR)

# **Ordering & Installation**

# (a) (b) (a) = brick to brick width (b) = brick to limitel height

### HOW TO ORDER

For Dacatie Frame Former, the following information should be supplied:

Overall width (a - structural opening)	mm
Overall height (b - structural opening)	mm
Cavity width	mm
Three or four sided former	3/4
Plaster stop required? (30mm offset)	yes/no
Check reveal	yes/no
	Overall height (b - structural opening) Cavity width Three or four sided former Plaster stop required? (30mm offset)

It is the responsibility of the contractor to ensure frames are supplied as ordered before installation, as no responsibility for any incorrect dimensions can be considered after the frame former has been built into the brickwork. **Note:** when ordering for timber frame constructions, please contact our technical department.

### APPLICATION/FIXING DETAILS

The Dacatie frame Former is suitable for use with all window and door frames, including timber, PVCu and aluminium. For easy installation follow these steps.

### Step 1

Build wall up to sill height and locate the Dacatie Frame Former in the cavity (check former is square and propped up vertically).

### Step 2

Build up courses of brickwork/blockwork inserting brick ties alternately between the brick and the block every 225mm (every three bricks or every course of block work).

### Step 3

Brick up to lintel height and remove bracing (if applicable).

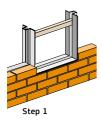
### Step 4

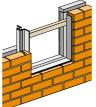
Build in lintel and upper brickwork.

### NOTES FOR WINDOW AND DOOR INSTALLATION

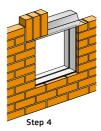
Check window or door is within tolerances; windows should be 10mm less than inside width of former and 8mm less than the inside height of former. Fix with standard window fixings (e.g. lugs, reveal straps or bolt fixings).

### Non standard shapes available









### Dacaproof, Dacablock & Dacastop

### INSULATED DPC



- » Economical
- » Easy to install as brickwork is constructed
- » CFC and HCFC free
- » Dacablock provides 60 minutes Fire Integrity with mineral wool insulation (MW)
- » Dacastop provides Vertical and Horizontal applications

### Dacaproof



Product	Size	Insulation	Length	No / Pack
DP1	165 x 100 x 18mm	EPS	2.5m	10
DP2	225 x 150 x 18mm	EPS	2.5m	10
DP3	165 x 100 x 12mm	PE	10m coil	5
DP4	225 x 150 x 12mm	PE	10m coil	5

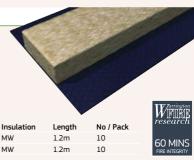
### **Dacablock Fire Rated**



Product

DB5

DB6



### **Dacastop Fire Rated**

Size

165 x 100 x 25mm

225 x 150 x 25mm

Size

360 x 260 x

400 x 300 x 75mm

500 x 150 x 75mm

600 x 250 x 75mm





 Product

 Vertical

 DS1/75 or 100

 DS2/75 or 100

 Horizontal

 DS3/75 or 100

 DS4/75 or 100

UNCTION	
	Insulati
75mm	MW

MW

MW

MW

tion Length

1.2m

1.2m

1.2m

1.2m

No / Pack

5

5

5

5



## Daca Multisock Acoustic Fire Stop

INSULATED DPC

INTEGRIT Designed to prevent fire penetration, aid reduction of sound transmission and help RATING maintain the thermal integrity of the insulation requirements under Building Regulations through wall cavity in both masonry / block and brick timber frame and steel cavity wall structures.

1.2m length of semi rigid ECOSE™ mineral wool slab fully encapsulated in a recycled polythene printed sleeve, supplied winged.

- » Economical
- » Easy to install
- » Vertical and horizontal application
- » Non-combustible
- » Chemically inert
- » Does not rot or degrade
- » Will not grow fungi, mould or bacteria
- » Will not support vermin



HOUR FIRE



**N/HBC** 

Also available, DACATIE MULTISOCK WIDE 200mm & 300mm (std) and 225 & 450mm (to order) Wide Cavity Socks to suit cavity sizes from 40 to 225mm.

Product	Cavity Width	No / Pack	Colour	Product	Cavity Width	No / Pack	Colour
MDK50-STD	40-50mm	40	Red	MDK185-STD	166-185mm	6	Purple
MDK65-STD	51-65mm	30	Blue	MDK205-STD	186-205mm	4	Green
MDK75-STD	66-75mm	25	Pink	MDK225-STD	206-225mm	4	Pink
MDK90-STD	76-90mm	20	Purple	MDK250-STD	226-250mm	4	Blue
MDK100-STD	91-100mm	20	Green	MDK265-STD	251-265mm	4	
MDK120-STD	101-120mm	15	White	MDK285-STD	266-285mm	4	
MDK130-STD	121-130mm	15	Brown	MDK295-STD	286-295mm	4	
MDK140-STD	131-140mm	15	Red	MDK315-STD	296-315mm	4	
MDK150-STD	141-150mm	12	Yellow	MDK335-STD	316-335mm	4	
MDK165-STD	151-165mm	12	Grey	MDK350-STD	336-350mm	4	

# Accessories

FIXING TIES

### **DTS Fixing Ties**

Ideal for Porotherm construction



- Product Size Material No / Pack
- DTS Fixing Tie 0.6mm Steel 100

### **DTU Fixing Ties**



Product	
Thickness	
Material	
No / Pack	

DTU Uni-Tie 2mm Polypropylene 100

# Cavity Closer fitting guidelines

### CAVITY CLOSER ORIENTATION





Note: not to scale - showing orientation only

### FIRST FIX

When building cavity closer into the brick/block work using a timber former or window. Products: TF1000, TF2000, TFR1000, TFR2000, TF Multi - Standard and Check Reveal.

- a. If using a timber former, make an accurate timber template the same size as the structural opening.
- b. Cut closer to the size of the sill and jamb adding a minimum of 50mm run on at the base of the jambs.
- c. Tack/nail the cavity closer to the window or former along the sill and jamb ensuring the run on is at the base of the jamb.
- d. Remove the relevant flanges on the run on so you are left only with the cavity width portion.
- e. If building in the window, position the frame with 30mm overlap of cavity closer from the inside of the outer skin. (For Check Reveal installations position the closer flush with the outside of the window, with the closer's single flange projecting to the inside).
- f. Build the inner and outer skins up to the sill level.
- g. Position the window/former with the cavity closer attached onto the sill in the required position.
- h. Ensure the timber window/former is level and upright then prop up in position.
- i. Build up the two skins ensuring that they butt up tight to the closer.
- j. Use a Dacatie fixing tie every 225mm alternating between the two skins as you build up to the height of the window/former.
- k. For check reveal installations, build inner skin up to the inside flange of the cavity closer and butt to the outer skin – allowing for the required check reveal overlap.

### SECOND FIX

Used where the cavity is already formed eg. Refurbishment work. Products: SF, SF Multi, SF Flexi, SFR, TF Multi, XFR2000 – Standard and Check Reveal (first fix products can also be installed using this method).

- a. Follow stages 1a. and 1b. to cut the closer to size.
- b. When using a multi width cavity closer, cut the insulation to cavity size.
- c. Push fit the closer into the jamb cavity opening ensuring the orientation is correct (exposed insulation points towards the internal skin).
- d. Push fit the sill section in place, ensuring the correct orientation. Check the closer butts up to the jambs.
- e. To secure in place, use galvanised or non-ferrous nails or screw through the flange into masonry.
- f. For check reveal installations, cut to size as mentioned, ensure the single flange sits on the internal skin, and the front butts up against the inside of the external skin.

#### If you require further installation guidance please visit the website or call 0161 627 4222.

Please note: above guidelines are based on 3 sided window installations for 3+ sides please contact Dacatie. The guidelines have been produced to aid the installer, Dacatie cannot be held responsible for the installation of their products on site.

# FABRICATING TIMBER WINDOWS? **qwood.co.uk**

### **DACATIE** Insulated Cavity Closers

INSULATION ENVIRONMENTAL DATA

### GWP LEVELS LESS THAN 5, ODP ZERO AND GREEN GUIDE A+

Dacatie Insulated Cavity Closers offer different insulation materials with the option of GWP levels of <5, ODP levels of zero and Green Guide ratings of A+.



### BREEAM (and Code for Sustainable Homes)

BRE has advised that Insulated Cavity Closers as a product do not gain Green Guide credits, since they do not enhance BREEAM scheme categories.

### BUILDING REGULATIONS

Building Regulation (Part L) compliance is important. The path of minimum thermal resistance through the closer must be at least 0.45  $m^2$ K/W, which Dacatie closers achieve.

### **RECYCLED CONTENT**

All Dacatie Cavity Closers are produced with a recycled content of approx. 50%. The materials used predominately comprise a blend of post-consumer and/ or post-industrial recycled material. The insulation materials used can typically contain a recycled content of approx. 5%.

Product ***	Insulation	Cavity widths	ISO 9001:	BBA Certificate	Part L* Compliance	Robust Detail	INSULATION ¥90/90	(25MM THIC <b>R value</b>	K EXCEP	T XFR200	0 & DPCs) Green		IER RATING Check	Fire Integrity
		mm	2008		2010	BR262	W/mK	m²K/W			Guide	s/b	Reveal	Minutes
CAVITY CLOSERS														
Supafix SF	EPS	50 - 100	~	~	~	~	0.038	0.658	0	zero	A+	Severe	Very Severe	n/a
SF Multicloser	EPS BLACK	50 - 100	~	~	~	~	0.032	0.781	0	zero	A+	Severe	Very Severe	n/a
SF Flexicloser****	ECOSE RS60**	50 - 100	~	~	~	~	0.037	0.676	0	zero	A+	Severe	Very Severe	n/a
TF Multicloser	EPS BLACK	100 - 150	~	~	~	~	0.032	0.781	0	zero	A+	Severe	Very Severe	n/a
TF1000	EPS BLACK	50 - 100	~	~	~	~	0.032	0.781	0	zero	A+	Severe	Very Severe	n/a
TF2000	EPS BLACK	110 - 160	~	~	~	~	0.032	0.781	0	zero	A+	Severe	Very Severe	n/a
FF4000/FF5000	EPS	75 – 170	~	~	~	~	0.038	0.658	0	zero	A+	Severe	Very Severe	n/a
Supafix Fire Rated SFR	ECOSE RS140	50 - 100	~	~	~	~	0.036	0.694	0	zero	В	Severe	Very Severe	60
TFR1000 Fire Rated	ECOSE RS140	50 - 100	~	~	~	~	0.036	0.694	0	zero	В	Severe	Very Severe	60
TFR2000 Fire Rated	ECOSE RS140	110 - 160	~	~	~	~	0.036	0.694	0	zero	В	Severe	Very Severe	30
XFR2000	ECOSE RS100	100 - 170	~	~	~	~	0.036	1.389	0	zero	A+	Severe	Very Severe	60
INSULATED DPC														
Dacaproof	PE (12mm)	n/a	~				0.040	0.300	0	zero	A+	n/a	n/a	n/a
	EPS (18mm)	n/a	~				0.038	0.474	0	zero	A+	n/a	n/a	n/a
Dacablock (75mm)	ECOSE RS60	n/a	~				0.037	2.027	0	zero	A+	n/a	n/a	60
(100mm)		n/a	~				0.037	2.703	0	zero	A+	n/a	n/a	60
Dacastop (75mm)	ECOSE RS60	n/a	~				0.037	2.027	0	zero	A+	n/a	n/a	60
(100mm)		n/a	~				0.037	2.703	0	zero	A+	n/a	n/a	60
Dacasock	ECOSE RS45	n/a	~				0.037	-	0	zero	A+	n/a	n/a	240

### NEED MORE HELP?

Download our app for all the latest product information. Just search the Dacatie app on the App Store & Google Play or scan here:



QPSL Group strives for continuous improvement in our environmental, health and safety management systems and in the environmental quality of our products, processes, and services. n/a = not applicable.

- Path of minimum thermal resistance > 0.45 m<sup>2</sup>K/W (Assign default heat loss - Ψ values – rates in accordance with BRE paper IP 1/06).
- \*\* Ecose is a registered Trade Mark of Knauf Insulation.
- \*\*\* Closers include extruded PVCu carrier (GWP <5) of which 5% recycled. Produced under BS EN ISO 9001:2000. PVCu sourced from ISO 14001 rated UK suppliers.
- \*\*\*\* Best environmental option.

#### Insulation thickness.

Cavity closers: 25mm (Except XFR2000 - 50mm thickness) Insulated DPCs: See guide for details.

# WANT MORE?



More information available from the website



Online specification video, how to pick the right closer. (RIBA Approved CPD)



CAD drawings available online





www.dacatie.co.uk



TIMBER COMPOSITE BEADS FOR WINDOW FABRICATORS









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