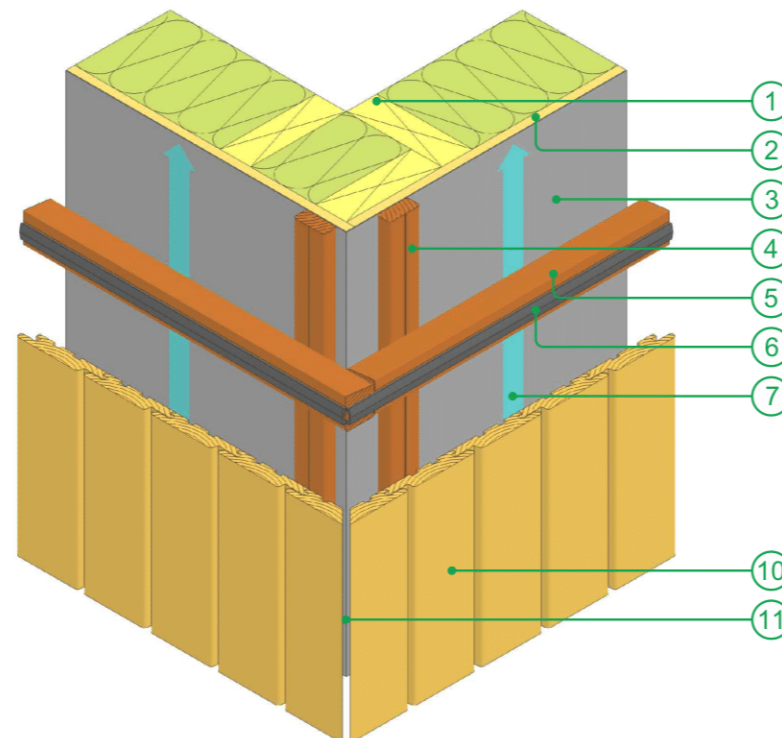
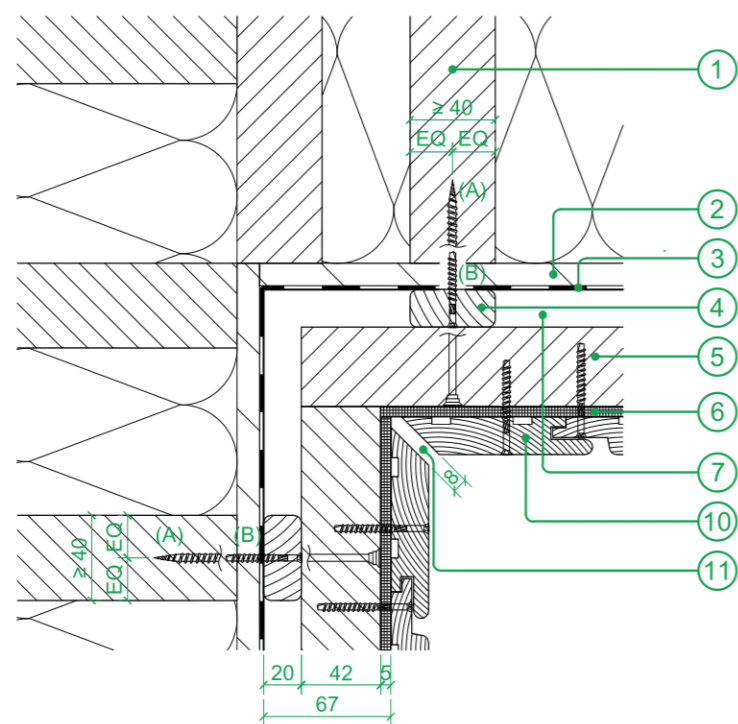


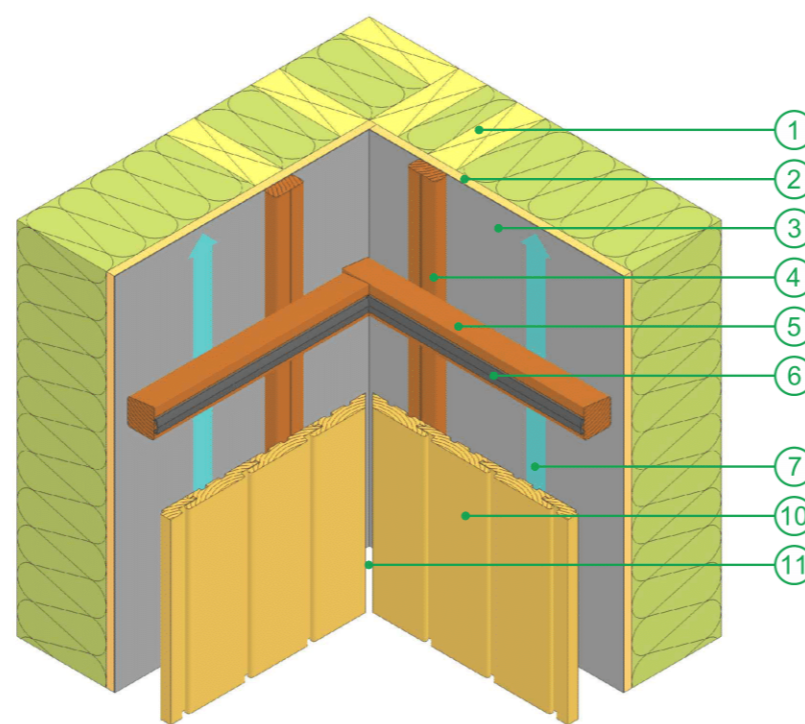
External open mitre corner
Plan view (scale 1:4)



External open mitre corner
Isometric diagram



Internal open mitre corner
Plan view (scale 1:4)



Internal open mitre corner
Isometric diagram

Technical notes:

1. Timber frame studs at ≤ 600 mm centres (min. 40 mm thick; C16 strength class or higher)
2. 12 mm sheathing
3. Breather membrane
4. RWB002 45 x 20 mm vertical counter battens installed at ≤ 600 mm centres and pinned at ≤ 1200 mm centres to OSB using F-BohrFix[®] 3.2 x 40 mm stainless-steel screws (B)
5. RWB003 41/46 x 42 mm horizontal sloped battens installed and fixed at ≤ 600 mm centres to timber frame studs through vertical counter battens and OSB using GoFix[®] MS II 5.0 x 120 mm screws with SC 7[®] coating (A)
6. KompeFix[®] flexible ventilation strips
7. Unobstructed vertical air flow in cavity
10. Illustrative example of vertical timber cladding: RW119 120 x 20 mm profile secret-fixed with F-BohrFix[®] 3.2 x 50 mm stainless-steel screws
11. 8 mm wide open mitre joint between cladding boards; corner boards to be modified on site by joiner as required

Fixings for load-bearing connections:

- (A) GoFix[®] MS II 5.0 x 120 mm screw with SC 7[®] coating (achieves screw embedment in timber frame stud and batten compliant with EN 1995-1-1: Eurocode 5: Design of timber structures)

Fixings for non-load-bearing connections (pinning):

- (B) F-BohrFix[®] 3.2 x 40 mm stainless-steel screw



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RUSSWOOD BATTENING SYSTEM KEY FACTS

Independently assessed battening system
Russwood Battening System uses batten shapes and screw fixings that follow an engineer's calculations to make the system compliant with EN 1995-1-1: Eurocode 5: Design of timber structures, ensuring sufficient fixing embedment and structural integrity for fixing external timber cladding in the harshest UK conditions.

Thermopine[®] timber battens

- Durable throughout full cross-section – no touching up needed after cutting/re-machining (unlike preservative-treated softwood)
- Resinous substances removed with heat treatment – no resin exudation occurs
- Durability equal to that of Oak as per BS EN 350-2 – long-lasting and resistant to decay
- No chemicals used when heat-treating – no poisonous or hazardous waste at the end of life
- PEFC certified – sourced from well-managed European forests
- Excellent price and performance ratio – cost-effective and highly dimensionally stable

Batten profiles

- RWB001 42 x 42 mm vertical batten*
- RWB002 45 x 21 mm vertical counter batten*
- RWB003 41/46 x 42 mm horizontal sloped batten*

*Battens will have rounded corners.

Batten profiles contain guide grooves machined into one face for easily locating KompeFix[®] flexible ventilation strips and screw fixings.

TRADA compliant batten shapes

The RWB003 41/46 x 42 mm sloped batten follows the TRADA advice for shedding moisture away from the back of the cladding boards. The RWB002 45 x 20 mm counter batten ensures that vertical cladding arrangements have vertical airflow in the cavity to improve the drying of the cladding in order to extend its lifespan.

The versatile battening system

Russwood Battening System works with, horizontal, vertical and diagonal cladding designs, and open rainscreens and closed type arrangements.

GoFix[®] MS II screws with SC 7[®] coating

GoFix[®] MS II screws designed by Austrian timber engineers are meant for load-bearing connections; precision-milled and coated with patented protective SC 7[®] coating for enhanced resistance to corrosion.

F-BohrFix[®] stainless-steel screws

Stainless-steel screws for non-load-bearing connections where components of the system need to be pinned.

KompeFix[®] flexible ventilation strips

Enhances the performance of cladding and battening. KompeFix[®] works as a flexible spacer that offsets the cladding from the battens to improve ventilation, and eliminate the moisture-trapping wood-to-wood contact. KompeFix[®] also provides some room for timber movement, which occurs when cladding boards react to the changing relative humidity levels in the atmosphere and either shrink or swell in response.

Securo Firebreather[™] cavity barrier

A tested and certified fire resistance rated product, consisting of two components: a stainless-steel mesh and an intumescent strip. An optional component that provides fire-resistance.

Unlike other products on the market, the patented design of the Securo Firebreather[™] is highly effective under sudden or direct flame exposure, where situations like flashover or rapid flame growth are occurring. In these circumstances the mesh acts immediately to block the passage of flame and burning embers, while the heat activated intumescent strip expands and fully blocks the cavity.

Russwood Battening System

Vertical cladding with KompeFix[®] – External and internal open mitre corner details

Drawing series: RWBS-003-A
RWBS-003-B
RWBS-003-C

Date:
19/07/2021

Scale:
APD

Print size:
A3

RWBS-003-C

Ref: RWBS-003 Vertical KompeFix B-62-5