CI/SfB (47) Rm1 (M2)
February 2009 (replaces January 2008 issue)

Application type	Thermal, Fire, Acoustic
Construction type	Flat roofs

ROCKWOOL

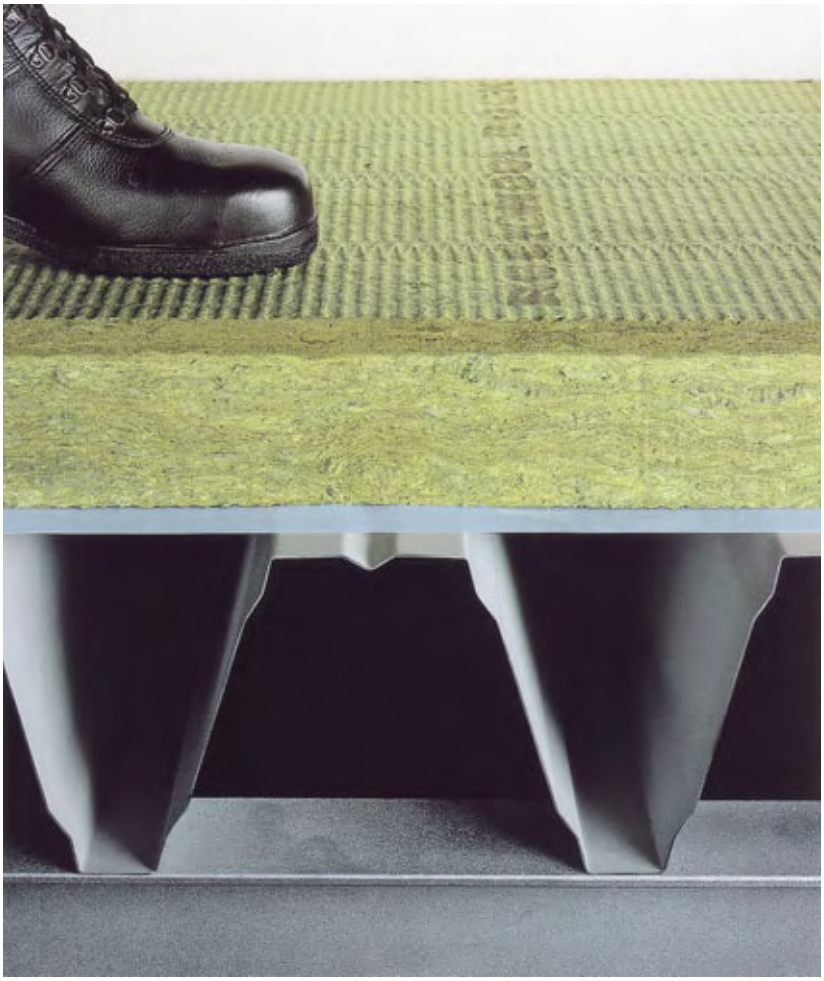
DuoRock roofing boards

Rigid insulation boards for warm flat roofs

• Plain roofing board • Tissue faced roofing board • SPA roofing board • Cut to Falls roofing board

DuoRock roofing boards offer non-combustible thermal and acoustic insulation solutions at economic cost to the contractor. The dual density roofing boards are manufactured with a high density, robust top surface.

The appropriate DuoRock products may be used for mechanically fastened or ballasted single ply membrane systems.



Advantages

- Non combustible
- Faster to install
- Fewer insulation fasteners
- Single thickness solutions
- Cantilever performance
- Dimensionally stable
- Fully tested systems
- Suitable for new build and refurbishment

Certificate No FM 02262

Certificate No EMS 70301

FM APPROVED

LPS 1181: Part 1
Certificate No: 022g/03

SPRA Associate Member

The following NBS Plus clauses include DuoRock: J41–110, 115, 425, 680, J42–110, 425, 680

Description, performance and properties

Dimensions

DuoRock roofing boards are manufactured in the following sizes:

Plain board: 1200 × 1000 mm.
Cut to Falls: 1200 × 1000 mm.

Standard uniform thicknesses range from 50 mm to 185 mm. 30 mm thickness Hardrock is available for use with perimeter upstands. The dimensions shall meet the requirements of EN 822 for length and width, EN 823 Class T4 for thickness, EN 824 for squareness.

Strength

DuoRock roofing boards are strong enough to bear normal foot traffic associated with installation and routine maintenance inspections of the roofing system.

Dimensional stability

Being made from rock, DuoRock roofing boards are dimensionally stable and therefore:

- do not require any mechanical fasteners to prevent differential thermal expansion
- do not exert any undesirable stress on the waterproofing membrane.

Standards and approvals

Rockwool DuoRock roofing boards comply with the requirements of BS EN 13162: 2001, 'Thermal Insulation products for buildings Factory made mineral wool (MW) products specification.'

European Union of Agrément (UEAtc)
DuoRock roofing boards have been assessed by the BBA to the UEAtc Technical guidelines MOAT No 50: 1992 'Thermal insulation systems intended for supporting waterproof coverings on flat and sloping roofs'.

DuoRock roofing boards have been tested for the effects of mechanical stress and have achieved Classification B, 'Roof only accessible for purpose of maintenance. May be used without any restrictions.'

The Boards have also been assessed for cantilever and free spanning capabilities.

Factory Mutual
DuoRock (Plain) roofing boards are Factory Mutual approved for Class 1 insulated steel deck constructions. Approval Report No. J.I. 3010637

Resistance to moisture

DuoRock roofing boards are water repellent and are unaffected by the freeze/thaw cycle.

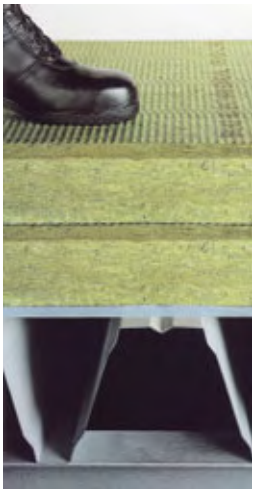
Fire

Rapid spread of fire not only destroys buildings, but can cost lives too. Smoke and fumes can hinder escape and rescue. The specification of insulation materials should consider each characteristic as well as any tendency for toxic emissions to contaminate water courses and the environment.

DuoRock roofing boards offer a high level of Fire safety and are classified as non-combustible to Approved Document B of the Building Regulations and LPCB (Red Book ref. 022e).

LPCB Approvals
Roofing constructions incorporating DuoRock roofing boards have achieved the highest possible classification to LPS 1181:Part 1 (i.e. EXT-A). This was accomplished by successfully undertaking and passing the Part 1 test for Reaction to Fire and the more onerous LPS 1208 Resistance to Fire test. Rockwool roofing boards are the only insulation products to have achieved this classification with respect to built-up warm flat roofing constructions.

Approvals for DuoRock Plain roofing Board within specified metal deck flat roof constructions (LPCB ref No 022g/03) are detailed below.



LPS 1181: Part 1
Certificate No: 022g/03

Product	Description	Specification System Thickness (mm) (1)	Fire Resistance (min) Integrity	Fire Resistance (min) Insulation	Grade (2)	Core Material	LPCB Ref. No.
DuoRock roof board system		100 - 210	60	60	EXT-A60	Stone wool	022g/03
DuoRock roof board system		100 - 210	60	60	EXT-B	Stone wool	022g/03

1) Roof board system LPCB Ref No. 022g/03: Mechanically fastened Sarnafil single ply type S327-12EL (1.2mm thickness), external weather proof membrane (or alternative membrane less than 3.5 kg/m" e.g. PVC, Chlorinated PE, Butyl Rubber with welded seams);

Comprising of two layers of Rockwool roofing board with staggered joints (100mm minimum stagger for fire resistance up to 90 minutes and 300mm stagger for 2 hours fire resistance), vapour control layer and 0.7mm thickness 35mm deep profile steel metal deck.

2) For EXT-A fire resistance grading, the test construction was tested unloaded. However, deflection of the roof did not exceed the allowable limits set out in BS 476: Part 20: 1987 for loadbearing horizontal elements.

3) Decking side laps were stitched at 450mm centres. The built up roofing system was tested with Eurobond Stone wool core sandwich wall panels.

Insurance requirements for protected zones
Systems that have only achieved EXT-B Grade are not suitable for use in roof areas adjacent to 'protected zones' as defined by the 'LPC Design Guide'. Appendix B, LPS 1181: Part 1 outlines three specific levels of Grade EXT-A fire resistance requirements for compliance with insurance industry standards within 'protected zones'.

Please contact Rockwool Ltd for details of approved constructions,

Building Regulations Approved Document B
Where a flat roof is to be used for escape purposes, then the construction must achieve a minimum fire resistance of 30 minutes integrity and insulation, i.e. EXT-A30.

For further details contact Rockwool Customer Support (0871 222 1780) or visit www.redbooklive.com

Non-combustible Rockwool insulation can prolong the life of buildings and people.

Acoustic Performance

Effective sound insulation is an essential requirement where commercial or industrial operations generate noise levels, which could be harmful to the health or efficiency of the building occupants, or present an environmental nuisance. The control of noise pollution is an ever-increasing problem and one that is best addressed at the design stage. The solution tends to be specific to each building and is dependent on the type and source of the noise, both inside and outside the building. Duorock roofing boards are proven to be the ideal acoustic insulation material for use in warm flat roof construction.

1. Sound attenuation

Noise intrusion from heavy traffic or aircraft can be reduced by using Duorock roofing boards as part of the roof system, creating a quieter ambience within the building. The product may alternatively be used to assist containment of the noise source within the same building.

For high performance acoustic specifications, the use of a mass layer may be required. The combination of Duorock and Rockwool Acoustic Membrane (RAM) results in improved sound insulation levels across the frequency range.

The control of external noise pollution is an ever-increasing problem

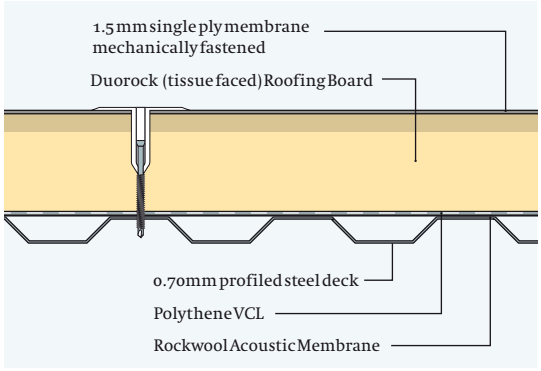


Figure 1: A typical high-performance flat roof detail with Duorock roofing board

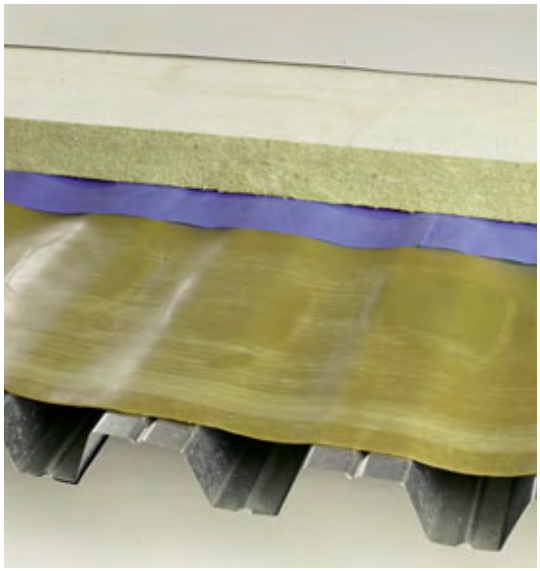
The construction denoted by Figure 1 has been acoustically tested using specific combinations of metal deck, Hardrock Dual Density and Rockwool Acoustic Membrane. An assessment has then been made by Sound Research Laboratories Limited to calculate Duorock's performance in the equivalent constructions. Weighted apparent sound reduction index (Rw) values for each combination are summarised below.

Deck type: 35mm deep profile, 0.7mm thick
Duorock thickness: 145mm

Layers of RAM 5	Rw dB	Ctr Value	Report No.
None	34	-4	C/02/5L/0526/1 Test 2
One	37	-5	C/03/7H/10161/L2
Two (or one layer of RAM 10)	41	-5	C/02/5L/056/1 Test 5

Deck type: 60mm deep profile, 0.7mm thick
Duorock thickness: 210mm (105+105mm)

Layers of RAM 5	Rw dB	Ctr Value	Report No.
None	35	-5	C/06/5L/3434/1 Test 2
One	41	-7	C/06/5L/3434/1 Test 6
Two (or one layer of RAM 10)	44	-6	C/06/5L/3434/1 Test 3
Four (or two layers of RAM 10)	47	-6	C/06/5L/3434/1 Test 4



Typical application of Duorock and Rockwool Acoustic Membrane .

Rockwool Acoustic Membrane

Rockwool Acoustic Membrane is a flexible, high-density polymer mass layer. The product, when combined with Duorock, offers an ideal acoustic solution for buildings requiring high levels of acoustic performance. These include cinemas, airports, concert halls, stadia, retail and leisure developments, call centres, schools, etc.

See the Rockwool Acoustic Membrane data sheet for further details and solutions.

Thermal performance and U-values

Thermal Conductivity

The Thermal Conductivity (λ) of DuoRock roofing Board is 0.038 W/mK.

U-values

The following examples indicate typical U-values attained using DuoRock roofing boards in combination with a mechanically fastened single ply membrane system.

Part L: 2006 Edition U-value requirements for insulation on flat roofs:
Extensions: 0.20 W/m²K
Renovation and repair work: 0.25 W/m²K
New build requirement could range between 0.20 and 0.18 W/m²K to achieve a 20-28% improvement in energy performance standards.
Republic of Ireland New Build and Extensions: 0.22 W/m²K

Typical Constructions for Use with Single Ply Membrane System

U-value* (W/m²K)	Fig 2	Fig 3	Thickness (mm)	Fig 4	Fig 5
0.25	135	145		135	145
0.22	165	165		165	165
0.20	170 (85+85)	185		170 (85+85)	185
0.19	185	190 (95+95)		185	190 (95+95)
0.18	190 (95+95)	200 (95+105)		190 (95+95)	210 (105+105)
0.16	220 (85+135)	220 (85+135)		220 (85+135)	230 (95+135)
0.13	270 (135+135)	270 (135+135)		270 (135+135)	280 (135+145)

* Calculations assume that insulation and membrane fasteners are of the telescopic type.

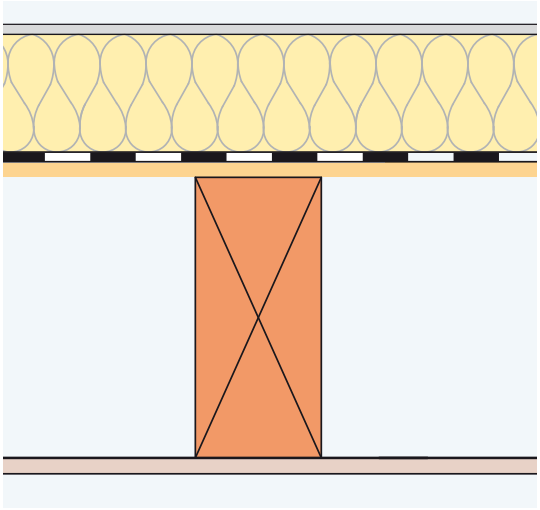


Figure 2: 19mm timber deck with 12.5mm plasterboard and skim fixed to timber joists

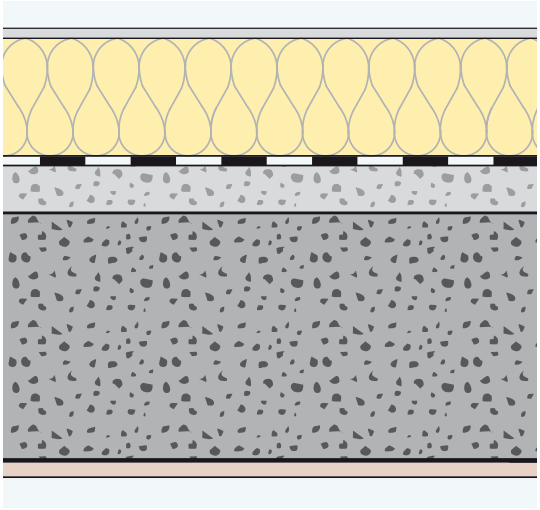


Figure 3: 150mm dense concrete deck and 50mm screed with 16mm plaster finish

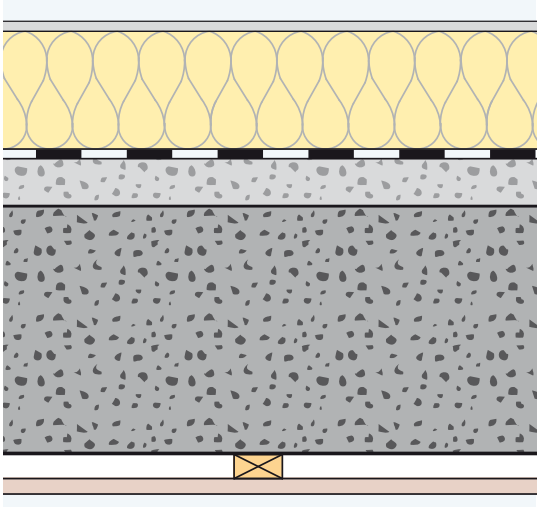


Figure 4: 150mm dense concrete deck and 50mm screed with suspended 12.5mm plasterboard ceiling

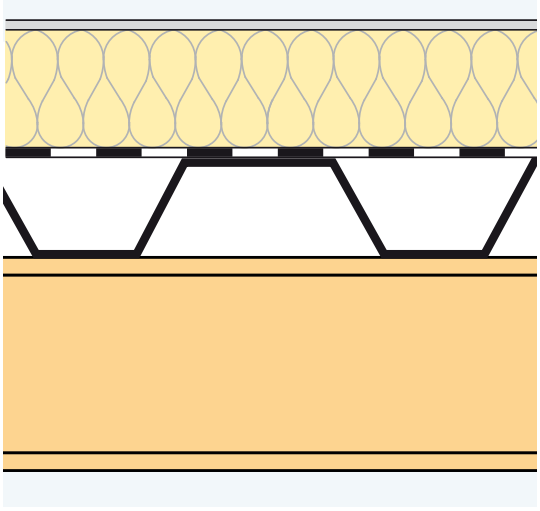


Figure 5: Troughed steel decking without underlining

DuoRock (Plain) roofing boards: Design considerations

Profiled metal deck installations

Free spanning capability

Minimum DuoRock roofing Board thickness equals the maximum trough width divided by 3. The maximum trough width suitable for free spanning using DuoRock is 300mm. Note: The maximum trough width for 50mm DuoRock is 75mm.

Crown and trough position

Rockwool DuoRock roofing Board must be laid with the long edge at right angles to the profiles of the metal deck. Butt joints should occur at the mid-crown position, except where cantilevering is applicable.

Cantilevering

DuoRock roofing Board of 60 mm or greater thickness may cantilever over a trough. For cantilevering, the minimum board thickness is equal to the the maximum trough width divided by 2. The maximum trough width suitable for use with DuoRock is 300mm. Note: 50mm boards may not be cantilevered.

Cantilevering offers easier and faster installation

Vapour control layer

The need for a vapour control layer with DuoRock roofing boards should be calculated in accordance with BS 5250: 2002 and with reference to BS 6229: 2003 (Code of Practice for Flat Roofs with Continuously Supported Coverings).

Flat roof design

The roof construction and design should comply with BS 6229:2003 (Code of practice for flat roofs with continuous supported coverings).

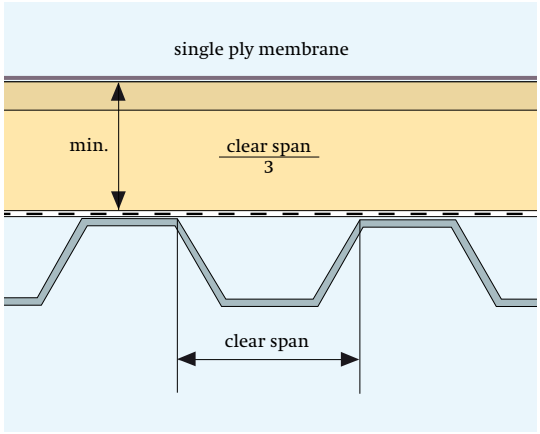
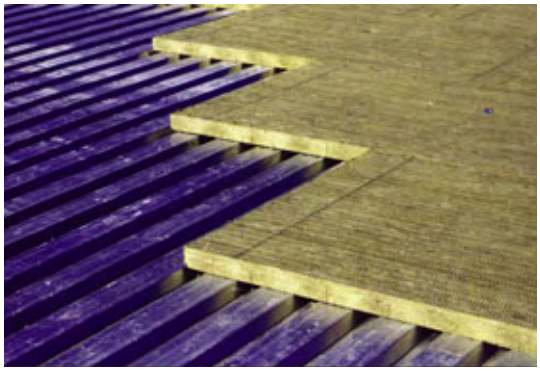


Figure 6: Note that the span to be measured is across the clear width of the trough, and not from the centre of the crowns



DuoRock (Plain) roofing boards: Design considerations

Mechanical fastening of insulation

1 Single ply mechanically fixed systems
Where the complete roofing system is mechanically fastened (for example single ply), Rockwool Limited recommends that a minimum of one mechanical fastener is used per board (or part thereof) to locate and secure the boards during installation (see below).

This recommendation is based on independent wind uplift tests to determine the wind-induced load on mechanically attached DuoRock boards. The tests comply with the boundary conditions specified in the UEAtc Supplementary Guide for the Assessment of Mechanically Fastened Roof Water Proofing.

The tests conclude that for both the field area and the edge region of flat roofs sufficient stability is achieved when using one fastener. For the corner region of flat roofs external suction and internal pressure forces of up to 3.5 kN/m² must be expected. However, it is universal practice in such vulnerable areas to increase the number of membrane fasteners per m², and also to reduce the distance between the rows of fasteners.

2 Fully bonded membrane system
Where the membrane is fully bonded to the insulation surface (e.g. with DuoRock Cut to Falls), the number of mechanical fasteners per board should be determined by windloading calculations conducted by the membrane manufacturer.

Factory Mutual

For Factory Mutual specifications, DuoRock should be fixed in accordance with the specification for Class 1 steel deck constructions and in accordance with F.M. A

pproved Guide and appropriate F.M. Data sheets. Additionally the insulation boards should be mechanically fixed in accordance with F.M. pre-securement requirements. For further details and guidance please contact Rockwool Customer Support (0871 222 1780).

Additional roof loads

Plant and machinery
Wherever possible, any roof-mounted plant, such as air handling and refrigeration units, should be positioned on independent upstands bearing directly onto the substrate.

Where this is not possible, and the equipment is to be placed directly onto the finished roof, further protection to spread the load on the DuoRock roofing Board may be required. In such cases advice should be sought from Rockwool Customer Support (0871 222 1780) and the membrane manufacturer.

Walkways and access areas
Additional protection to spread the load on DuoRock roofing Board is also recommended in walkway and access areas. Advice should be sought from the membrane manufacturer on the options available.

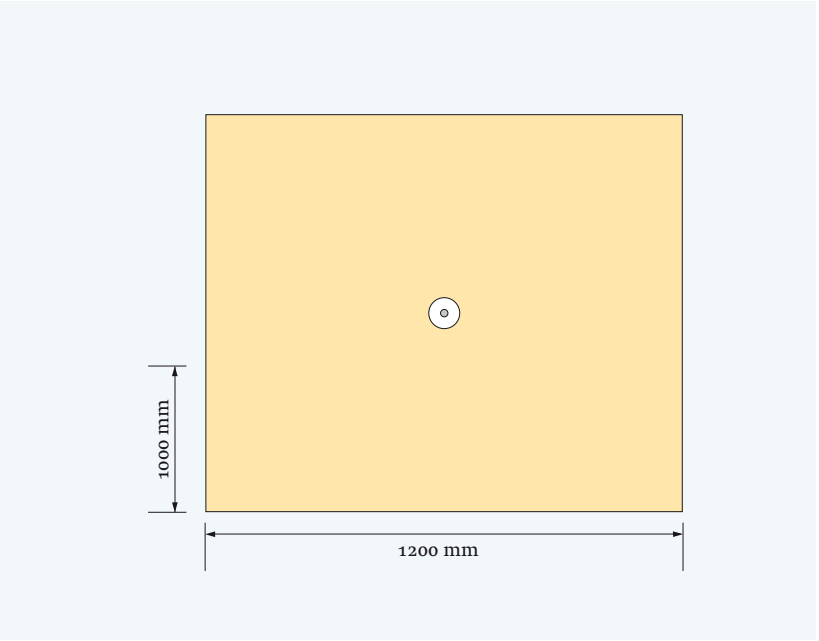


Figure 7: Location of mechanical fasteners for securing DuoRock roofing Board to metal, concrete and timber decks (see Mechanical fastening of insulation).

Adhesive bonding of DuoRock Cut to Falls

Hot applied adhesive
DuoRock Cut to Falls may be fully bonded in hot bitumen to a suitable vapour control layer.

Cold applied adhesive
The product may alternatively be bonded to suitable vapour control layers using approved PU and cold bituminous adhesives.

A list of compatible adhesives is available from Rockwool Customer Support (0871 222 1780).

Mechanical fastening of DuoRock

For the mechanical fastening of DuoRock roofing boards to metal, concrete or timber decks Rockwool Limited recommends the use of fasteners incorporating either a plastic tube washer or stress plate support thread (see illustrations below).

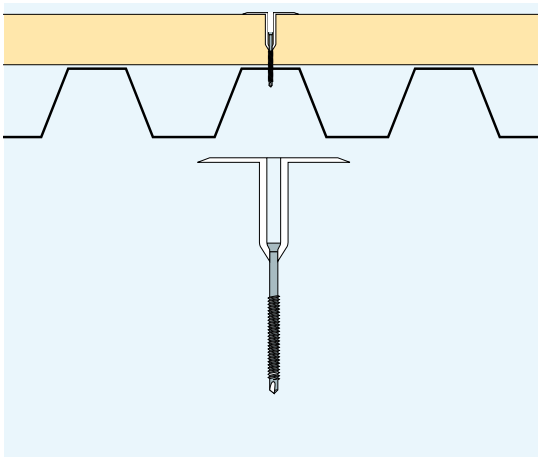


Figure 8: Plastic tube fastener

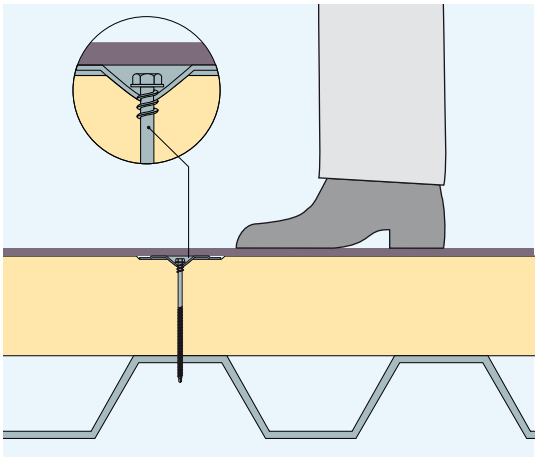


Figure 9: Fastener with stress plate support thread

Application of a plastic tube fastener

DuoRock (Plain) roofing boards: Typical specifications

Specification clause

1 DuoRock (Plain) roofing Board with mechanically fastened single layer membranes

The roof insulation is to be Rockwool DuoRock (Plain) roofing Board, as supplied by Rockwool Limited, Pencoed, Bridgend, CF35 6NY.

The board size is to be: 1200 × 1000 mm × ..... mm* thick.

The boards are to be laid strictly in accordance with the manufacturer's recommendations, staggered, butt-jointed and mechanically fastened through the vapour control layer to the deck.

The advice of the membrane manufacturer should be sought when specifying all aspects of the vapour control layer, fasteners, waterproof covering and construction of walkways.

2 DuoRock (Plain) roofing Board within a warm ballasted roof construction (light access)

The roof insulation is to be Rockwool DuoRock (Plain) roofing Board as supplied by Rockwool Limited, Pencoed, Bridgend, CF35 6NY.

The board size is to be: 1200 × 1000 mm × ..... mm* thick.

The boards are to be loose laid directly onto the vapour control layer, strictly in accordance with manufacturer's recommendations, staggered and tightly butt jointed.

The single ply membrane followed by a fleece filter/cushion layer should both be loose laid and installed over the insulation in accordance with the membrane manufacturer's recommendations.

Ballast to be spread evenly to a minimum depth of 50 mm† and should consist of 20–40 mm diameter, well rounded, ovoid shaped stones, washed free of sand and fine particles.

Additional ballast may be needed for areas which are subjected to greater wind uplift, such as perimeters. This should be confirmed by the membrane manufacturer.

The maximum combined weight of ballast and external loading applied to the insulation board should not exceed 360 kg/m².

Walkway routes, where required, should be established prior to laying the single ply membrane and be formed from 50 mm thick precast concrete paving slabs on purpose - made and compatible support pads (Minimum 150 mm diameter).

Walkways to be fully supported by a load-spreading layer applied between the insulation and the membrane.

The advice of the membrane manufacturer should be sought when specifying all aspects of the vapour control layer, fasteners, waterproof covering, fleece filter/cushion layer, and construction of walkways.

*Insert thickness as appropriate
†To be confirmed by calculation conducted by the membrane manufacturer.

BBC Scotland, Glasgow. DuoRock (Plain) roofing board. 2,000m²


IKEA Distribution centre, Doncaster. DuoRock (Plain) roofing board. 80,000m²


Intertissue, Baglan. DuoRock (Plain) roofing board. 85,000 m²

DuoRock Cut to Falls

DuoRock Cut to Falls is engineered to provide tapered solutions for roof constructions and offers the optimum combination of thermal, acoustic and firesafe insulation at an economic cost to the contractor.

DuoRock Cut to Falls is suitable for use under both high performance built up roofing and mechanically fastened single ply membrane systems.

A complete 'drawing board to site' service is provided.

The Cut to Falls service

- Site surveys
- Preparation of bespoke and considered design solutions
- Quotation for the supply of insulation systems
- Precision manufacture and supply to order
- Site advisory service available prior to and during installation

U-values

Consideration should be given as to whether an average or a minimum U-value is required for the particular roof.

However, as a result of the tapered thickness of the insulation, determining the overall U-value for a particular roof requires a series of calculations. A full thermal calculation analysis is available on request.

A Cut to Falls system will normally enhance the thermal performance of the roof in excess of Building Regulations requirements.

Achieved design fall

Where practical, it is recommended that the minimum achieved design fall should be 1:60, with an enhanced gradient of 1:40 at critical drainage points, such as gutters or outlets.

Fixing
Boards are delivered to site individually marked with a positional code corresponding to the detailed layout drawing provided.

The board layout should strictly follow that shown on the drawing, and to avoid error it is advisable to place each board in position temporarily prior to attachment.

The boards are either fully bonded to the vapour control layer with hot bitumen or mechanically fastened through the vapour control layer to the deck.

Good roofing design

Flat roofs may include a variety of obstructions such as rooflights, concrete plinths and air-handling units, where ponding water may collect unless correctly detailed.

Standing water may also occur at roof edges, held back by the extra thickness of roofing membrane, or where outlets are positioned at some distance from each other.

Where such situations arise, Rockwool offers various solutions, by means of additional design features, which also benefit the long term performance of the overall roofing system.

All boards are manufactured to order, and to reduce wastage and installation time, are pre-cut and bonded where applicable.

Additional design features

Pre-cut mitres
The use of factory made pre-cut mitres reduces site cutting requirements and ensures accurate installation. See figures 11 and 12.

Deflector overlay boards
Deflector overlay boards reduce the risk of water ponding behind roof lights, plant rooms and other roofline obstructions. They are supplied in two sizes and can be trimmed on site where necessary. See figure 10.

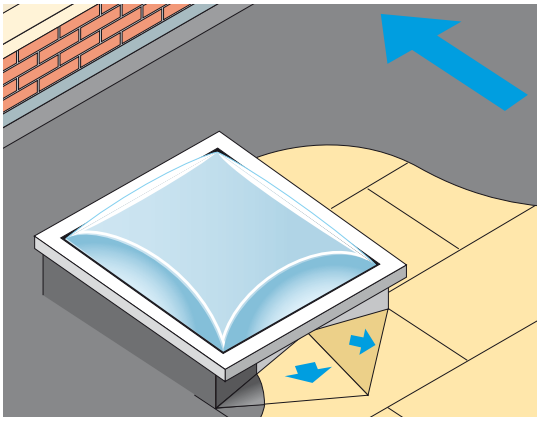


Figure 10: Use of Deflector Overlay Board where the roof fall is obstructed by rooflight

Cricket Overlay Systems
Cricket Overlay Systems are used to improve drainage between rainwater outlets by introducing cross-falls where none currently exist, as for example on a flat roof with falls in one direction only.

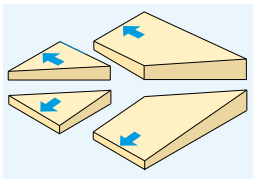


Figure 11: Cut to Falls pre-cut mitred boards at hip

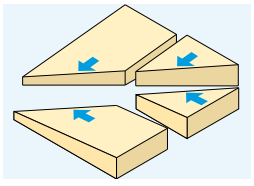


Figure 12: Cut to Falls pre-cut mitred boards at valley

DuoRock Cut to Falls continued

DuoRock Cut to Falls: Typical specifications

3 DuoRock (Tissue faced) roofing Board with built-up high performance bituminous membranes

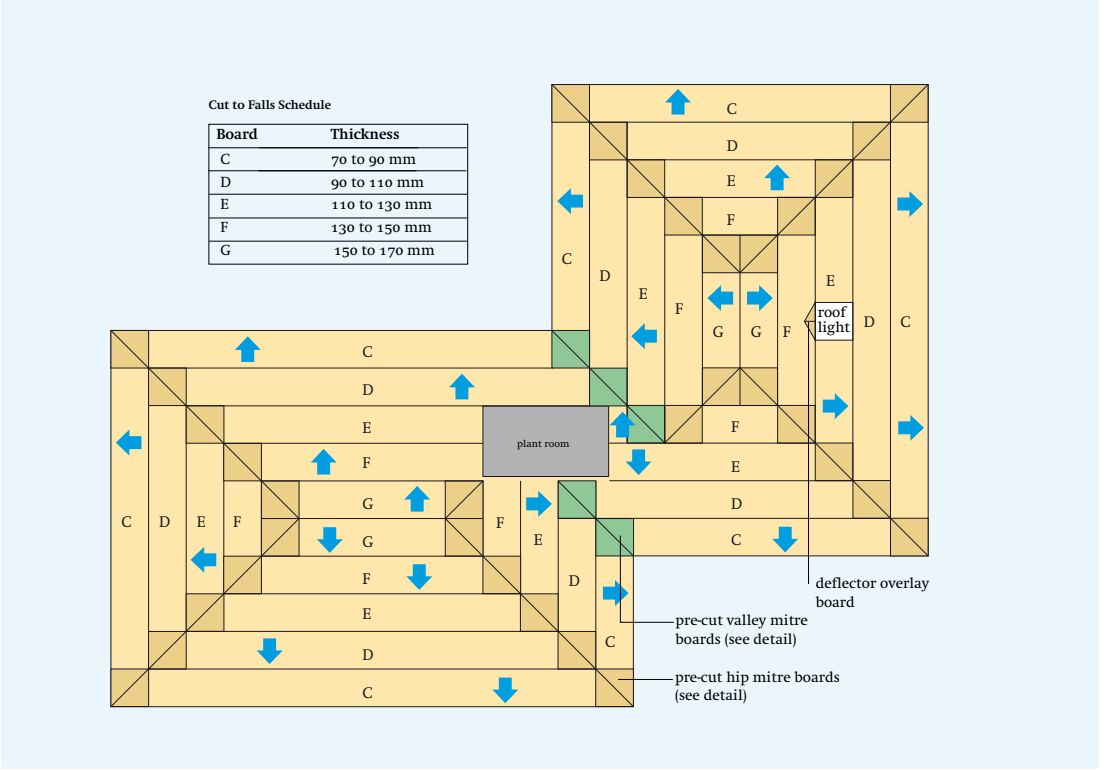
The roof insulation is to be Rockwool DuoRock Cut to Falls (Ref: CTF 1234), as manufactured by Rockwool Ltd, Pencoed, Bridgend, CF35 6NY. Minimum thickness ..... mm*, rising to a maximum thickness of ..... mm* with falls 1:60.

The boards are to be laid strictly in accordance with the design drawings provided, Cut to Falls guidance notes and manufacturer's recommendations. The boards are to be either fully bonded in hot bitumen or mechanically fastened through the vapour control layer to the deck.

For high-performance built-up applications the membrane must be bonded in accordance with BS 8217:2005.
A ventilating sheet (3G) is not required.

The advice of the membrane manufacturer should be sought when specifying all aspects of the vapour control layer, fasteners, waterproof covering and construction of walkways.

*Insert dimensions as appropriate



Typical Rockwool layout plan using Duorock Cut to Falls system

Work on site

Installation

DuoRock roofing boards should be laid with staggered joints wherever possible and tightly butted to avoid gaps. When using DuoRock roofing boards, ensure that the dense layer is used on the upper side towards the membrane. This is clearly marked on the boards as 'Rockwool This side up'. The use of small pieces of insulation board should be avoided.

Care should be taken to clean off all surfaces prior to the laying of insulation boards and membrane.

Appropriate stop battens should be installed to protect open edges of boards.

Day joints must be formed at the conclusion of each section of work to seal exposed edges of insulation boards and prevent damage.

Membrane installation
The membrane should be installed strictly in accordance with the manufacturer's specification and fastening requirements for wind uplift.

Typical application of a single ply membrane over DuoRock (Plain) roofing boards

Use of the Rockwool Rock Roller trolley allows fast and easy movement of boards across the roof decking

Water absorption
Rockwool consists of randomly orientated water-repellent fibres. Wetting will therefore only occur in proximity to its surface.

As Rockwool is diffusion open, boards that become wet during installation must be allowed to dry out naturally, prior to the application of the roof membrane.

Cutting DuoRock roofing Board
DuoRock roofing Board is easy to cut or shape using a sharp knife or panel saw.

Protection of DuoRock roofing Board during installation
Adequate temporary protection must be provided above the installed DuoRock roofing Board where any of the following occur: unloading or access points, temporary walkways, stockpiles of roofing materials, waste skips or any other activity that might cause damage to the insulation.

Working platform
Under no circumstances may the finished roof be used as a working platform without adequate protection being provided.

Rockwool Limited recommends that either the main contractor or the roofing contractor operate a 'permit to work' system for any follow-on trades in areas where the roof installation is complete.

Preparation work for refurbishment

Unless the existing roof finish is known to be sound and watertight, and the type and condition of the surface suitable for bonding or mechanical fixing of DuoRock roofing Board, all previously applied finishes and, if necessary, insulation layers should first of all be removed. It is recommended that the specifier/contractor checks the existing levels to ensure that the falls are correct.

Storage and handling

Rockwool DuoRock roofing boards are fully palletised and wrapped in a polythene shroud for protection during transit and for short term protection, if stored outside. For longer term protection the pallets should be stored under a secure waterproofing covering. DuoRock should be stacked no more than 2 pallets high for safety.

Where craning of pallets to roof level is required, the use of a pallet fork attachment is recommended.

Rockwool Rock Roller Trolley

To facilitate fast and easy movement of the DuoRock roofing boards from the loading area to the point of installation on the roof deck, Rockwool Limited have developed a purpose made 'trolley' (see opposite). Each Rock Roller comes complete with operating instructions, which should be followed by the roofing contractor.

Specify SPRA

The Single Ply Roofing Association (SPRA) represents membrane manufacturers, associated component manufacturers and specialist subcontractors and aims to ensure the delivery of best value single ply roofing systems, through a quality assured partnership.

By specifying products and specialist installation by SPRA Manufacturer, Associate and Contractor members you can be assured that all parties meet strict quality criteria. Compliance with these criteria and with the Code of Conduct is assessed at application, by annual audit and by random spot checks.

For further information, and to obtain copies of the SPRA Design Guide and other documents, go to www.spra.co.uk or call 0115 914 4445

SPRA
Associate Member

Health and safety

Current HSE 'CHIP' Regulations and EU directive 97/69/EC confirm the safety of Rockwool mineral wool; Rockwool fibres are not classified as a possible human carcinogen.

The maximum exposure limit for mineral wool is 5mg/m^3, 8 hour time-weighted average.

A Material Safety Data Sheet is available from Rockwool Customer Support (0871 222 1780) to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

Environment

Relying on entrapped air for its thermal properties, Rockwool insulation does not contain (and has never contained) gases that have Ozone Depleting Potential (ODP) or Global Warming Potential (GWP). Rockwool therefore complies with the relatively modest threshold of GWPL5 included in documents such as the Code for Sustainable Homes.

Rockwool Ltd is increasingly involved in recycling waste Rockwool material that may be generated during installation or at the end of life disposal.

We are happy to discuss the individual requirements of contractors and users considering returning Rockwool materials to our factory for recycling.

ZERO GWP
GLOBAL WARMING POTENTIAL

ZERO ODP
OZONE DEPLETING POTENTIAL

Eton boat house. DuoRock (Plain) roofing board. 1,200m^2

More information

For further details visit our website at www.rockwool.co.uk or phone the Customer Support 0871 222 1780

ROCKWOOL

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Printed on recycled paper