

# TRADITIONAL GRANWOOD FLOORING

## TECHNICAL INFORMATION

### SUBFLOOR SURFACE REQUIREMENTS

#### FOR CEMENT/SAND FIXING BED METHOD

Concrete subfloors should have a yard broom finish, be 20mm below finished floor level and be to the tolerances required on the finished floor.

#### FOR THIN SET ADHESIVE METHOD

Concrete subfloors should be wood float finished, be smooth, be 12mm below finished floor level and be to the tolerances required on the finished floor.

### CONCRETE SLABS

Reference should be made to the appropriate British Standard and to the recommendations of the Cement and Concrete Association.

### CEMENT/SAND SCREEDS

Reference should be made to British Standard 8204 and British Standard 5385. Thicknesses specified should allow for minimum thickness to be achieved at the highest point on the concrete slab.

### CURING OF CONCRETE SLABS & SCREEDS

Reference should be made to British Standard 5385.

### TOLERANCE OF LEVELS

Tolerances of concrete slabs and cement/sand screeds should be specified and guidance may be obtained from the appropriate British Standards and Codes of Practice. The tolerances required on the finished floor should be specified and guidance is given in BS 8204 and BS 5385. Guidance for tolerances within Sports Halls can be obtained from BS 7044.

### MOVEMENT JOINTS

Movement joints are formed in the Granwood floor above those designed into the subfloor construction and are filled with an appropriate flexible compound (by jointing specialist). All joints should be straight, continuous and parallel with straight walls.

### CONTRACTION JOINTS

Sawn contraction joints will be cut into the Granwood floor 3mm wide to an appropriate depth and filled with Granwood filler in a colour approximately matching the floor to coincide with similar joints in the base. Care should be taken to ensure that joints in the base are straight, continuous and parallel with straight walls. joints may be introduced at other positions if they are considered to be necessary.

### DAMP PROOF MEMBRANE

Where Granwood flooring is to be fixed directly to the concrete slab, the damp proof membrane should be placed beneath the structural slab. If the damp proof membrane is placed on top of the concrete slab, it should be covered with a cement/sand screed of not less than 50mm in thickness at the highest point of the slab. (Refer to BS 8204 and BS 5385).

### CONDUIT/PIPES

Conduit and pipes to be embedded in the subfloor should be securely anchored, covered with mesh reinforcement and overlaid with the recommended thickness of cement/sand screed. (Refer to BS 8204).

### STARTING TIME

Commencement of installation is usually undertaken when all plastering and screeding work has been completed. The building may not be dried out but reference should be made to BS 5385 for curing and drying periods of concrete slabs and screeds. BS 5385 calls for slabs to have been in place for at least seven weeks and for screeds to have been laid for at least four weeks before floor finishes are applied. We normally require four weeks notice to commence floor laying and two weeks notice for the finishing process.

### DELIVERY

Give adequate notice as all materials are sent from Derbyshire. General Contractor unloads materials and stores them under cover - see Terms on Quotation Form. Materials are packed in cardboard cartons and must be kept in dry conditions.

### UNDER FLOOR HEATING

The following schedule of operations and application of heat is recommended by the concrete and under floor heating associations. Heat should not be applied to the floor until a period of 28 days has elapsed after the embedding or topping screed has been laid. The heating system should then be turned on and the temperature of the floor gradually brought up to the intended surface temperature. This surface temperature should be maintained for a minimum of three days before the heating is turned off and the floor allowed to cool to room temperature before block fixing commences. The Granwood flooring may then be installed. 28 days after completion of the installation of the block flooring, the central heating should be switched on and the floor brought back up to its operating temperature at the rate of 5°C per day. Sanding and sealing of the Granwood surface may be commenced when the floor temperature can be maintained at approximately 16°C. It is normal for a subfloor construction with under floor heating to include an effective vapour barrier.

### FIXING BED

#### FOR CEMENT/SAND FIXING BED METHOD

A 13mm cement/sand fixing bed is mixed and laid by Granwood operatives from dry materials supplied and placed in position by the General Contractor at each floor level. Material requirement: 1 tonne of cement and 3 tonnes of fine, sharp washed (plastering/rendering) sand (BS 1199 Table 1 Type A) for each 125m<sup>2</sup> of floor area. Water supply required for mixing purposes.

#### FOR THIN SET ADHESIVE METHOD

Granwood operatives provide, mix and apply cementitious, water resistant ceramic tile adhesive conforming to BS 5980.

### INSTALLATION PROCEDURE

Floor blocks are laid butt jointed and beaten into the fixing bed so that the dovetailed keyways on the underside of the blocks become locked into position. All floor block joints are grouted, after which the General Contractor should protect the floor surface. Please note, the installation of a traditional Granwood floor is usually considered to be a 'first fix' trade.

### FINISHING PROCEDURE

After the fixing bed has dried (approx. 14-28 days for cement/sand fixing bed and approx. 3 days for thin set adhesive) and first coat decoration of the building has been applied, the floor is sanded with an electric floor sanding machine and coated with our polyurethane seal. A minimum temperature of 8°C must be maintained whilst the seal is being applied and it is curing.

### DUCT COVERS

Purpose-made metal duct covers are available. Please consult our Technical Sales Helpline.

### ELECTRICAL POWER CAUTION

Supply to be 230V. Our sanding machines can only operate on 230V. We provide circuit breakers as protection.

Floor blocks laid in cement/sand fixing bed or thin set bed may lose adhesion if trafficked before a period of 24 hours has elapsed.

### MAINTENANCE

When the building is occupied, the floor should be cared for using products recommended by Granwood Flooring Limited. Subsequent maintenance may consist of applying a floor dressing and cleaning the floor surface at appropriate time intervals. A company representative will provide free advice on and demonstrate procedures for individual maintenance programmes. Full information is available from our specialist subsidiary Granwax Products Limited. The floor will require periodic resealing and free guidance can be obtained from Granwood Flooring Limited. The life expectancy of the seal is dependent upon the type and frequency of usage, the type of floor dressing used (if any) and the effectiveness of the day to day cleaning regime.

## TECHNICAL SALES HELPLINE: 01773 606060

# GRANWOOD FLOORING BLOCKS

Granwood is a wood composition flooring block composed of wood granules, fillers, pigments and linseed oil. It is hydraulically press formed and unique curing processes polymerise and oxidise the linseed oil to impart the properties of stability and water, fire, abrasion and chemical resistance. Granwood blocks are guaranteed against warping, curling, buckling and splintering irrespective of changes in temperature or humidity and are resistant to abrasion, attack by vermin and termites whilst the growth of dry rot and wet rot is impossible.

**Dimensions:** 174mm x 57mm x 10mm (nominal).

**Thermal resistance:** 0.028m<sup>2</sup>k/w.

**Fire resistance:** Granwood has a zero Fuel Contribution Factor and is resistant to flame action in temperatures exceeding 800°C. See various international test results, including A.S.T.M. E. 84-70.

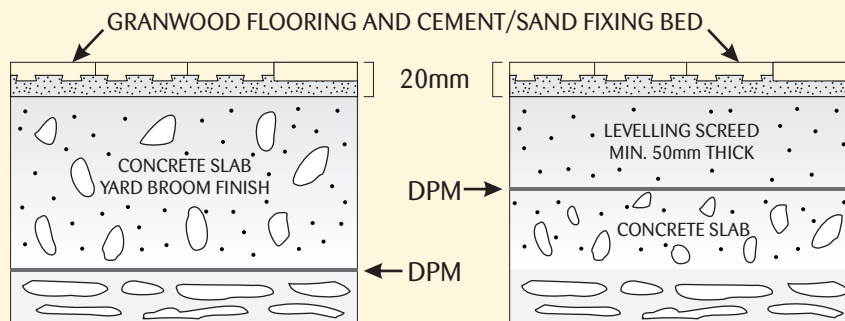
**Water resistance:** The Granwood block is unaffected by extremes of humidity and survives flood conditions. This remarkable stability has been proven in many situations where other floors would require repair or replacement.

**Environment:** Granwood blocks do not contain hardwoods and are manufactured using what might otherwise be waste softwood.

**Quality:** Quality is constantly monitored under our BS EN 29022 registration.

## TRADITIONAL GRANWOOD INSTALLATION METHODS

### CEMENT/SAND FIXING BED METHOD (Normal standard fixing method)

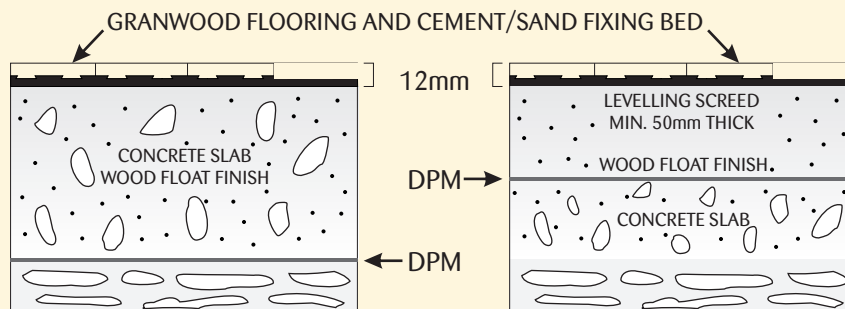


#### Notes

- (i) Concrete slabs should be consolidated, left with a yard broom finish 20mm below finished floor level and be to the tolerances required on the finished floor.
- (ii) Levelling screeds should be left with a wood float finish 20mm below finished floor level and be to the tolerances required on the finished floor.
- (iii) Granwood operatives mix and install a 13mm fixing bed of cement and sand, in the ratio 1 :3, using dry materials provided by the General Contractor.

**Architectural Specification:** Supply and fix in a cement/sand fixing bed 174mm x 57mm x 10mm nominal GRANWOOD FLOORING on a yard broom finished concrete subfloor or wood float finished levelling screed which should be left 20mm below finished floor level and grout all joints. Machine sand the whole floor surface and seal with Granwood polyurethane seal. (Indicate choice of colour and laying pattern of the floor blocks).

### THIN SET ADHESIVE METHOD



#### Notes

- (I) Concrete slabs and screeds should be consolidated, left with a wood float finish 12mm below finished floor level and be to the tolerances required on the finished floor.
- (II) Granwood operatives supply, mix and apply cementitious, water-resistant ceramic tile adhesive using a notched, solid bed steel trowel.

**Architectural Specification:** Supply and fix with cementitious, water resistant ceramic tile adhesive 174mm x 57mm x 10mm nominal GRANWOOD FLOORING to a level and wood floated concrete subfloor or screed which should be left 12mm below finished floor level and grout all joints in self colour grout. Machine sand the whole floor surface and seal with Granwood polyurethane seal. (Indicate choice of colour and laying pattern of the floor blocks).



### Granwood Flooring Limited

Sales Office  
PO Box 60  
Alfreton  
DE55 4ZX

Sales Tel: 01773 606060  
Contracts Tel: 01773 602341  
Fax: 01773 606030  
www.granwood.co.uk



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