



INtouch
WITH TIMBER
2010



Wood Windows
Achieving High Performance

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Contents


- Aspects of performance
 - Appearance
 - Sustainability
 - Thermal insulation
 - Weather resistance
 - Ease of operation
 - Security & safety
 - Low maintenance
 - Durability
- Design & specification
- Contractual responsibility



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Appearance
Gaudi



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Appearance
Art Nouveau





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Appearance
Royal Opera House





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Appearance
Greenpeace HQ



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Appearance
Nursing Home
Ireland



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Appearance
Dublin Flat
Ireland



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Appearance
Clarion Quay, Ireland



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Appearance
Modern Sliding Sash



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Appearance
Velux Aluminium faced Window/Wall



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Sustainability
Accoya Windows



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Sustainability
Accoya Windows




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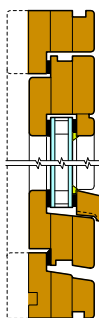


Sustainability
Accoya Windows




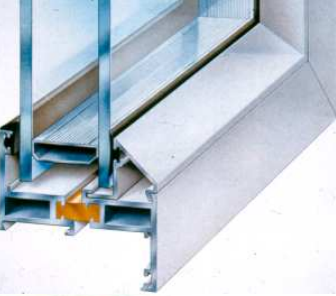
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Sustainability
laminated profiles



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Insulation
Aluminium Window Section



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Insulation
PVCU Window Section




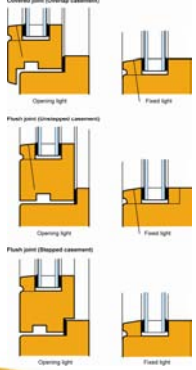
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Insulation
Passivhaus Window



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Weather
Covered / flush joint



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Weather Pressure relief

FLUSH JOINTS COVERED JOINTS

Diagrams illustrating flush joints and covered joints for weather pressure relief. The flush joints section shows three types: joint, head, and sill. The covered joints section shows three types: joint, head, and sill. Below the diagrams, it specifies 'Grooves in casement and frame' for flush joints and 'Grooves in casement only' for covered joints.

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Operation Opening types

Diagrams illustrating various window opening types: Side hung full, Side hung reflex, Fixed, Reverse side, Top hung full, Top hung reflex, Tilt, and Turn.

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Security Espagnolette locking

Diagram illustrating the espagnolette locking mechanism.

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Security Espagnolette locking

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Maintenance Aluminium Beads

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Maintenance Powder coated Aluminium Facing

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SIA Dry glazing strips

Load bearing tapes with sealant capping

Extruded gaskets

Gasket with sealant capping

Durability
Ventilation Drain Glaze

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Pileth bricks

Clay tiles

Squared brick on edge

Special sill brick

Pre-cast concrete sill

Special profile (Steel, PVC-U, compressed mineral fibre)

Durability
Window sills

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Durability
Pre-cast Concrete Sill

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Design – Ten Steps

1. Design windows to be recessed preferably into wall
2. Choose the type of window for ease of operation, cleaning, security and safety
3. Prepare sufficient detail for appearance but allow for manufacturers to take on full design responsibility
4. Prepare full specifications referring where possible to British or European standards
5. Ensure that the specifications include sufficient criteria where manufacturers are responsible for design

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Design – Ten Steps

6. Specify a fully ventilated/drained glazing method
7. Specify that windows are to be fully factory finished
8. Choose window manufacturers whose products are supported by testing and third party certification
9. Specify that windows are to be installed into performed openings and not 'built in'
10. Ensure factory finished windows are sufficiently protected during building construction

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