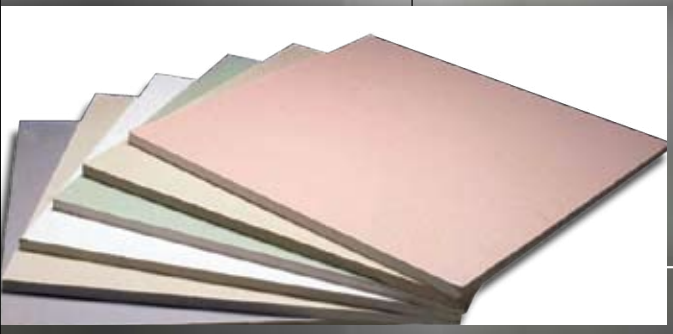

Gyproc Activ'Air

Technical Datasheet

ACTIV air

Gyproc
SAINT-GOBAIN

Gyproc Activ'Air Product Datasheet

Introduction

Characteristics
Gyproc Activ'Air consists of an aerated gypsum core with other additives encased in, and firmly bonded to, strong paper liners and is suitable for drylining internal surfaces. Gyproc Activ'Air actively improves indoor air quality by taking VOC's^ out of the air.

Applications
Activ'Air technology takes the VOC's^ and converts them in to safe, inert compounds that, once captured in the board, cannot be released back in to the air. It keeps working for 75 years, based on tests and analysis, even after multiple renovations.

Gyproc Activ'Air is suitable for most system applications where normal fire, structural and acoustic levels are specified. Suitable for direct decoration.

^VOCs (volatile organic compounds)

Board colour
- ☐ Ivory face paper
- ■ Brown reverse side paper

Board printing
Reverse - Standards, date, board dimensions, edge type, company name and logo.

Board range•

Width mm	Length mm*	Edge Type
12.5mm board	Kg/m² = 9.00 R (m²K/W) = 0.05	
1200	2400	T/E S/E
1200	3000	T/E S/E
15mm board	Kg/m² = 10.90 R (m²K/W) = 0.08	
1200	2400	T/E S/E
1200	3000	T/E S/E

T/E = Tapered Edge S/E = Squared Edge
*Other lengths available on request

•Gyproc Activ'Air is also available in a Moisture Resistant, FireStop, DuraLine and M2TECH variant

Finishing

Board types
T/E - with Gyproc jointing materials for taped and filled joints
S/E - with Gyproc jointing materials for taped and filled joints

Jointing
Gyproc jointing materials (Gyproc Jointing Compound) produce durable joint reinforcement and a smooth, continuous, crack-resistant surface ready for priming and final decoration. A number of jointing specifications are available to suit the board type, method of application, and site preference.

Decoration
After the joint treatment has dried, decoration including any decorator's preparatory work should follow. Please note however that any decoration should be breathable to allow VOC's^ to be absorbed by the board. Please refer to the following notes.

- Painting : Only use water based (acrylic) and epoxy paints or any other breathable paints.
- Wallpaper : Use only breathable wallpapers.

Limitations
Finishes other than water based acrylic (latex) and epoxy paint, primer and textures or breathable wallpaper that restrict the board surface permeability may inhibit the VOC's^ absorption properties.

Tiling, marble and other wall coverings can be applied, however this will limit the absorption of VOC's^ for the area covered.

Repair
Minor damage - Lightly sand the surface to remove burrs and fill flush with two applications of Gyproc Jointing Compound. When dry decorations including any decorator's preparatory work should follow.

Deep indents resulting from impact - Check the plasterboard core to ensure that it is not shattered. If intact, apply a coat of Gyproc Jointing Compound, followed by the procedure for repairing minor damage, once set/dry.

Damaged core and/or broken edges (non-fire rated or non-high impact situations only) - Remove the damaged area of core. Score the liner approximately 10mm away from the undamaged core around the damaged area, and peel the paper liner away. Apply PVA to seal the core and surrounding liner. Bulk fill the hole with Gyproc Jointing Compound, and strike off flush. Once the filler is set/dry, follow the procedure for repairing minor damage.

Extensive damage - When the damage is more extensive, it may be necessary to replace that area of plasterboard. It is important that the replacement board is of the same type as specified and installed. Cut out the affected area back to the nearest framing member. Replace the plasterboard accurately cutting and fixing the same type and thickness of Plasterboard.

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Standards

ISO 16000-23: 2009 Indoor Air Quality

EN520: 2004 Gypsum Plasterboards, definitions, requirements and test methods

Type A: Gypsum plasterboard

Plasterboard with a face to which suitable gypsum plasters or decoration.

BS1230: PART 1: 1985 Specification for plasterboard excluding materials submitted to secondary operation.
Type 1: Gypsum Wallboard: Linings to walls, ceiling and partition to receive decoration.

ASTM C 1396: Standard Specification For Gypsum Board
Section 5: Gypsum wallboard, predecorated gypsum board

Board Performance

Fire protection
Plasterboard linings provide good fire protection owing to the unique behaviour of the non-combustible gypsum core when subjected to high temperatures. The inclusion of glass fibre and other additives in the core of Gyproc CoreBoard improves its fire protection properties when compared to standard plasterboard.

Fire resistance
Please refer to the Middle East WHITE BOOK product or systems section for information on the fire resistance of building elements lined with Gyproc Activ'Air.

Indoor air quality
Activ'Air is a revolutionary plasterboard from Gyproc that uses innovative technology to improve indoor air quality by taking VOC's^ out of the air and convert them in to safe, inert compounds that, once captured in the board, cannot be released back in to the air. It keeps working for 75 years, based on tests and analysis, even after multiple renovations.

^VOCs (volatile organic compounds) – formaldehyde and other aldehydes.

Effect of temperature
Gyproc Activ'Air is unsuitable for use in areas subject to continuously damp or humid conditions and must not be used to isolate dampness. Plasterboards are not recommended to be stored in for use in temperatures above 49°C but can be subjected to freezing conditions without risk of damage.

Effect of condensation
Designers should take care to eliminate all possibility of problems caused by humidity and condensation, particularly in refurbishment projects.

Reaction to fire test performance

Standard	Performance
BS 476: Part 6: 1989 Method of test for fire propagation for products.	Index of performance (I) not exceeding 12 and a sub-index (i1) not exceeding 6.
BS 476: Part 7: 1997 Surface spread of flame tests for materials.	Class 1 (both sides)
EN 520: 2004	Classified without further testing as A2-s1, d0

Thermal conductivity
Gyproc Activ Air - 0.19W/mK

Installation

General
It is important to observe appropriate health and safety legislation when working on site i.e. personal protective clothing and equipment etc. The following notes are intended as general guidance only. In practice, consideration must be given to design criteria requiring specific project solutions.

Handling
Manual off-loading of this product should be carried out with care to avoid unnecessary strain. For further information please refer to the Manual Handling section of the Middle East WHITE BOOK.

Cutting
The product may be cut using a plasterboard saw or by scoring with a sharp knife and snapping the board over a straight edge. When cutting boards, power and hand tools should be used with care and in accordance with the manufacturer's recommendations. Power tools should only be used by people who have been instructed and trained to use them safely. Appropriate personal protective equipment should be used.

Fixing
Fix boards with decorative side out to receive joint treatment. Lightly butt boards together. Never force boards into position. Install fixings not closer than 13mm from cut edges and 10mm from bound edges. Position cut edges to internal angles whenever possible, removing paper burrs with fine sandpaper. Stagger horizontal and vertical board joints between layers by a minimum of 600mm. Locate boards to the centre line of framing where this supports board edges or ends.

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Health & Safety

1. Identification of the substances / preparation and company

Gyproc Plasterboards

Gyproc Regular
Gyproc Moisture Resistant
Gyproc DuraLine
Gyproc FireStop
Gyproc FireStop MR
Gyproc CoreBoard
Gyproc M2TECH
Gyproc Activ'Air

Supplier
Saint-Gobain Gyproc Emirates Industries L.L.C
ICAD 1
Mussafah, Abu Dhabi
United Arab Emirates
P.O. Bx 38983
Free Phone: 800 GYPROC (497762)

Recommended uses: Gyproc Plasterboards are used as internal linings in building. This information reflects typical values and is not a product specification.

2. Composition / information on ingredients

Calcium sulphate hemihydrate and limestone, natural constituents may include minor amounts of quartz. Calcium sulphate dihydrate encased in paper liners, natural constituents may include minor amounts of quartz. Small quantities of chopped glass fibre, microsilica and vermiculite may be added, with starch, foam and dispersants. Any board may contain small quantities of chopped man-made mineral fibre and microsilica.

Certified as Asbestos free by Al Hoty - Stanger Laboratories
Certificate: A10 - 141656

3. Hazards identification

These products are not classified as dangerous according to CHIP. CHIP is the law that applies to suppliers of dangerous chemicals. Its purpose is to protect people and the environment from the effects of those chemicals by requiring suppliers to provide information about the dangers and to package them safely.

Dust from sawing or sanding may irritate the respiratory system, skin & eyes.

4. First aid measures

Eye contact	Wash eyes with clean water.
Skin contact	Wash thoroughly with soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse out mouth thoroughly and give plenty of water.
Inhalation	If irritation occurs, remove person to fresh air.
General	Seck medical attention if any symptoms persist.

5. Fire fighting measures

The products do not pose a fire hazard. However, some packaging materials may burn.

Suitable extinguishing media – water, foam, carbon dioxide or dry powder.

6. Accidental release measures

Control dust formation, vacuum or sweep up and put into bags. Prevent products from blocking drains and watercourse as a powder or slurry. (Refer to section 13 Disposal considerations).

7. Handling and storage

Use – Minimise dust generation when sawing or sanding in poorly ventilated places Avoid eye contact - see Section 8 for recommended personal protective equipment and Section 3 for hazards identification.

Plasterboards will not support body weight between rafters, joints or frame members.

Manual handling – Sheets of plasterboard can be unwieldy, use an appropriate lifting technique. The weight of each sheet can vary between products. For manual handling purposes assume the following:

Gyproc Activ'Air weights

Board	Board thickness mm	Board width mm	Board length mm	Board weight kg	Pallet weight tonnes
Gyproc Activ'Air	12.5	1200	2400 3000	24.77 30.96	2.022 2.020
T/E & S/E	15	1200	2400 3000	31.39 39.24	1.785 2.062

NB: All weights are approximate.

Mechanical handling – The dimensions of the pallet vary depending on the product size. To avoid potentially overloading a lift truck, it is important that any effect on load centres is considered. The nominal weight of each palletised load is given within the weights table in this section of this document.

Storage – Store plasterboard as supplied in dry conditions. To maintain stability, place the stack on firm level ground, and ensure that stacks are both level and vertical.

NB: When working with individual boards, only work from a single pallet, not a stack.

Pallet stacking heights
The maximum stack heights on level concrete floors and vertical stacks are as follows:-

Board width mm	Board length mm	Pallet stack height packs
1200	2400 3000	4 4

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8. Exposure control / personal protection
Workplace exposure limit

Substance	Total inhalable	Respirable
Plaster	10mg/m^3 8hr TWA	4mg/m^3 8hr TWA
Quartz (silica)	0.3mg/m^3 8hr TWA	0.1mg/m^3 8hr TWA
Man Made Mineral Fibres (MMMF)	5mg/m^3 8hr TWA (gravimetric method)	-

NB: HSE guidance – control exposure to <0.1mg/m^3 (8hr TWA)

Personal protection

Respiratory — Use in a well ventilated area. Where practicable use engineering methods to control dust levels. If the exposure standards could be exceeded use a disposable face mask complying with EN 149 FFP2.

Skin — Wear appropriate clothing to protect against repeated or prolonged skin contact.

Eye — If there is a risk of material entering the eye, wear eye protection to BS EN 166.

9. Physical and chemical properties
Flat sheet boards in different widths and thicknesses, with a square or tapered edge.

10. Stability and reactivity
No special physical conditions need to be avoided. No specific restrictions regarding incompatible materials.

11. Toxicology information
No known toxicological effects.

12. Ecological information
Stable product with no known adverse environmental effects.

13. Disposal consideration
Waste from gypsum plasterboard products is normally classified as 'non-hazardous' but should not be co-disposed with municipal waste. Dispose at an authorized landfill site in accordance with the local waste management regulation.

14. Transport information
Not classified as hazardous for transportation.

15. Regulatory information
Not classified under the CHIP regulations.

16. Other information
Regulation no. EI004 Soild Hazardous materials 1st Edition January 2010 Abu Dhabi Environment, Health and Safety Manegment System Regulations Framework (ADEHSMS)
The Gyproc website: www.gyproc.ae
The Middle East WHITE BOOK

Note to User:
This Product Data Sheet does not constitute a workplace risk assessment for COSHH.

There are a number of situations where the approach to manual handling of Gyproc products should be considered. For further guidance, please refer to the Manual Handling section of the Middle East WHITE BOOK which can be downloaded from www.gyproc.ae.

www.gyproc.ae

Saint-Gobain Gyproc Middle East FZE
P.O. Box. 261107
Dubai, U.A.E.
Tel: +971 (4) 4502300
Fax: +971 (4) 4468701

Saint-Gobain Gyproc Emirates Industries L.L.C
P.O. Box 38983
ICAD 1, Mussafah
Abu Dhabi, UAE

Gyproc reserves the right to revise product specifications without notice. The information in this document was correct to the best of our knowledge at the time of publication. It is the user's responsibility to ensure that it remains current prior to use. The information in this document is for guidance only and should not be read in isolation. Users should read and familiarize themselves with all the information contained in this document and ensure that they are fully conversant with the products and systems being used, before subsequent specification or installation.

PEFC
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Vegetable ink has been used in printing this datasheet

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