CE Marking

A British Plastics Federation Guide for Window and Doorset Fabricators
Foreword

This guidance has been prepared jointly by the BPF, British Standards Institute (BSI) and the British Board of Agrément (BBA). It represents the views of the authors but cannot be authoritative as it involves interpretation of EU legislation.

*The legal responsibility for CE marking and the Declaration of Performance lies with the manufacturer. While your system supplier may be able to assist you, he cannot do it for you.*

At the moment of the publication all the information provided was correct. Any future changes on legislation are not reflected in this edition.

May 2013
What is CE marking?

CE marking indicates that a product conforms to legal requirements in specific European technical standards known as harmonised European Norms (‘hEN’).

It enables a product to be placed legally on the market in any European member state. However, regulatory requirements may differ from country to country. Note, this will mean Scotland, Wales and Northern Ireland in the future as the devolved administrations have responsibility for Building Regulations in their countries.

The CE marking symbol is placed on either the product or the packaging accompanying the product.

This guide is intended for manufacturers who make external windows and doors but excludes fire and smoke control windows and doors, although much of the guidance will apply in the latter.

The manufacturer is the company that brings together the frame and the glazing, i.e. a company that buys frames from one source and IGUs from another is deemed to be the manufacturer under the CPR and is therefore legally responsible for CE Marking.

Why is it necessary?

From 1st July 2013, the Construction Products Regulation 2011 (CPR) will replace the Construction Products Directive (CPD). Under the CPD, CE Marking has been voluntary and few manufacturers have bothered CE Marking. Under the CPR (available from the BPF website), CE Marking becomes mandatory taking effect on 1st July 2013.

What do you need to do to comply with CE marking requirements?

The following checklist will guide you through the CE marking process:

1. Define your product ranges, e.g. casement, tilt/turn, residential doors.
2. Review Annex ZA within BS EN 14351-1
3. The required characteristics for the UK are strength of any fitted safety devices, the presence of any dangerous substances and the thermal performance (U value).
4. Compliance with these characteristics is demonstrated using system 3 (see below for more information)
5. A Notified Body (NB) is responsible for the Initial Type Testing (ITT) and you are responsible for factory production control.
6. ITT test reports will normally be cascaded down from your PVC-U system supplier. If not, then you will need test reports from a Notified Test Laboratory.
7. Set up Factory Production Control (FPC) (see separate guidance document)
8. Produce a Declaration of Performance (see below)
9. Apply CE Marking to product, or packaging.
1. Define your product(s)

Your products will be windows and/or doorsets covered by:

- BS EN 14351-1, Windows and doors – Product standard, performance characteristics – Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics (Published hEN)

Reference to BS EN 14351-1 will be made throughout this document to help you understand the CE marking process as applied to windows and external pedestrian doorsets without resistance to fire and/or smoke leakage.

Within the definition of ‘window’ (excluding roof windows) you may want to break down the product into styles, e.g. casement, tilt/turn, fixed, multilight, etc., and similarly for doorsets. This is because the product testing could well generate different performance levels in relation to the essential characteristics which you may choose to declare separately. If you manufacture your products in compliance with your PVC-U system supplier’s instructions and use the same components, they may, subject to a signed agreement, provide the appropriate Notified Body test reports.

Annex F, Table F.1 in BS EN 14351-1 gives guidelines on window styles and the selection of representative test samples. (More detail in sections 6 and 8 below).

2. Review Annex ZA within BS EN 14351-1

Annex ZA within any harmonised standard is essentially a checklist for CE Marking; it lists the requirements and relevant test methods that collectively address the provisions of the CPR.

Annex ZA enables you to identify:

- the product performance characteristics which need to be determined and declared by you
- which tasks leading to the Declaration of Performance are your responsibility and which are the responsibility of an independent third party (‘Notified Body’)
- the information that needs to accompany the CE Marking symbol

Annex ZA of BS EN 14351-1 provides information on:

- the performance characteristics that are relevant to windows and external pedestrian doorsets used for communication in domestic and commercial locations (Table ZA.1),
- the systems for demonstrating the declared performance of windows and external pedestrian doorsets in accordance with their intended uses (Table ZA.2)
- how the tasks under the responsibility of the Notified Body and the manufacturer are assigned across the characteristics in accordance with the requirements of the performance-demonstrating systems (Tables ZA.3a-c)
- the contents of the Declaration of Performance (ZA 2.2)
- CE Marking and labelling (ZA.3)
3. Identify the essential characteristics of your product(s)

The ‘essential characteristics’ of the construction product are those characteristics which relate to the basic requirements for construction works in the CPR. All of the essential characteristics must be considered, although you will only have to gather performance evidence for those characteristics that are applicable to your product(s).

Table ZA.1 in BS EN 14351-1 identifies the relevant essential characteristics for your product(s).

The rule is that you must determine the performance of any characteristic in the product standard that:

- has an identified threshold value
- is a requirement under UK building regulations

Based on these criteria, for windows and doorsets not on escape routes there are only three that must be determined:

- Dangerous substances (REACH requirement)
- Load bearing capacity of safety devices (Threshold requirement)
- Thermal transmittance (UK building regulations requirement)

For locked doorsets on escape routes this list includes one other characteristic:

- Ability to release (UK building regulations requirement)

Additional aspects can be included in the Declaration of Performance (see table below).

4. Identify the system(s) for demonstrating performance of your product(s)

Having determined which essential characteristics need to be determined, you need to identify which system(s) for demonstrating the performance of those characteristics is applicable for the intended use of your product(s).

The systems differ according to the level of your involvement and that of independent third parties (‘Notified Bodies’) in demonstrating appropriate end-use performance and consistency of manufacture.

The CPR defines five systems within the Assessment and Verification of Constancy of Performance (AVCP); the lower the number, the higher the involvement of the Notified Body:

- 1+, 1, 2+, 3, 4.

Table ZA.2 in BS EN 14351-1 lists the AVCP systems relevant to external pedestrian doorsets and windows.

- Systems 1 applies to external pedestrian locked doorsets on escape routes, i.e. those with emergency egress or panic hardware fitted.
- System 3 applies to external pedestrian doorsets and windows not on escape routes.
5. Determine your and third party responsibilities within these systems

The CPR breaks down demonstration of performance into five main elements:

- Factory Production Control (FPC), based on documented, permanent and internal control of production in the factory, in accordance with BS EN 14351-1
- Initial inspection of the manufacturing plant and FPC
- Continuous surveillance, assessment and evaluation of FPC
- Determination of product type on the basis of Initial Type Testing (ITT), type calculation, tabulated values or descriptive documentation of the product
- Audit testing of samples taken before placing the product on the market

The responsibilities of the Manufacturer and Notified Bodies (NB) in demonstrating the performance of products under systems 1, 3 and 4 are summarised below. For windows and external pedestrian doorsets not on escape routes covered by BS EN 14351-1, system 3 has been designated.

<table>
<thead>
<tr>
<th>TASK</th>
<th>System 1</th>
<th>System 3</th>
<th>System 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPC</td>
<td>Manufacturer</td>
<td>Manufacturer</td>
<td>Manufacturer</td>
</tr>
<tr>
<td>Sample testing</td>
<td>Manufacturer</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Initial FPC inspection</td>
<td>Notified Body</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>FPC surveillance</td>
<td>Notified Body</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ITT</td>
<td>Notified Body</td>
<td>Notified Body</td>
<td>Manufacturer</td>
</tr>
<tr>
<td>Certification</td>
<td>Notified Body</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

For windows (excluding roof windows) and doorsets not on escape routes (System 3):

- appropriate Notified test laboratories are responsible for conducting Initial Type Testing to determine product type and the three essential characteristics, and
- the manufacturer has responsibility for consistency of performance of these characteristics through FPC in accordance with the standard

For locked doorsets on escape routes (taken to mean doorsets with emergency or panic hardware fitted) (System 1):

- a Notified product certification Body is responsible for Initial Type Testing and product certification, as well as initial inspection of the factory and FPC, and continuous surveillance, assessment and approval of FPC
- the manufacturer has responsibility for consistency of performance of these characteristics through FPC, as well as the testing of samples to a test plan to ensure that all of the characteristics related to 'ability to release' are maintained

Once all the appropriate performance assessment tasks have been carried out for the product, the manufacturer is required to complete a Declaration of Performance which is kept with the product technical file. (More detail in section 8 below.)
6. Undertake product testing and classify your product types

Product testing requirements

The harmonised standards for construction products refer to the test methods that must be used to determine the performance of the essential characteristics.

In BS EN 14351-1, the relevant test and calculation standards are listed in Section 2.2, and Tables E.1 and E.2 in Annex E provide greater detail for windows and doorsets respectively.

The four essential characteristics and relevant test standards are listed below:

- **Dangerous substances**
  This is a requirement under REACH regulations.
  
  COSHH sheets for the product and elements should be retained which demonstrate that in normal use dangerous substances are not emitted by the door or window to the internal environment.
  
  The British Plastics Federation have issued the following statement
  
  “*We declare that the PVC-U profiles used in the fabrication of windows and doorsets are safe in use and that there are no potential emissions of dangerous substances to the internal atmosphere of a building. PVC-U profiles are inert and all ingredients are locked into the polymer matrix.*”
  
  Similar statements will be required from your glass, hardware and other component suppliers. Your system supplier may already have procured these statements.

- **Load bearing capacity of safety devices**
  Where a safety device (e.g. retaining and reversing catches, restrictors, fixing devices for cleaning procedures) is present it should have been tested on the window as described in BS EN 14351-1.
  
  You will need to have evidence of performance in the form of a written test report from a Notified Test Laboratory to demonstrate compliance with the standard. This will normally be provided by your system supplier.

- **Thermal transmittance**
  
  Thermal transmittance is a requirement within the UK building regulations and may differ between the different countries within the UK. This normally consists of calculations based on EN ISO 10077-1 and EN ISO 10077-2. Sometimes, ‘Hot Box’ testing is required. This testing is carried out to EN ISO 12567-1 or EN ISO 12567-2.
  
  You will need to have evidence of performance in the form of a written technical report from a Notified Body to demonstrate compliance with the standards. This will normally be provided by your system supplier.

- **Ability to release**
  
  Any emergency exit device, panic hardware or hinge fitted must have been tested by a Notified Test Laboratory to relevant standards EN 179, EN 1125, EN 1935, prEN 13633 or prEN 13637. This evidence may be obtained via the hardware manufacturer.
You will need to have evidence of performance in the form of a written test report from a Notified Body to demonstrate compliance with the relevant standards.

**Classification of product type**

Within the CPR, ‘product type’ means the set of representative performance values or ranges of values relating to the essential characteristics of a product that has been manufactured from constituent materials / components in a specific production process.

In other words, it is the collection of characteristics and their performance values applicable to a specifically-produced product that defines the product type.

By definition therefore, a door set for normal communication purposes and a locked door set for use on an escape route (differing characteristics) would automatically qualify as two product types.

For windows, the essential characteristics as listed above may be sufficient on their own to define the product type, allowing the entire range of window styles to be rationalised under a single Declaration of Performance.

**7. Set up Factory Production Control**

**General**

Guidance on FPC for smaller companies is being prepared by the fenestration industry trade federations and will be published separately.

Accreditation to ISO 9001 is deemed to comply with FPC requirements.

It is the manufacturer’s responsibility to establish, document and maintain an FPC system to ensure that the products placed on the market conform to the stated performance characteristics.

The FPC system needs to consist of procedures, regular inspections and tests and/or assessments and the use of recorded results to control raw and other incoming materials or components, equipment, the production process and the product.

**Personnel**

The responsibility, authority and relationship between personnel that manage, perform or verify work affecting product performance are to be defined.

**Equipment**

Measuring, testing and manufacturing equipment is to be appropriately maintained and calibrated where necessary.

**Raw materials and components**

The specifications and inspection regime for incoming raw materials and components shall be documented.

**Production process**

Production is to be planned and carried out under controlled conditions. The various stages of production, the checking procedure and responsible persons need to be identified. All checks, results and corrective actions must be recorded.
Product testing and evaluation

Procedures will be in place to ensure that the declared values of all of the characteristics are maintained, through testing and/or inspection during production and/or of finished products following a test plan and in accordance with the requirements of relevant test standards.

Traceability and marking

Individual products or product batches are to be identifiable and traceable with regard to their production origin, and processes related to affixing traceability codes and/or markings inspected regularly.

Non-conforming products

Documented procedures are to be available which specify how non-conforming products are dealt with.

Corrective action

Documented procedures are to be available that instigate action to eliminate the causes of non-conformities in order to prevent recurrence.

Information relating to FPC is contained in 7.3 of BS EN 14351-1.

8. Produce a Declaration of Performance

By making a Declaration of Performance the manufacturer is assuming legal responsibility for the conformity of the product with its declared performance.

Those essential characteristics that are applicable to your products must be included in the Declaration of Performance along with any other characteristics you may wish to declare from Table ZA.1 e.g. watertightness, wind resistance, etc.

In those circumstances where a relevant essential characteristic has not been determined, the option “no performance determined” (npd) is to be used in the Declaration and information accompanying the CE marking.

Your Declaration of Performance needs to contain the following:

- Description of the product and intended use
- Name and address of the manufacturer and the manufacturing site
- Name of the person empowered to sign the Declaration on behalf of the manufacturer
- System(s) of demonstrating product performance
- Applicable harmonised standard
- Name and identification number of the Notified Body(ies), tasks carried out by them and reference to documentation issued
- A list of the performance characteristics and classes achieved for the product from relevant evidence

This is then signed by the manufacturer’s designated representative.

Further information on the contents of the Declaration of Performance and Certificate of Constancy of Performance is provided in ZA.2.2 of BS EN 14351-1.
A template Declaration of Performance for a casement sash window is attached to this document.

It is not permitted to make a separate claim of performance, for instance in marketing literature, for a characteristic which is not included in your Declaration of Performance.

9. Apply CE Marking

The manufacturer or his authorised representative is responsible for affixing the CE marking.

The following information needs to accompany the CE marking symbol:

- Identification number of the certification body (only for products under System 1)
- Name and registered addressor identifying mark of the manufacturer
- The last two digits of the year in which the marking symbol was first affixed
- Reference number of your Declaration of Performance
- Number of the Product Standard
- Description of the product and unique identification code
- Intended use
- Information on essential characteristics

A template CE marking for the casement sash window example above is attached to this document.

The CE marking and accompanying information is to be affixed visibly, legibly and indelibly on one or more of the following locations:

- Any suitable part of the product
- On an attached label
- On packaging

Where these options are not practical on account of the nature of the product then it may be on accompanying commercial documentation e.g. delivery note.

If you choose to affix only the CE marking symbol to the product, the additional information is to be contained in document(s) accompanying the product.

The support you can expect from your systems supplier

Type Testing

The majority of type testing may be carried out by your PVC-U systems supplier and the Notified Body test reports retained by them for reference as required under the CPR.

Factory Production Control

Your systems supplier may provide you with a template FPC suited to your needs if you are not certified to ISO 9001 or do not have an equivalent quality management system.

Fenestration industry trade federations are drafting guidelines for FPC for micro enterprises (less than 10 staff) which will be published in due course.
# Example Declaration of Performance

**Declaration of Performance**  
*W01-CPR-2012-09-05*

1. **Product type:** Double-glazed PVC-U casement window  
2. **Product type number:** [ABC-001-WIN]  
3. **Intended use:** Not on escape route (other)  
4. **Manufacturer:** [Name, address]  
5. **Authorised representative:** [Name] – address as in point 4  
6. **System of assessment of performance:** 3
   1. [BSI 0086] performed [tasks] and issued [certificate, report]  
   2. Report [12345] issued by [notified body YYY]  
   3. By calculation using EN ISO 10077-1
8. **European Technical Assessment:** Not applicable  
9. **Declared performance:** (normally provided by system supplier)  

<table>
<thead>
<tr>
<th>Essential Characteristic</th>
<th>Performance</th>
<th>Harmonised Technical Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watertightness</td>
<td>Class 7A (300 Pa)</td>
<td></td>
</tr>
<tr>
<td>Dangerous substances¹</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Resistance to wind load</td>
<td>Class E (2400 Pa)</td>
<td></td>
</tr>
<tr>
<td>Load-bearing capacity of safety device²</td>
<td>350 N</td>
<td>BS EN 14351-1:2006 + A1:2010</td>
</tr>
<tr>
<td>Acoustic performance</td>
<td>npd</td>
<td></td>
</tr>
<tr>
<td>Thermal transmittance³</td>
<td>Default value from EN 10077-1 or as given by System Supplier</td>
<td></td>
</tr>
<tr>
<td>Radiation properties</td>
<td>npd</td>
<td></td>
</tr>
<tr>
<td>Air permeability</td>
<td>Class 2 (300 Pa)</td>
<td></td>
</tr>
</tbody>
</table>

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

............................................................................................................................

(name & title)

............................................................................................................................

(place and date of issue) (signature)
Example CE Marking

<table>
<thead>
<tr>
<th>[Name &amp; address of manufacturer]</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[Last 2 digits of year of CE marking]</td>
<td></td>
</tr>
<tr>
<td>BS EN 14351-1:2006 + A1:2010</td>
<td></td>
</tr>
<tr>
<td>Notified body 0836</td>
<td></td>
</tr>
</tbody>
</table>

Double-glazed PVC-U casement window type [ABC-001-WIN] intended for use not on escape route

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance to wind load</td>
<td>Class E (2400 Pa)</td>
</tr>
<tr>
<td>Watertightness</td>
<td>Class 7A (300 Pa)</td>
</tr>
<tr>
<td>Dangerous substances</td>
<td>None</td>
</tr>
<tr>
<td>Load-bearing capacity of safety device</td>
<td>350 N</td>
</tr>
<tr>
<td>Acoustic performance</td>
<td>npd</td>
</tr>
<tr>
<td>Thermal transmittance</td>
<td>1.9 W/(m².K)</td>
</tr>
<tr>
<td>Radiation properties</td>
<td>npd</td>
</tr>
<tr>
<td>Air permeability</td>
<td>Class 2 (300 Pa)</td>
</tr>
</tbody>
</table>
Frequently asked Questions

Q1) Can I use the greater than (>) and less than (<) symbols in conjunction with my declaration of performance on my Declaration of Performance (DoP) and CE marking, for example U Value ≤ 1.6 W.m²/°K

Yes, however if you offer and market a product with a specific performance that is better and you make this better claim in your literature, then you must raise a new DoP.

Note: This has been raised with the commission and we obtained a definitive answer.

Q2) Does the CE mark or label have to be permanent?

No, it shall be visible, legible and indelible.

Q3) Does the label have to have the year of manufacture?

No, the year that is stated on the CE marking label is the year that the mark was first applied to the product, this is normally the year that the DoP was drawn up or made.

Q4) Can the information such as the DoP be provided electronically?

The DoP may be made available on a web site but a simple link to the relevant DoP page must be clear.

Q5) How do we resolve the issue relating to Dangerous Substances?

All components must meet the requirements for Dangerous Substances. If your component supplier is unable to provide you with the relevant information then you may wish to consider changing supplier.

Q6) Will changing hardware mean that a new Initial Type Test (ITT) is required?

Not necessarily, if your agreement with your system company allows interchangeability and Annex A of EN 14351-1 indicates that changing a particular component will not affect the relevant characteristic, then you will not need to conduct further testing.

Q7) Can the DoP contain more characteristics than the mandated ones?

No, the characteristics that must be listed on the DoP are contained in Table 1 of the Annex ZA. All these must be listed but no more can be added.

Q8) If an installer buys complete windows and then markets them under their own name, does he have to produce a new declaration?

If the original CE marking remains unchanged and the DoP remains relevant then no, however if the installer removes the original CE marking and presents the product as their own then they will need to draw up a new DoP and take responsibility for the product.

Q9) If an installer adds a safety device before or during installation does he need to get new ITT, DoP and CE Marking?

Yes, any change to or addition of any hardware that affects the performance of an essential characteristic will require a new DoP supported by ITT.
Q10) How do they go about CE marking their escape doors? (i.e. who do they contact for test results or testing?)

They will need to employ a notified Body as this product falls under AVCP system 1. They will perform an initial visit and ongoing FPC assessments. If you have ISO 9001 then talk to your certification body.

Q11) Can a frame only manufacturer supply a completed DoP and CE Mark the product?

If the frame supplier wishes to take responsibility for the DoP and CE marking for the complete window he may subcontract the supply of the sealed unit, this may be via a IGU supplier or via an installer. In this scenario then the frame supplier remains legally responsible for the CE marking as they have signed the DoP. The frame supplier’s FPC would need to include the relevant control of the subcontracted organisation and the subcontracted organisation also has the appropriate FPC system.

Q12) What constitutes a safety device?

It is the hardware manufacturer’s responsibility to declare if the product is a safety device. If it is declared as a safety device then it must be tested.

Q13) Does CE mark apply to static homes or park homes?

It is not clear if the products intended for use in such applications are within the scope of the CPR. We will seek further advice.

Q14) Is there any guidance specifically aimed at CE Marking for installers?

A separate document aimed at installers is being prepared.

Q15) Do we need to purchase a copy of the BS EN 14351-1 standard from BSI given that we might not understand it due to the fact that it is not in normal English?

It is essential to have a legal copy of the standard. This will enable you to understand the requirements for FPC and full details of the Annex ZA.

Q16) Can I use my WER U value data for CE marking?

If they have been generated by or approved by a Notified Body then you may use the WER U value data. Please check with the relevant Notified Body.
Suppliers

Windows System Companies

Deceuninck Ltd
Tel +44 (0)1249 816969
deceuninck@deceuninck.com
www.deceuninck.co.uk

Halo
Tel 0121 749 3000
info@whs-halo.co.uk
www.whs-halo.co.uk

REHAU Ltd
Tel +44 (0)1989 76 -2600
www.rehau.co.uk

Duraflex Limited
Tel +44 (0)8705 351351
info@duraflex.co.uk
www.duraflex.co.uk

LB Plastics Ltd
Tel +44 (0)1773 852311
www.shearframe.co.uk

Spectus Systems Ltd
Tel +44 (0)1625 420400
contacting@spectus.co.uk
www.spectussystems.co.uk

Eurocell Profiles Ltd.
Tel +44 (0)1773 842 100
info@eurocell.co.uk
www.eurocell.co.uk

Profile 22 Systems
Tel +44 (0)1952 290910
mail@profile22.co.uk
www.profile22.co.uk

Veka Plc
Tel +44(0)1282 716611
salesenquiry@veka.com
www.veka.co.uk

Fabricators and Installers

Lister Trade Frames Limited
Tel +44 (0)1782 391 909
Sales@listertf.co.uk
www.listertf.co.uk

Snowdonia (Windows & Doors) Ltd
Tel +44 (0)1352 758 812
www.snowdoniawindows.co.uk

Zenith Staybrite Ltd.
Tel 0800 238 9395
www.zenithhome.co.uk

Raw Materials and Additive Suppliers

Baerlocher UK Ltd
Tel +44 (0)161 764 3155
info@baerlocher.co.uk
www.baerlocher.co.uk

Chemson Ltd
Tel +44 (0)191 259 7000
sales.uk@chemson.com
www.chemson.co.uk

INEOS Chlorvinyls UK Ltd
Tel +44 (0)1928 561111
euro.sales.enquiries@ineoschlor.com
www.ineoschlorvinyls.com

Mitsui & Co UK plc
Tel +44 (0) 20 7822 0321
dhicks@ldn.xm.mitsui.co.jp
www.mitsui.co.jp/ltkbz/english/

Rohm and Haas (UK) Ltd
Tel +44 (0) 2476 654400
SAAdams@rohmhaas.com
www.rohmhaas.com

Specialist Services

Foilit
Independent profile wrapping specialist
Tel +44 (01604) 706222
info@foilit.uk
www.foilit.co.uk

Groupco Ltd
Supplier of door and window fittings to the windows market
Tel +44 (0)1733 234750
sales@groupcoltd.co.uk
www.groupcoltd.co.uk

Renolit
Supplier of foil to the windows industry
Tel +44 (0)1670 718222
info@renolit.co.uk
www.renolit.com