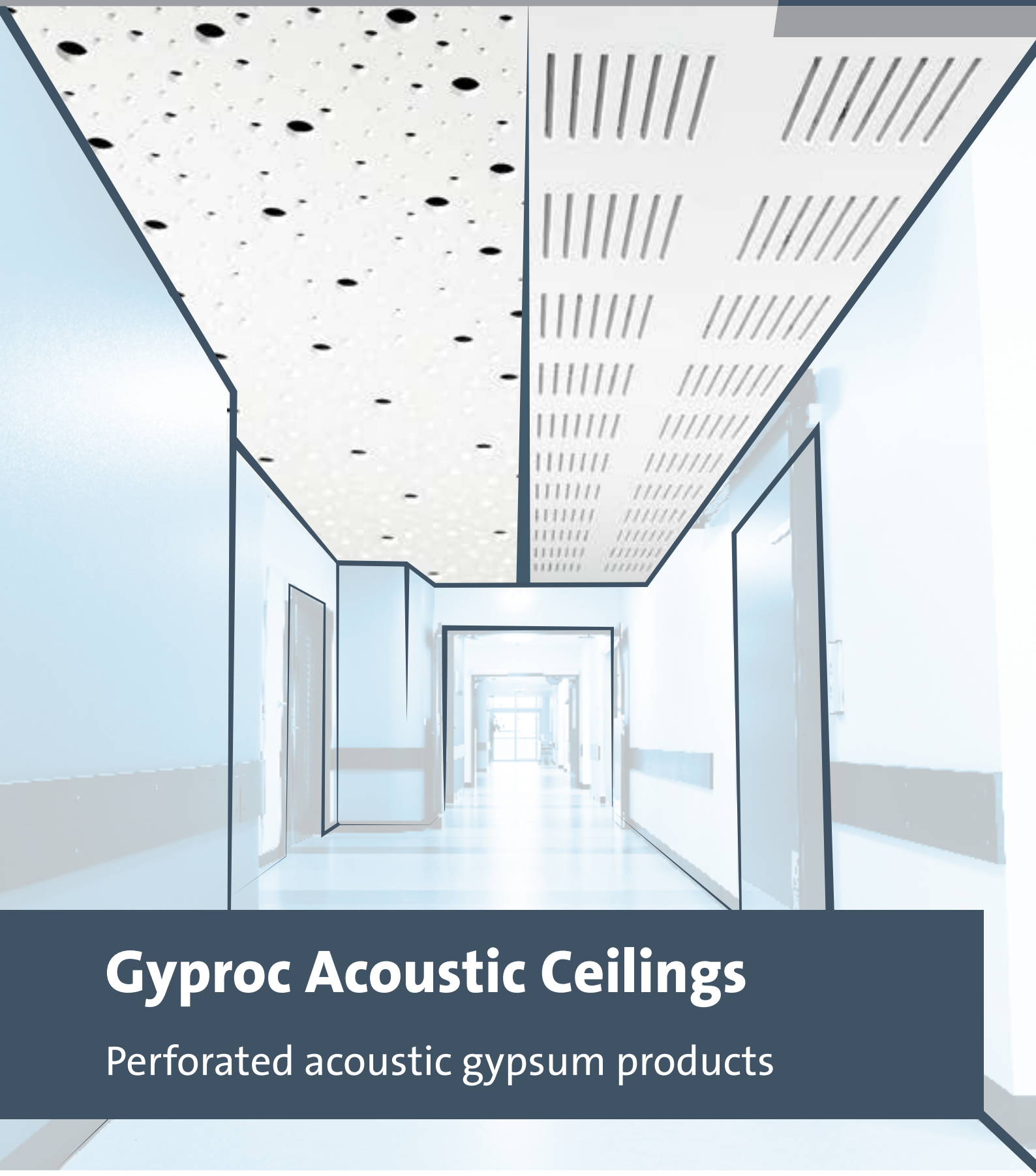


Gyproc Acoustic Ceilings

Perforated acoustic gypsum products

Gyproc
SAINT-GOBAIN

PRODUCT Gyptone Activ'Air LINE 6

PROJECT GEMS International School, UAE

Table of Contents

Introduction

Acoustics is an integral part of a building environment and hence is a necessary factor of design just like fire protection or lighting conditions. Acoustics is however starting to become a more important parameter of quality for the building environment and the final experience of a good indoor environment.

Standards and guidelines have been made which specify the minimum requirements for acoustics, different materials' acoustic standards and now most recently the categorisation of the building environment in different classes of acoustic quality.

Basis for Sound

The desired effect of acoustics will always depend on the function or purpose of a room. Acoustics which meet the requirement for a concert hall may not be suitable for a classroom. All acoustic requirements are expressed as physical measurable amounts, e.g. reverberation time. The problem is that even if these requirements are fulfilled it does not necessarily mean there is good acoustics. We can easily define building acoustic requirements as minimum sound insulation or acceptable noise levels.

A significant factor for a good indoor climate is pleasant acoustics in rooms. Both sound insulation and room acoustics are decisive factors for a sound level where noise is removed or absorbed and desired sound can be heard.

Gyproc's Acoustic Ceilings and Wall Range

Our acoustic ceilings and walls range includes Gyptone Activ'Air and Rigitone products. Both are perforated gypsum based products and provide high quality sound absorption. Gyptone Activ'Air products are available in boards, tiles, planks and traps whereas Rigitone products come in a range of boards for a seamless finish.

Download our ceilings app to view global project references, product information and technical details

Available on the App Store

Scan the QR code with your device's QR Reader* and go directly to our App on the App Store.
* You can download a QR Reader/Scanner App for your device from the App Store.

Gyptone Activ'Air

The Gyptone Activ'Air acoustic ceiling range are designed to improve acoustic climate and air quality in schools, kindergartens, offices, retail and in the health sector. The ceilings will reduce VOC levels, reverberation time and improve speech intelligibility in a given room. They are made from predominantly recycled gypsum, natural and industrial gypsum, plus recycled gypsum collected from construction sites. The paper backing on gyptone is also made from 100% natural materials and contains no environmentally harmful substances. Used Gyptone Activ'Air tiles can be completely recycled in the production of new gypsum products.

Gyptone Activ'Air acoustic ceilings contribute to aesthetics, acoustics and improvement of the indoor environment in many different types of construction. They are durable with a very long lifespan and low maintenance costs contributing to Gyptone's considerable sustainable properties. They are made from 100% natural materials.

The Gyptone Activ'Air acoustic ceilings and wall range allows you to create large ceiling surfaces without visible joints. Only the oblong, hexagonal or square perforations are visible. The surfaces are robust with high impact resistance.

What is Activ'Air?
Activ'Air is a patented technology, which converts VOCs, such as formaldehyde into non-harmful inert compounds that cannot be released back into the air.

What are VOCs?
VOCs (Volatile Organic Compounds) are organic chemicals with a high vapour pressure at ordinary room temperature. VOCs are numerous, varied and all around us. They include both manmade and natural occurring chemical compounds. Harmful VOCs are typically not acutely toxic, but the mixture of VOCs have long term harmful effect, because the concentration is low and the symptoms develop slowly.

VOC <100µg/m^3
Formaldehyde <10 µg/m^3

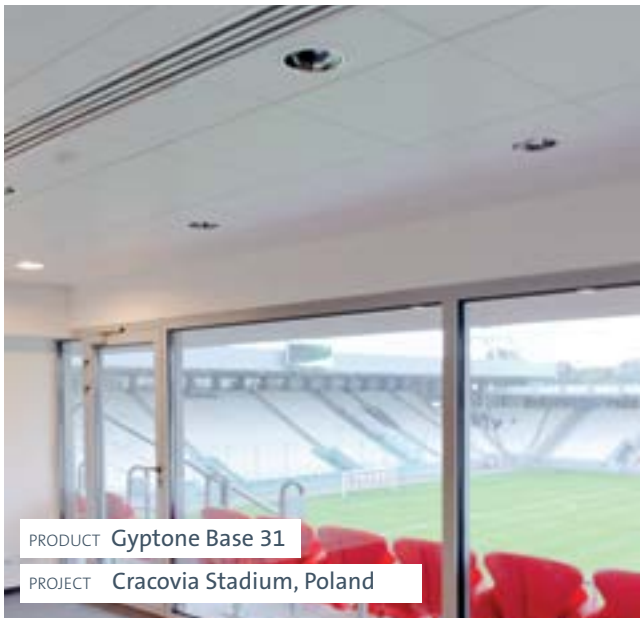
Gyproc plasterboards fall well below the requirements of European voluntary labelling schemes connected with indoor air quality.

Why is indoor environment important?
Research indicates that people spend up to 90% of their time indoors. Therefore, the indoor environment and the quality of air that surrounds us, is incredibly important. Many materials, such as furniture, carpeting, paint etc. emit VOCs. This means that high concentrations of formaldehyde can be found in the air we breathe in many indoor spaces.

Legislation

WHO's recommendation
The total formaldehyde concentration in indoor air should not be above 0.1 mg/m^3 (100 µg/m^3).
Green Building Certification Systems (GBCS). Activ'Air contains no harmful components and hence contributes positively to GBCS certification, such as LEED, BREEAM, ESTIDAMA etc.

Gyptone Activ'Air Project References



PRODUCT Gyptone Base 31
PROJECT Cracovia Stadium, Poland

PRODUCT Gyptone Quattro 46
PROJECT Youth House, Serbia

PRODUCT Gyptone Line 6
PROJECT GEMS International School, UAE

PRODUCT Gyptone Point 11
PROJECT Schiekade Rotterdam, Netherlands

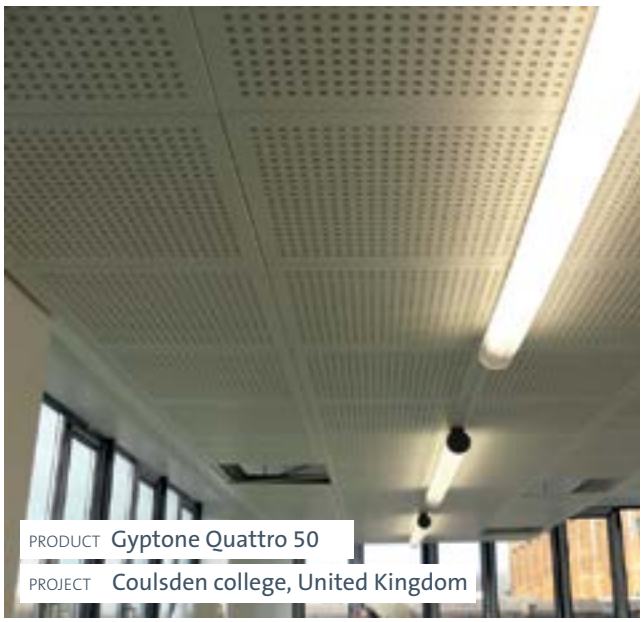
PRODUCT Gyptone Quattro 20
PROJECT Abu Dhabi Future Schools, UAE

PRODUCT Gyptone Quattro 41
PROJECT Dental Surgery Faculty, Thailand

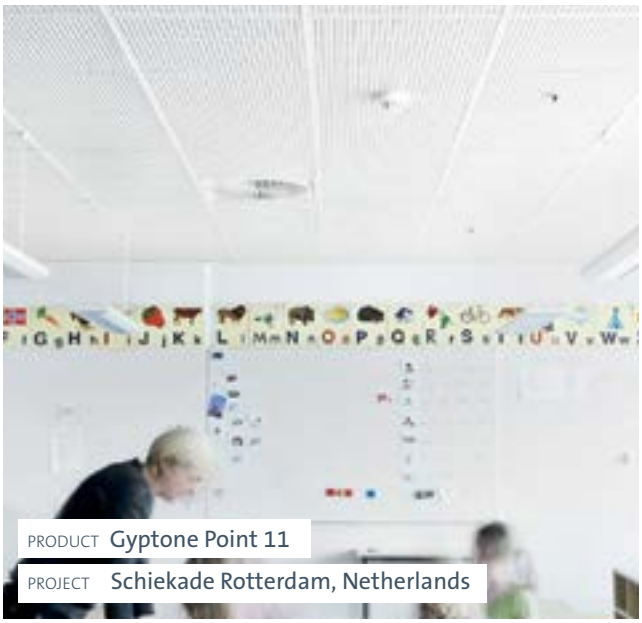
Gyptone Activ'Air Project References

PRODUCT Gyptone Quattro 42
PROJECT Helsfyr Atrium, Norway

PRODUCT Gyptone Quattro 46
PROJECT Innovation Tunnel, Spain

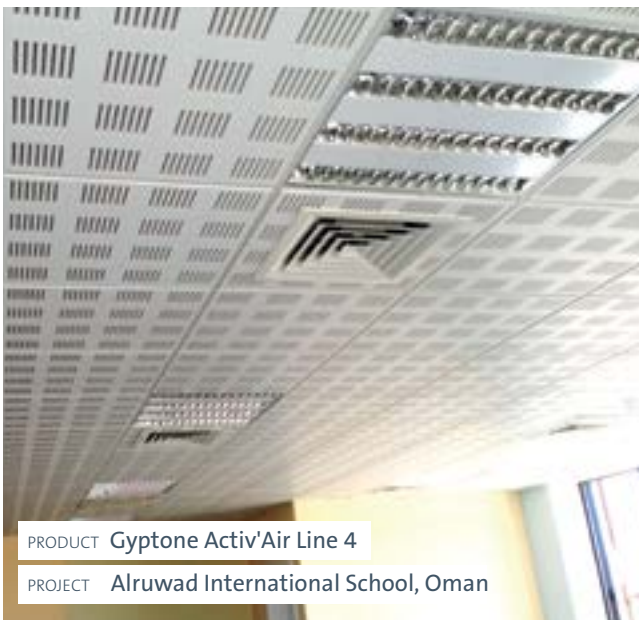


PRODUCT Gyptone Quattro 50
PROJECT Coulsden college, United Kingdom



PRODUCT Gyptone Point 11
PROJECT Schiekade Rotterdam, Netherlands

PRODUCT Gyptone Trap
PROJECT Eidsiva Energy, Norway

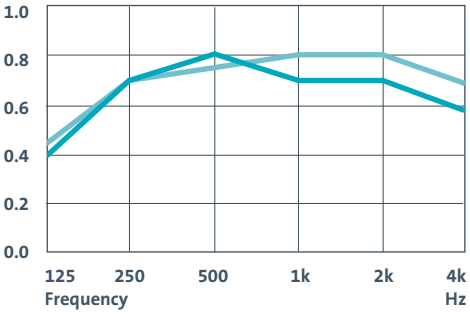


PRODUCT Gyptone Activ'Air Line 4
PROJECT Alruwad International School, Oman

Gyptone Activ'Air Quattro 20

Acoustics

Practical absorption coefficient αp

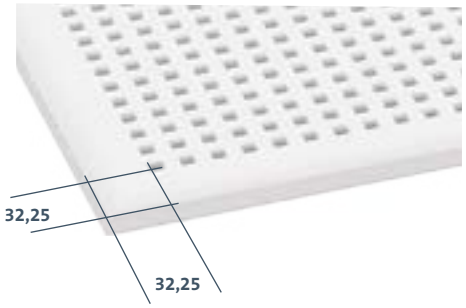


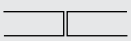
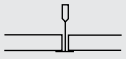
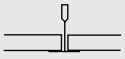
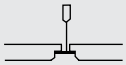
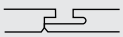
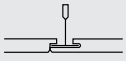
							NRC	α_w
0.45	0.70	0.75	0.80	0.80	0.70	0.75	0.80
0.40	0.70	0.80	0.70	0.70	0.60	0.70	0.70

Construction height 300mm with 70mm glass wool

Construction height 200mm

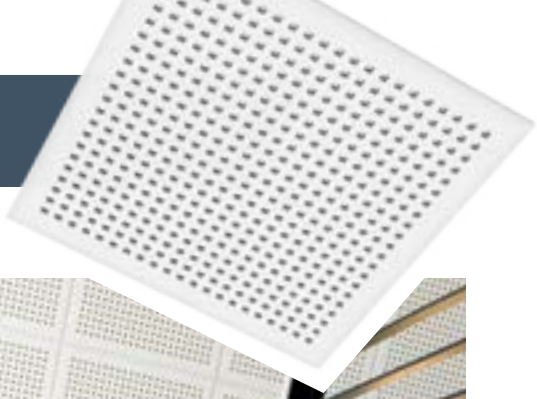
Perforation size	9 x 9mm, cc 19.5mm
Perforated area	18%



Edges	Modular size (mm)	Thickness (mm)	Grids	Fixing/surface treatment
Edge A 	600 x 600 (actual size 594x594)	10/12.5*	Exposed T-15 grid  Exposed T-24 grid 	Demountable/Pre-painted
Edge E15 	600 x 600 (actual size 592x592)	10/12.5*	Exposed, recessed T-15 grid 	Demountable/Pre-painted
Edge D2 	600 x 600	12.5*	Concealed T-24 grid 	Demountable/Pre-painted

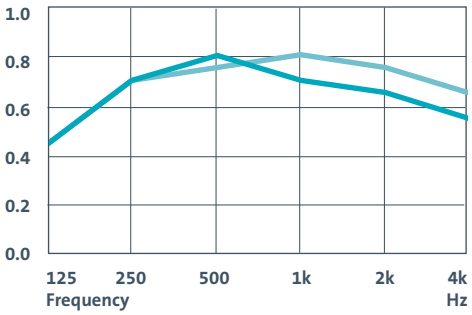
* 12.5mm tiles are not supplied with Activ'Air

Gyptone Activ'Air Quattro 50



Acoustics

Practical absorption coefficient αp



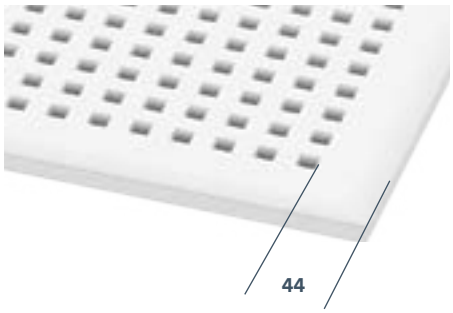
							NRC	α_w
0.45	0.70	0.75	0.80	0.75	0.65	0.75	0.75
0.45	0.70	0.80	0.70	0.65	0.55	0.70	0.70

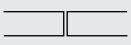
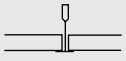
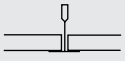
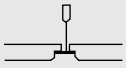
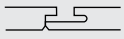
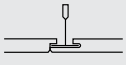
Construction height 300mm with 70mm glass wool

Construction height 200mm

Perforation size 12 x 12mm, cc 18mm

Perforated area 18%



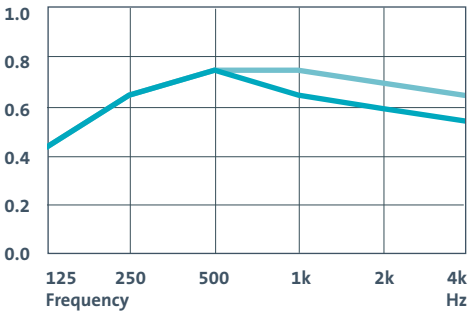
Edges	Modular size (mm)	Thickness (mm)	Grids	Fixing/surface treatment
Edge A 	600 x 600 (actual size 594x594)	10/12.5*	Exposed T-15 grid  Exposed T-24 grid 	Demountable/Pre-painted
Edge E15 	600 x 600 (actual size 592x592)	10/12.5*	Exposed, recessed T-15 grid 	Demountable/Pre-painted
Edge D2 	600 x 600	12.5*	Concealed T-24 grid 	Demountable/Pre-painted

* 12.5mm tiles are not supplied with Activ'Air

Gyptone Activ'Air Point 11

Acoustics

Practical absorption coefficient αp



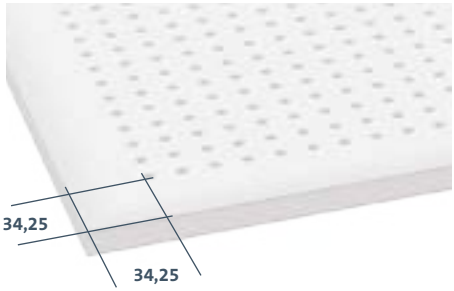
							NRC	α_w
0.45	0.65	0.75	0.75	0.70	0.65	0.70	0.75
0.45	0.65	0.75	0.65	0.60	0.55	0.65	0.65

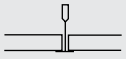
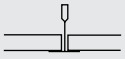
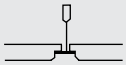
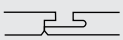
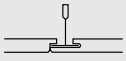
Construction height 300mm with 70mm glass wool

Construction height 200mm

Perforation size Dia. 6.5mm, cc 15mm

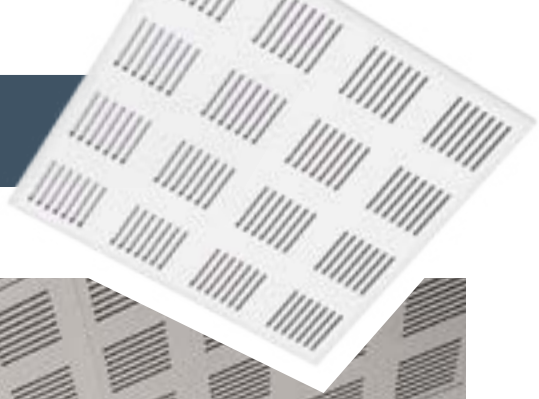
Perforated area 12%



Edges	Modular size (mm)	Thickness (mm)	Grids	Fixing/surface treatment
Edge A 	600 x 600 (actual size 594x594)	10/12.5*	Exposed T-15 grid  Exposed T-24 grid 	Demountable/Pre-painted
Edge E15 	600 x 600 (actual size 592x592)	10/12.5*	Exposed, recessed T-15 grid 	Demountable/Pre-painted
Edge D2 	600 x 600	12.5*	Concealed T-24 grid 	Demountable/Pre-painted

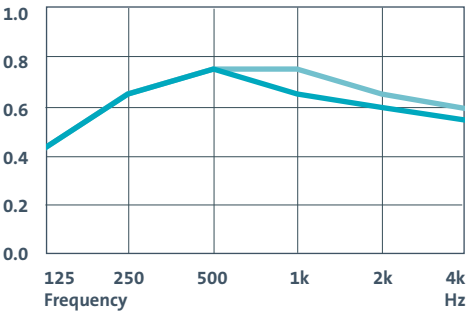
* 12.5mm tiles are not supplied with Activ'Air

Gyptone Activ'Air Line 4



Acoustics

Practical absorption coefficient αp

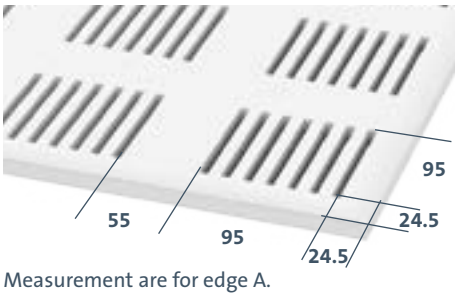


							NRC	α_W
0.45	0.65	0.75	0.75	0.65	0.60	0.70	0.70	
0.40	0.70	0.80	0.65	0.60	0.50	0.70	0.65	

Construction height 300mm with 70mm glass wool

Construction height 200mm

Perforation size	6 x 95mm
Perforated area	18%



Measurement are for edge A.

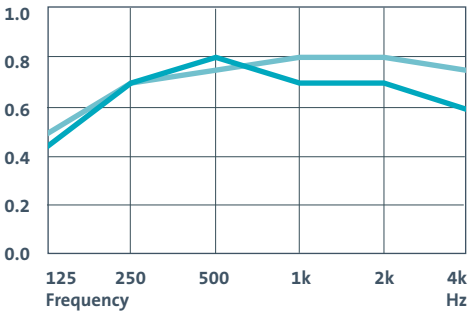
Edges	Modular size (mm)	Thickness (mm)	Grids	Fixing/surface treatment
Edge A	600 x 600 (actual size 594x594)	10/12.5*	Exposed T-15 grid / Exposed T-24 grid	Demountable/Pre-painted
Edge E15	600 x 600 (actual size 592x592)	10/12.5*	Exposed, recessed T-15 grid	Demountable/Pre-painted
Edge D2	600 x 600	12.5*	Concealed T-24 grid	Demountable/Pre-painted

* 12.5mm tiles are not supplied with Activ'Air

Gyptone Activ'Air Sixto 60

Acoustics

Practical absorption coefficient αp



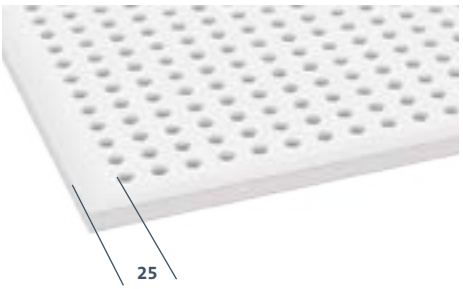
							NRC	α_w
0.50	0.70	0.75	0.80	0.80	0.75	0.75	0.80
0.45	0.70	0.80	0.70	0.70	0.60	0.70	0.70

Construction height 300mm with 70mm glass wool

Construction height 200mm

Perforation size Dia. 11mm, cc 20mm

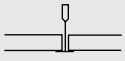
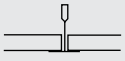
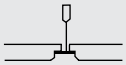
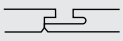
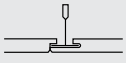
Perforated area 17%



Edges	Modular size (mm)	Thickness (mm)	Grids	Fixing/surface treatment
Edge A	600 x 600 (actual size 594x594)	10/12.5*	Exposed T-15 grid / Exposed T-24 grid	Demountable/Pre-painted
Edge E15	600 x 600 (actual size 592x592)	10/12.5*	Exposed, recessed T-15 grid	Demountable/Pre-painted
Edge D2	600 x 600	12.5*	Concealed T-24 grid	Demountable/Pre-painted

* 12.5mm tiles are not supplied with Activ'Air

Gyptone Activ'Air Base 31

Edges	Modular size (mm)	Thickness (mm)	Grids	Fixing/surface treatment
Edge A 	600 x 600 (actual size 594x594)	10/12.5	Exposed T-15 grid  Exposed T-24 grid 	Demountable/Pre-painted
Edge E15 	600 x 600 (actual size 592x592)	10/12.5	Exposed, recessed T-15 grid 	Demountable/Pre-painted
Edge D2 	600 x 600	12.5	Concealed T-24 grid 	Demountable/Pre-painted

* 12.5mm tiles are not supplied with Activ'Air

Design and technical data

Product description
Gyptone Tiles are based on a specialised perforated gypsum board reinforced with glassfibre and combined with an acoustic tissue, which provides excellent acoustic properties.

VOC reducing properties
Gyptone Activ'Air is designed to convert VOC emissions emitting from building materials, paint, furniture, carpets etc. The patented technology breaks down VOCs, like formaldehyde, into non-harmful inert compounds. Activ'air can reduce formaldehyde concentrations up to 70 % *.

Fixing
Gyptone exposed and recessed tiles are suitable for all standard grid sysytems, concealed tiles require Gyptone grid system.

Surface
Gyptone Tiles are supplied prepainted.
The paint used is color NCS 0500.

Fire
A2-s1, d0.

Edges
A, E15 and D1.

Gloss and light reflection
Gloss value 5-9 according to ISO 2813.
Light reflection approx. 70% with standard paint finish.

Dimensional stability
Gyptone Line should be installed and used in areas with a relative humidity not exceeding 70% for prolonged periods.

Dimensions
Modular sizes 600 x 600.
Thickness: 10/12.5mm.

Weight
Approx. 6.6 kg/m² for 10mm
Approx. 8 kg/m² for 12.5mm

Cleaning
Gyptone Tiles can be cleaned with a damp cloth. Most standard cleaning agents can be used.

Maintenance
Repainting must be done with a roller. The tiles must not be spray-painted, as this impairs sound absorption.

*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions)

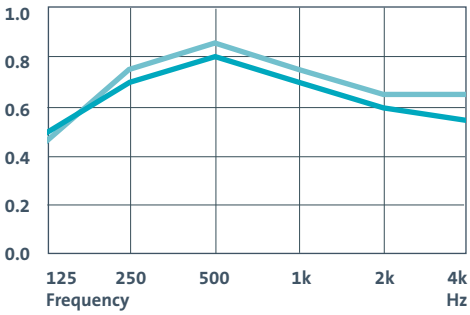
Gyptone acoustic products are tested by Danish Indoor Climate Labelling and according to the French Health and Environmental Authority's labelling scheme. Used acoustic ceiling products can be fully recycled into the production of new gypsum products.

* The effectiveness of the Activ'Air technology has been tested by the accredited Eurofins laboratory.
The test shows that Activ'Air converts up to 70 % of the formaldehyde in a controlled test environment.

Gyptone Activ'Air Quattro 41

Acoustics

Practical absorption coefficient αp

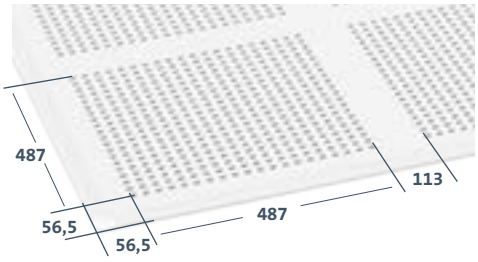


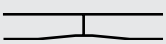
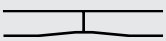
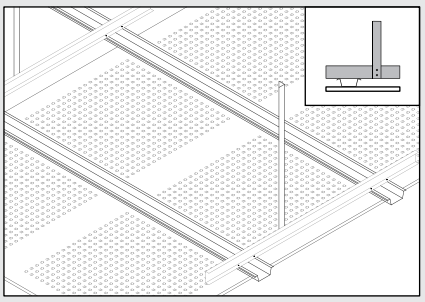
							NRC	α_W
0.40	0.75	0.85	0.75	0.65	0.65	0.75	0.70
0.50	0.70	0.80	0.70	0.60	0.55	0.70	0.65

Construction height 45mm with 50mm glass wool

Construction height 200mm

Perforation size	12 x 12mm, cc 25mm
Perforated area	16%

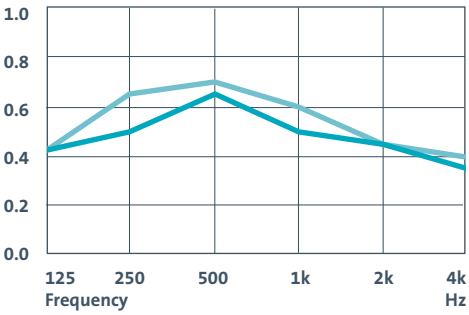


Edges	Modular size (mm)	Thickness (mm)	Mounting system	Mounting /surface treatment
Tapered Long edge  Tapered Short edge 	1200 x 2400	12.5	MF System 	Not demountable/untreated

Gyptone Activ'Air Quattro 42

Acoustics

Practical absorption coefficient αp

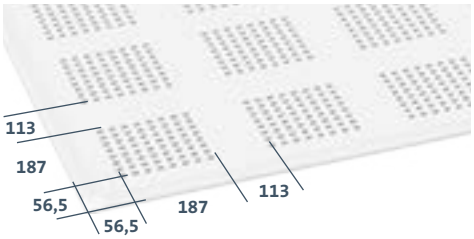


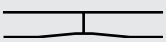
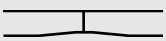
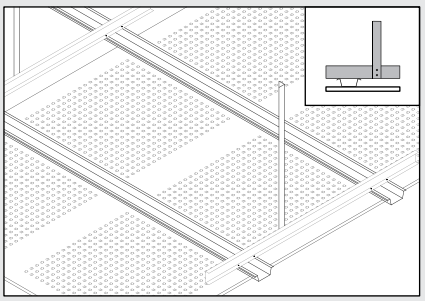
							NRC	α_W
0.40	0.65	0.70	0.60	0.45	0.40		0.60	0.40
0.45	0.60	0.65	0.50	0.45	0.35		0.55	0.50

Construction height 45mm with 50mm glass wool

Construction height 200mm

Perforation size	12 x 12mm, cc 25mm
Perforated area	10%

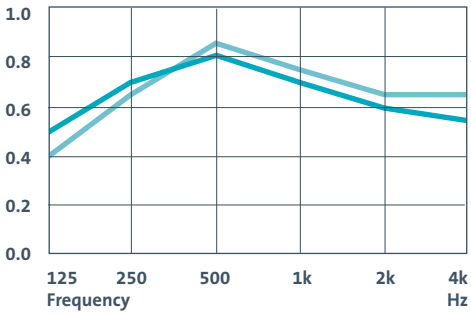


Edges	Modular size (mm)	Thickness (mm)	Mounting system	Mounting /surface treatment
Tapered Long edge  Tapered Short edge 	1200 x 2400	12.5	MF System 	Not demountable/untreated

Gyptone Activ'Air Quattro 43

Acoustics

Practical absorption coefficient αp

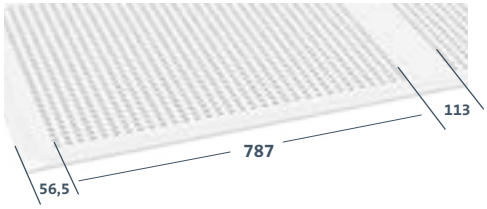


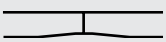
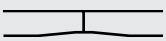
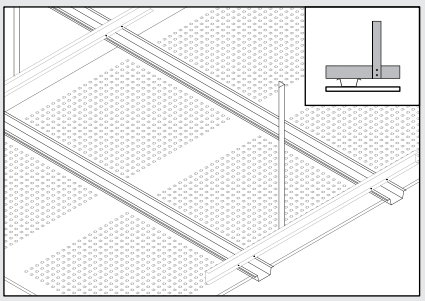
							NRC	α_W
0.40	0.75	0.85	0.75	0.65	0.65	0.75	0.70
0.50	0.70	0.80	0.70	0.60	0.55	0.70	0.65

Construction height 45mm with 50mm glass wool

Construction height 200mm

Perforation size	12 x 12mm, cc 25mm
Perforated area	18%

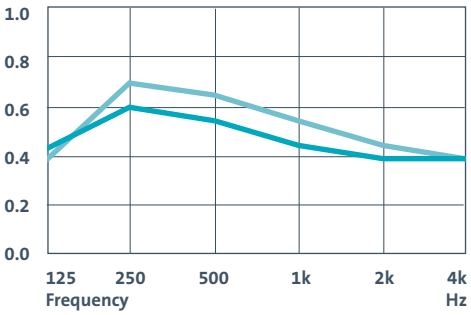


Edges	Modular size (mm)	Thickness (mm)	Mounting system	Mounting /surface treatment
Tapered Long edge  **Tapered Short edge** 	900 x 2700	12.5	MF System 	Not demountable/untreated

Gyptone Activ'Air Quattro 46

Acoustics

Practical absorption coefficient αp

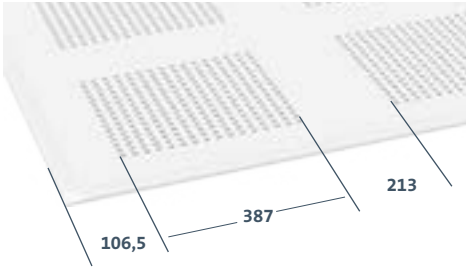


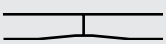
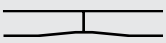
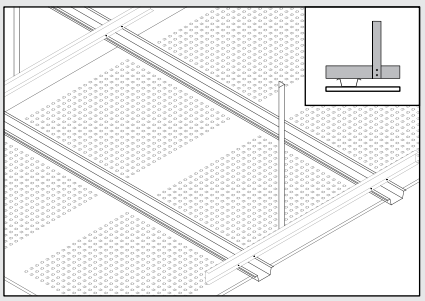
							NRC	α_W
0.40	0.70	0.65	0.55	0.45	0.40	0.60	0.40
0.45	0.60	0.55	0.45	0.40	0.40	0.55	0.45

Construction height 45mm with 50mm glass wool

Construction height 200mm

Perforation size	12 x 12mm, cc 25mm
Perforated area	10%

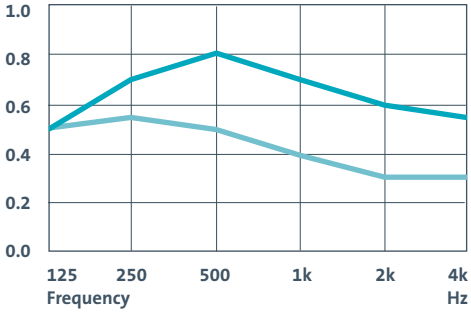


Edges	Modular size (mm)	Thickness (mm)	Mounting system	Mounting /surface treatment
Tapered Long edge  Tapered Short edge 	1200 X 2400	12.5	MF System 	Not demountable/untreated

Gyptone Activ'Air Quattro 47

Acoustics

Practical absorption coefficient α_p

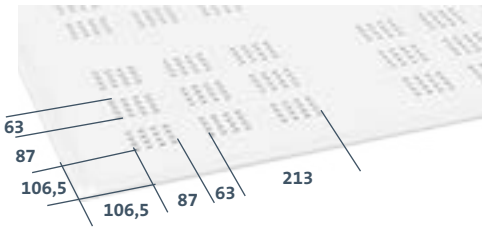


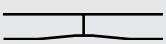
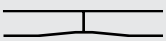
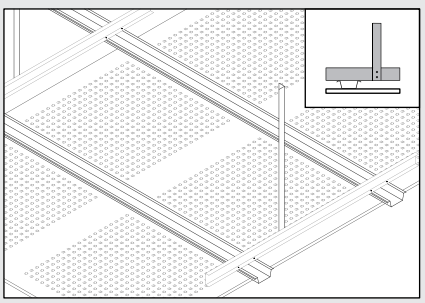
							NRC	α_w
0.50	0.55	0.50	0.40	0.30	0.30		0.45	0.40
0.50	0.70	0.80	0.70	0.60	0.55		0.40	0.35

Construction height 45mm with 50mm glass wool

Construction height 200mm

Perforation size	12 x 12mm, cc 25mm
Perforated area	6%

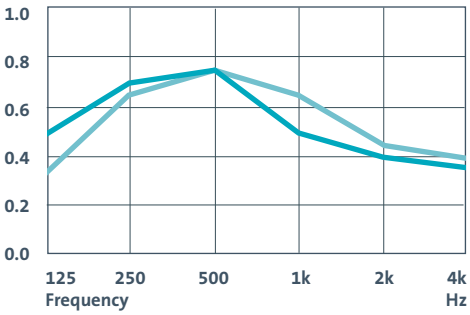


Edges	Modular size (mm)	Thickness (mm)	Mounting system	Mounting /surface treatment
Tapered Long edge  **Tapered Short edge** 	1200 X 2400	12.5	MF System 	Not demountable/untreated

Gyptone Activ'Air Line 6

Acoustics

Practical absorption coefficient αp

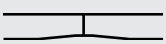
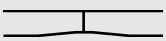
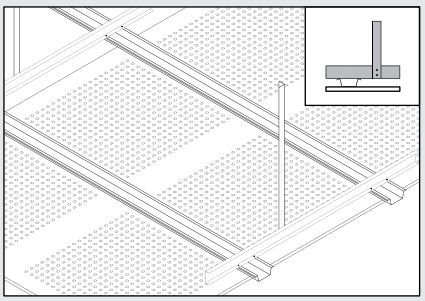


							NRC	α_W
0.35	0.65	0.75	0.65	0.45	0.40		0.65	0.50
0.50	0.70	0.75	0.50	0.40	0.35		0.60	0.45

Construction height 45mm with 50mm glass wool

Construction height 200mm

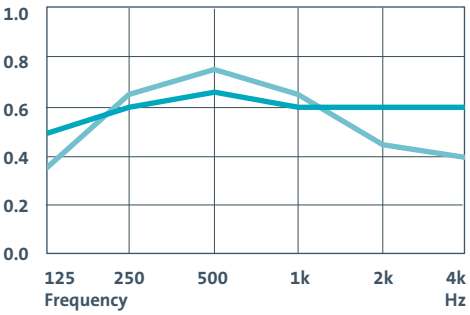
Perforation size	6 x 80mm
Perforated area	13%

Edges	Modular size (mm)	Thickness (mm)	Mounting system	Mounting /surface treatment
Tapered Long edge  Tapered Short edge 	1200 X 2400	12.5	MF System 	Not demountable/untreated

Gyptone Activ'Air Line 5

Acoustics

Practical absorption coefficient αp

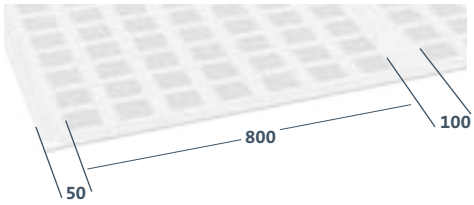


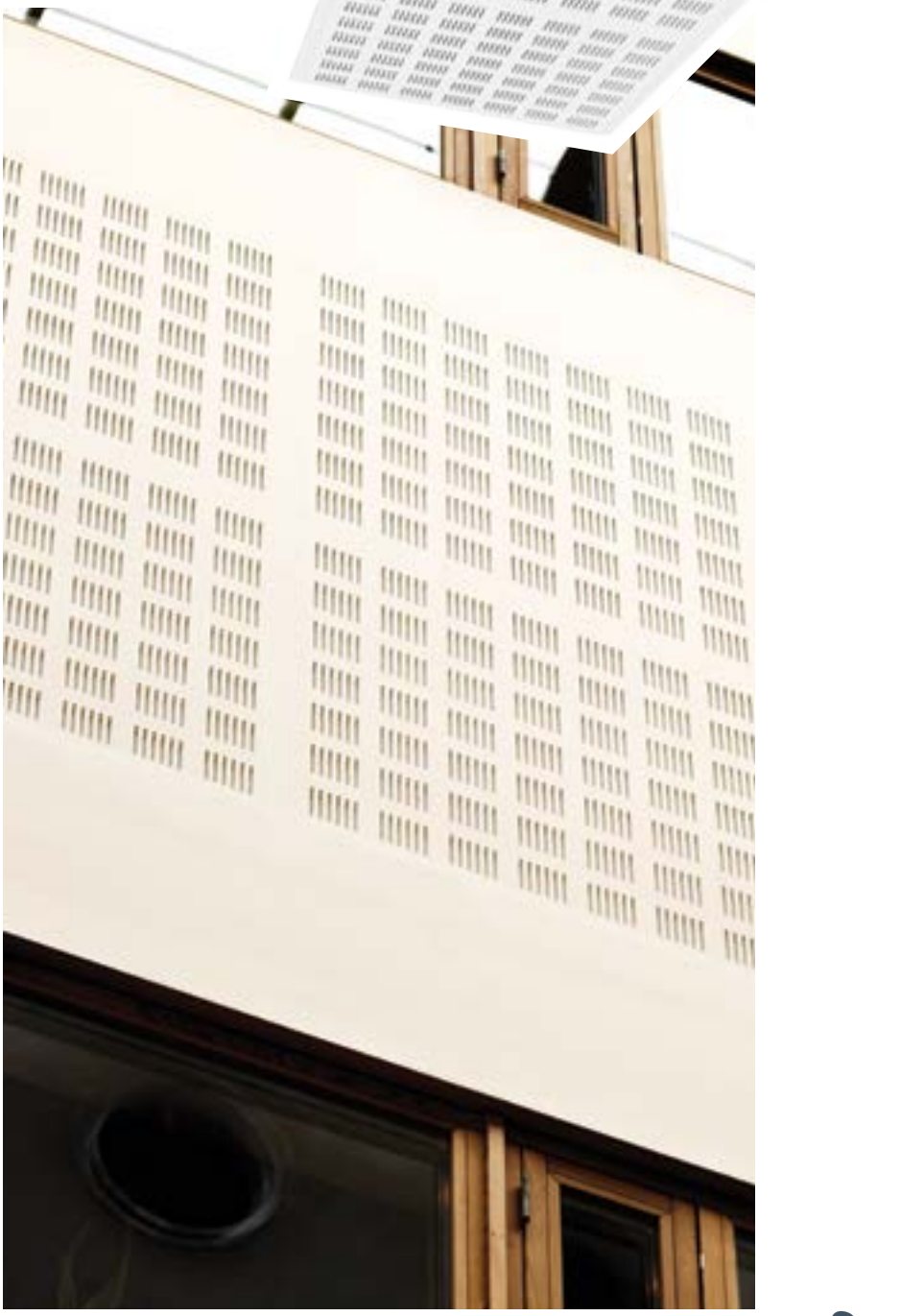
							NRC	α_W
0.35	0.65	0.75	0.65	0.45	0.40	0.65	0.50
0.50	0.70	0.75	0.50	0.40	0.35	0.60	0.45

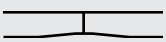
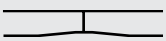
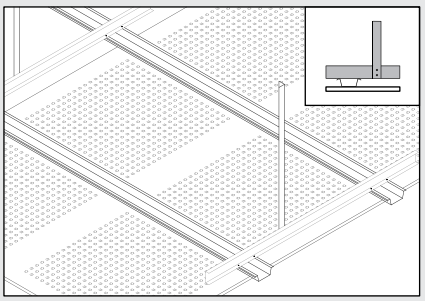
Construction height 45mm with 50mm glass wool

Construction height 200mm

Perforation size	6 x 80mm
Perforated area	18%



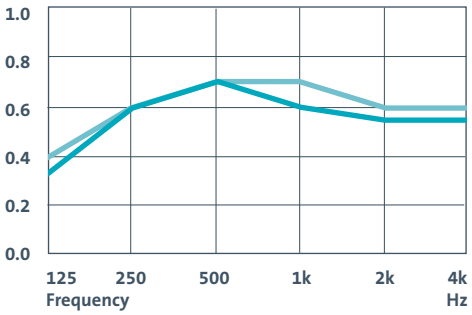


Edges	Modular size (mm)	Thickness (mm)	Mounting system	Mounting /surface treatment
Tapered Long edge  **Tapered Short edge** 	900 X 2700	12.5	MF System 	Not demountable/untreated

Gyptone Activ'Air Sixto 63

Acoustics

Practical absorption coefficient αp

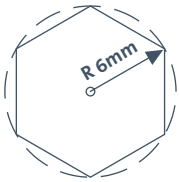


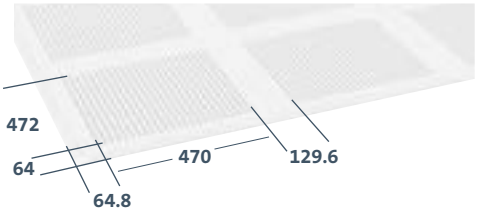
							NRC	α_w
0.40	0.60	0.70	0.70	0.60	0.60		0.65	0.70
0.35	0.60	0.70	0.60	0.55	0.55		0.60	0.60

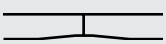
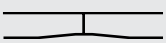
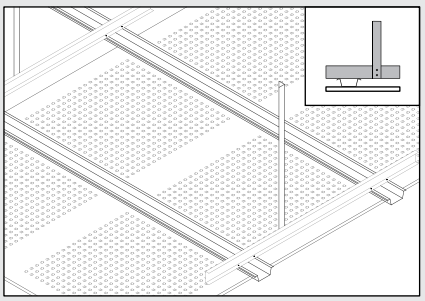
Construction height 45mm with 50mm glass wool

Construction height 200mm

Perforation size	12mm, cc 20mm
Perforated area	15%



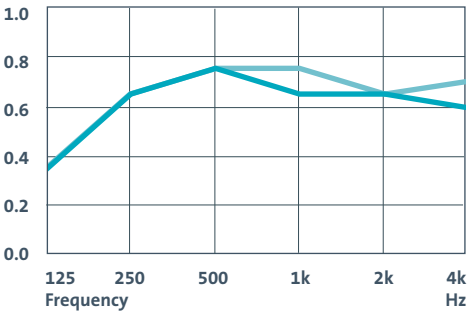


Edges	Modular size (mm)	Thickness (mm)	Mounting system	Mounting /surface treatment
Tapered Long edge  Tapered Short edge 	1200 X 2400	12.5	MF System 	Not demountable/untreated

Gyptone Activ'Air Sixto 65

Acoustics

Practical absorption coefficient αp

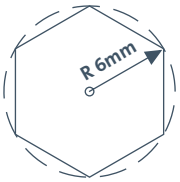


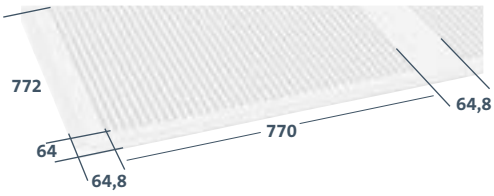
							NRC	α_W
0.35	0.65	0.75	0.75	0.65	0.70		0.70	0.75
0.35	0.65	0.75	0.65	0.65	0.60		0.65	0.70

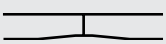
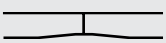
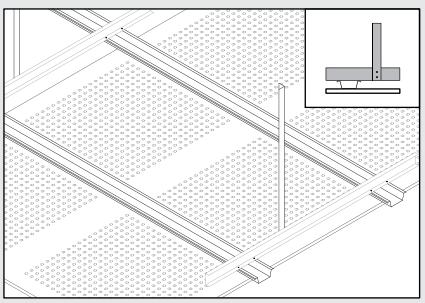
Construction height 45mm with 50mm glass wool

Construction height 200mm

Perforation size	12mm, cc 20mm
Perforated area	17.6%





Edges	Modular size (mm)	Thickness (mm)	Mounting system	Mounting /surface treatment
Tapered Long edge  **Tapered Short edge** 	900 X 2700	12.5	MF System 	Not demountable/untreated

Design and technical data

Product description
Gyptone Boards are gypsum based acoustic ceiling. The Gyptone Boards are reinforced with glassfibre and are backed with an acoustic tissue.

VOC reducing properties.
Gyptone Activ'Air is designed to convert VOC emissions from other building materials such as paint, furniture, carpets etc. The patented technology converts VOCs, like formaldehyde, into non-harmful inert com pounds. Activ'Air can reduce formaldehyde room concentrations up to 70 %.*

Fixing
Gyptone Boards are suitable for direct or suspended screw fixing and the system is not demountable.

Surface
Gyptone board is supplied unpainted. The surface finish is done on site after jointing is completed. Ceilings must be painted with a short-haired roller. The boards must not be spray-painted as this considerably impairs sound absorption.

Fire
A2-s1, d0.

Dimensional stability
Gyptone boards should be used in areas with a relative humidity which does not constantly exceed 70%.

Weight
Approx. 8 kg/m².

Cleaning
Depends on the surface treatment.

Maintenance
Repainting must be done with a short-haired roller. The boards must not be spray-painted, as this impairs sound absorption.

*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions)

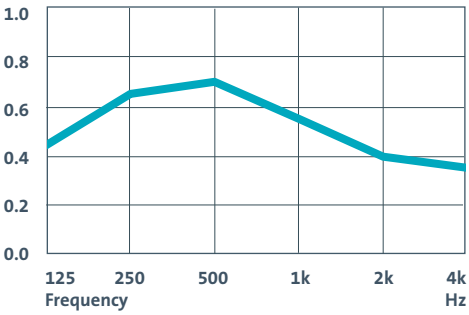
Gyptone acoustic products are tested by Danish Indoor Climate Labelling and according to the French Health and Environmental Authority's labelling scheme. Used acoustic ceiling products can be fully recycled into the production of new gypsum products.

* The effectiveness of the Activ'Air technology has been tested by the accredited Eurofins laboratory.
The test shows that Activ'Air decomposes up to 70 % of the formaldehyde in a controlled test environment.

Gyptone Activ'Air Curve Line 6

Acoustics

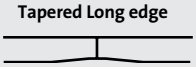
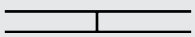
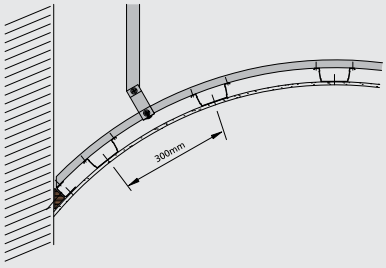
Practical absorption coefficient αp



							NRC	α_W
0.45	0.65	0.70	0.55	0.40	0.35		0.60	0.45

Construction height 200mm

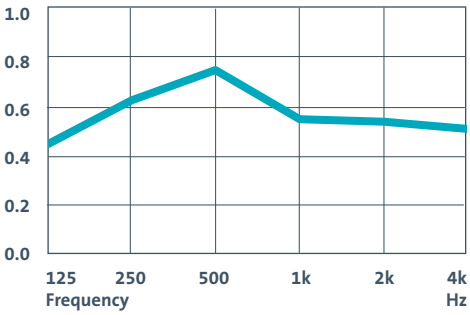
Perforation size 6 x 80mm

Edges	Modular size (mm)	Thickness (mm)	Mounting systems	Mounting/ surface treatment
Tapered Long edge  **Short edge** 	1200 x 2400	6.5	MF system 	Not demountable/ untreated

Gyptone Activ'Air Curve Sixto 63

Acoustics

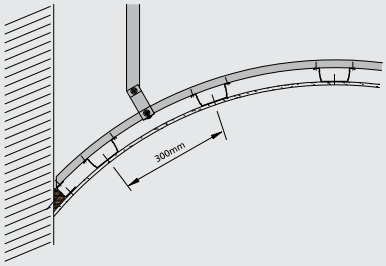
Practical absorption coefficient αp



							NRC	α_w
0.40	0.65	0.70	0.60	0.55	0.45		0.65	0.60

Construction height 200mm

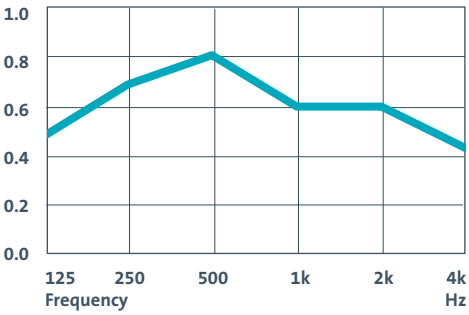
Perforation size 12mm hexagonal

Edges	Modular size (mm)	Thickness (mm)	Mounting systems	Mounting/ surface treatment
Tapered Long edge  Short edge 	1200 x 2400	6.5	MF system 	Not demountable/ untreated

Gyptone Activ'Air Curve Quattro 41

Acoustics

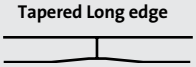
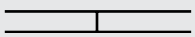
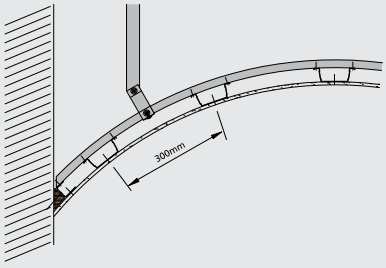
Practical absorption coefficient αp



						NRC	α_W
0.45	0.70	0.75	0.65	0.60	0.40	0.70	0.60

Construction height 200mm

Perforation size 12 x 12mm

Edges	Modular size (mm)	Thickness (mm)	Mounting systems	Mounting/ surface treatment
Tapered Long edge  Short edge 	1200 x 2400	6.5	MF system 	Not demountable/ untreated

Design and technical data

Product description
Gyptone Curve is sound absorbing and based on a 6.5 mm special gypsum board with bendable properties. The perforations are punched with great precision. The back side of the perforated board is fitted with acoustic tissue.

Mounting
Gyptone Curve is screw mounted to curved profiles and the boards are not demountable. Special screws for hard gypsum boards must be used.

Surface
Gyptone Curve is supplied with untreated surfaced and edge B1 on the long edges. The surface treatment is carried out on site after filling is complete. Boards are painted with a roller. They may not be spray painted, as this significantly impairs the sound absorption.

Fire
B-s1, d0.

Dimensional stability
Gyptone Curve should be mounted and used in rooms with a relative humidity that does not constantly exceed 70%.

Bending ability
Gyptone Curve can be dry bent down to a radius of 2.2 m.

Weight
Approx. 6.5 kg/m².

Cleaning
Depends on the surface treatment.

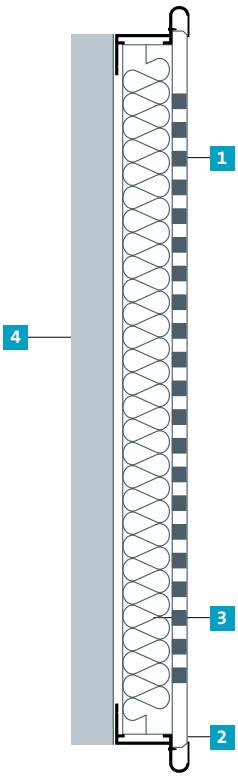
Maintenance
Painting must be done with a roller. Boards may not be spray painted, as this impairs the sound absorption.

*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions)

Gyptone acoustic products are tested by Danish Indoor Climate Labelling and according to the French Health and Environmental Authority's labelling scheme. Used acoustic ceiling products can be fully recycled into the production of new gypsum products.

* The effectiveness of the Activ'Air technology has been tested by the accredited Eurofins laboratory.
The test shows that Activ'Air converts up to 70 % of the formaldehyde in a controlled test environment.

Gyptone INSTANT acoustic panel for wall



1 Gyptone perforated tile
2 Painted alu-frame
3 Glass wool – 50mm thickness
4 Existing construction

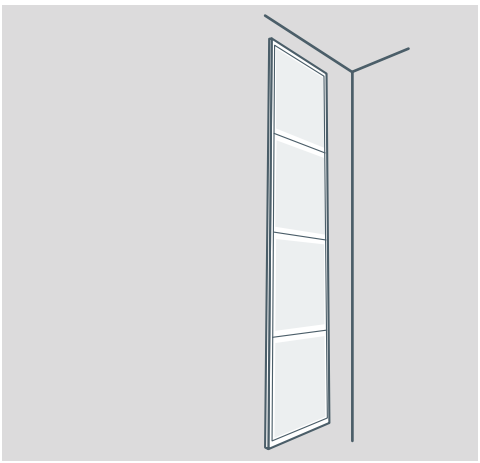
Acoustics

Absorption values

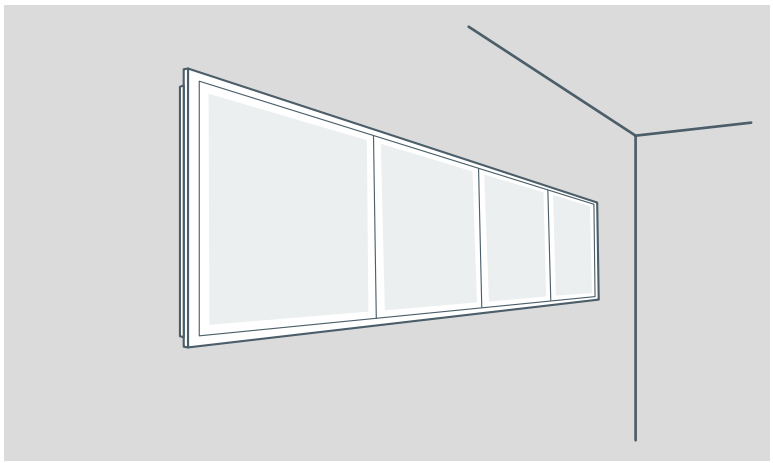
Gyptone wall absorbers installed on a 45mm steel back with 50mm of underlaying glass wool	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
Gyptone Sixto 60, Edge B	0,35	0,65	0,85	0,85	0,75	0,75	0.80
Gyptone Line 4, Edge B	0,30	0,65	0,90	0,85	0,65	0,60	0.75
Gyptone Quattro 20, Edge B	0,25	0,65	1,00	0,95	0,65	0,65	0.80
Gyptone Point 11, Edge B	0,30	0,65	1,00	0,85	0,60	0,55	0.80

Panel Sizes : 600 x 2400mm and 600 x 3600mm

Vertical mounting



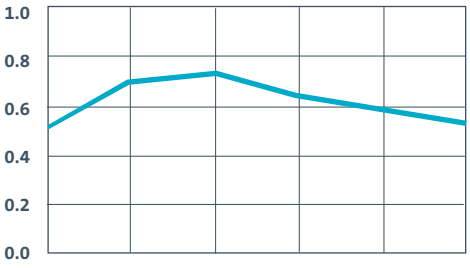
Horizontal mounting



Gyptone Plank

Acoustics

Practical absorption coefficient αp
(Gyptone Plank, Point 15)



							NRC	α_w
0.45	0.65	0.75	0.65	0.60	0.55		0.65	0.65

Construction height 200mm

Other Plank products

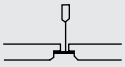
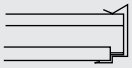
Line 8

125	250	500	1000	2000	4000	NRC	α_w
0.40	0.70	0.80	0.65	0.60	0.50	0.70	0.65

Quattro 55

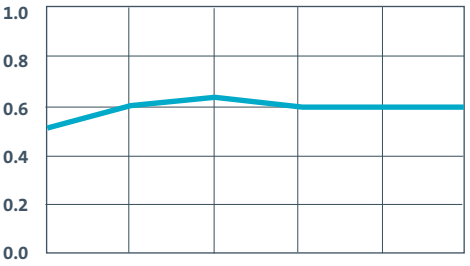
125	250	500	1000	2000	4000	NRC	α_w
0.45	0.70	0.80	0.70	0.65	0.55	0.70	0.70

Base 33

Edges	Modular size (mm)	Thickness (mm)	Mounting systems	Fixing/ surface treatment
E15 Long edge 	300 x 1800mm 300 x 2100mm 300 x 2400mm	12.5	Exposed suspended T-15 grid system Long edge  Short Edge 	Demountable/ painted

Acoustics

Practical absorption coefficient αp
(Gyptone Trap, Line 4)



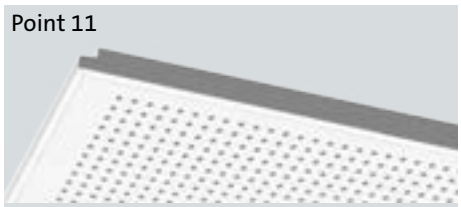
							NRC	α_w
	0.40	0.70	0.80	0.65	0.60	0.55	0.70	0.65

Construction height 200mm

Other Trap products

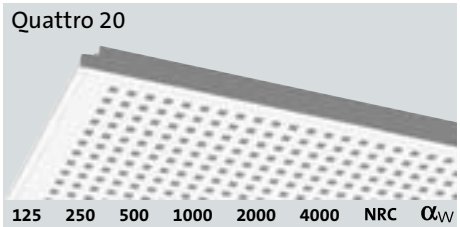
Base

Point 11



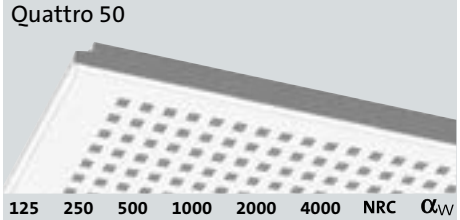
125	250	500	1000	2000	4000	NRC	α_w
0.45	0.65	0.75	0.65	0.60	0.55	0.65	0.65

Quattro 20

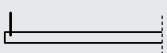
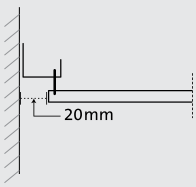
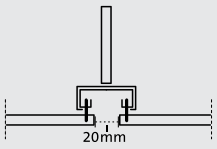


125	250	500	1000	2000	4000	NRC	α_w
0.40	0.70	0.80	0.70	0.70	0.60	0.70	0.70

Quattro 50



125	250	500	1000	2000	4000	NRC	α_w
0.45	0.70	0.80	0.70	0.65	0.55	0.70	0.70

Edges	Modular size (mm)	Thickness (mm)	Mounting systems		Fixing/ surface treatment
	580x1160mm 580x1160-1800mm	12.5			Demountable/ painted

Weight: 7kg for perforated Trap elements, 8kg for non-perforated Trap Elements.

Gyptone Safety Datasheet

1. IDENTIFICATION OF THE SUBSTANCES / PREPARATION AND COMPANY

Gyptone tiles and boards

Supplier Saint-Gobain Gyproc Emirates Industries LLC
ICAD 1, Mussafah
Abu Dhabi
United Arab Emirates
P.O. Box 38983
Free Phone: +971 800 GYPROC (497762)
Email: gyproc-me@saint-gobain.com

Recommended uses: Perforated gypsum acoustic tiles and boards for ceiling and wall applications.

2. Hazards identification

The product is not classified as hazardous under the CLP regulations. Dust from sawing or sanding may irritate the respiratory system, skin and eyes.

3. Composition / Information on ingredients

Calcium sulphate dihydrate. 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. The tiles and boards may be perforated or textured. Gyptone tiles and boards include an acoustic tissue laminated to the back face.

4. First aid measures

Eye contact
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 - Wear eye / face protection.

Skin contact
S28 - After contact with skin, wash immediately with plenty of soap and water.
S36 - Wear suitable protective clothing.

Ingestion
S62 - If swallowed, do not induce vomiting, seek medical advice immediately and show this document.
S64 - If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation
S51 - Only use in well ventilated areas.
S63 - In case of accident by inhalation, remove casualty to fresh air and keep at rest.

General
Get medical attention if any symptoms persist.

5. Fire fighting measures

The product does not pose a fire hazard. However, some packaging materials or facing may burn.

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

6. Accidental release measures

Not applicable

7. Handling and storage

Use - Minimise and control dust when sawing or sanding tiles and boards in confined spaces.

Manual handling - When manually handling tiles and boards or packs, use correct manual handling techniques according to size, thickness and density.

Storage conditions - Store in dry conditions. To maintain stability place pallets on firm level ground and ensure that stacks are both level and vertical.

8. Exposure control / personal protection

Workplace exposure limit

Substance	Total Inhalable	Respirable
Plaster	10 mg/m³ 8 hr TWA	4 mg/m³ 3 hr TWA
Quartz (silica)	-	0.1 mg/m³ 8 hr TWA
Man Made Mineral Fibers (MMMF)	5 mg/m³ 8 hr TWA (gravimetric method)	-

Personal protection

Respiratory
S51 - Use only in well ventilated areas.
S39 - Wear eye / face protection.
Face masks to EN 149 FFP2.

Skin
S36 - Wear suitable protective clothing.

Eye
S39 - Wear eye / face protection.
Eye protection to BS EN 166.

9. Physical and chemical properties

Appearance: Perforated gypsum tiles and boards

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 considerations

Waste from gypsum plasterboard products is normally classified as 'non-hazardous, non-inert', is fully recyclable and is classified as EWC 08 02 17.

If you would like to recycle Gypsum plasterboard waste, we at Gyproc offer Gypsum recycling services and are happy to take segregated waste from your site. Please refer to the Gyproc® Plasterboard Recycling brochure. Always seek advice of a trained and competent professional. Off-cuts, where appropriate, can be used as noggings to reduce or remove recycling requirement. Alternatievely, Plasterboard waste can be disposed off at an authorized landfill site in accordance with the local waste management regulations.

14. Transport information

Not classified as hazardous for transportation.

15. Regulatory information

Not classified under the CLP regulations.

16. Other information

Control of Substances Hazardous to Health Regulations (COSHH)
The Manual Handling Operations Regulations
HSE Guidance Note EH40: Workplace Exposure Limits
Gypsum Wastes – Environment Agency Information Sheet
Gyproc Middle East **WHITE BOOK**
Gyproc Middle East website: **www.gyproc.ae**

Note to user: This safety datasheet 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 White Book, available to download from www.gyproc.ae

Introducing Rigitone

Rigitone is a modern acoustic system offering optimum solutions for acoustic ceilings and walls which perform two key functions. On the one hand, the broad spectrum of acoustic boards offers virtually unlimited design scope for creating highly attractive rooms and buildings.

On the other hand, the acoustic quality of the boards is ideal for planning and designing optimum room acoustics. Rigitone acoustic system meets the most demanding requirements in terms of material properties, variety of shapes and acoustic results.

Jointless and continuous, perfect solutions are available for all applications in many appealing designs, whether used on ceilings or wall linings. In combination with non-perforated boards, Rigitone acoustic ceilings offer unlimited options for customised design.

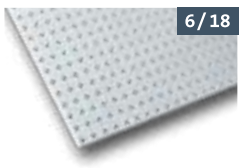
The Rigitone acoustic ceiling range combines functionality and aesthetics in the modern design of walls and ceilings. Integrating lighting, ventilation systems, loudspeakers, etc. is straightforward and simple.

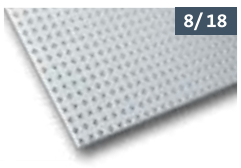
Rigitone acoustic boards also have a long lifetime and can be renovated at any time without altering the acoustic properties of the ceilings.

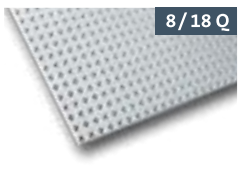
The comprehensive Rigitone range from Gyproc comprises high-quality acoustic perforated boards made from gypsum, which is a natural raw material. This range enables the creation of jointless ceiling systems with harmonious and architecturally appealing ceiling patterns, and outstanding acoustic properties.

Rigitone boards are available with an acoustic tissue in black or white.

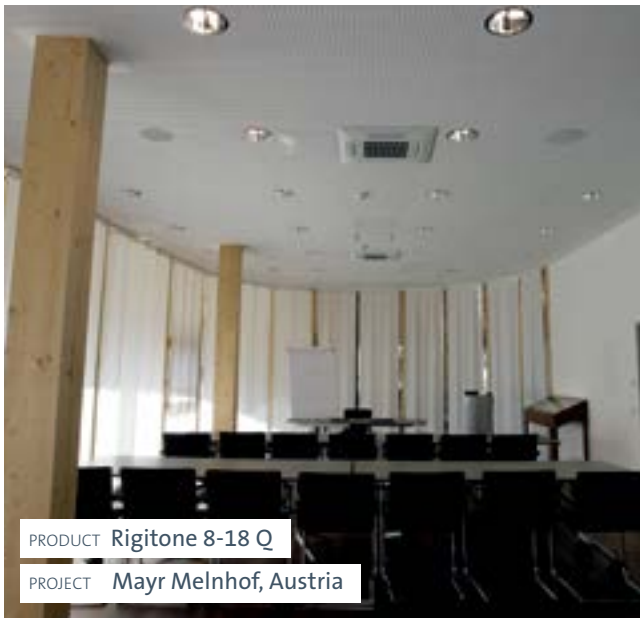
Available patterns of perforation



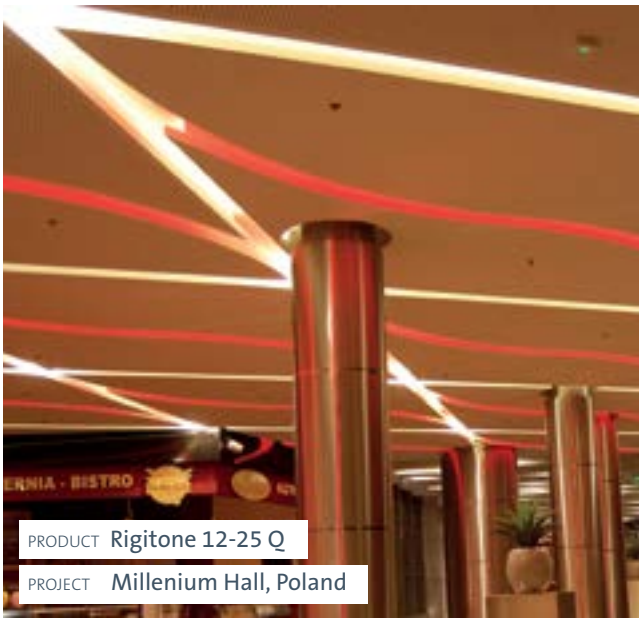




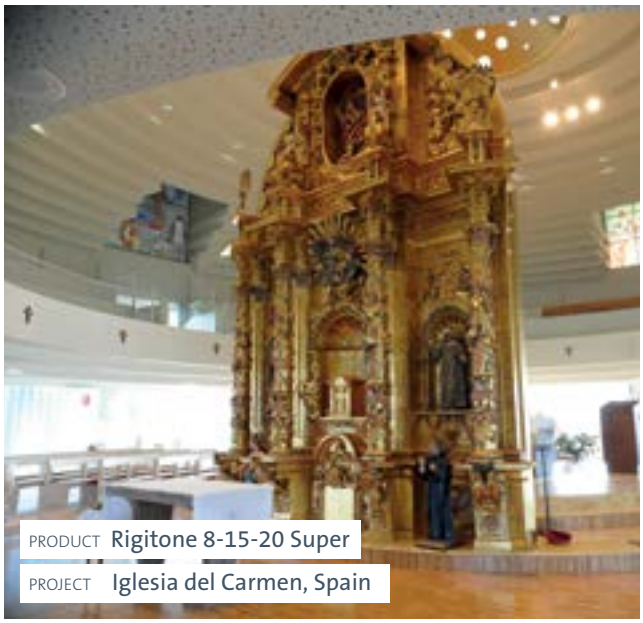
Rigitone Project References



PRODUCT Rigitone 8-18 Q
PROJECT Mayr Melnhof, Austria

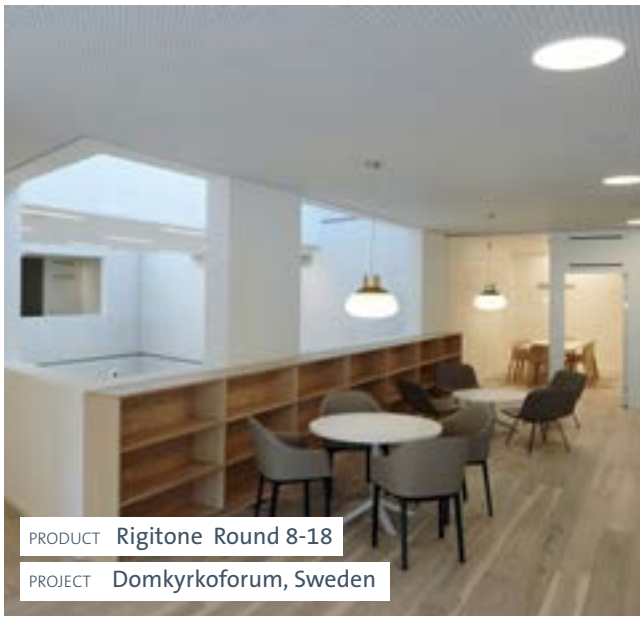


PRODUCT Rigitone 12-25 Q
PROJECT Millenium Hall, Poland



PRODUCT Rigitone 8-15-20 Super
PROJECT Iglesia del Carmen, Spain

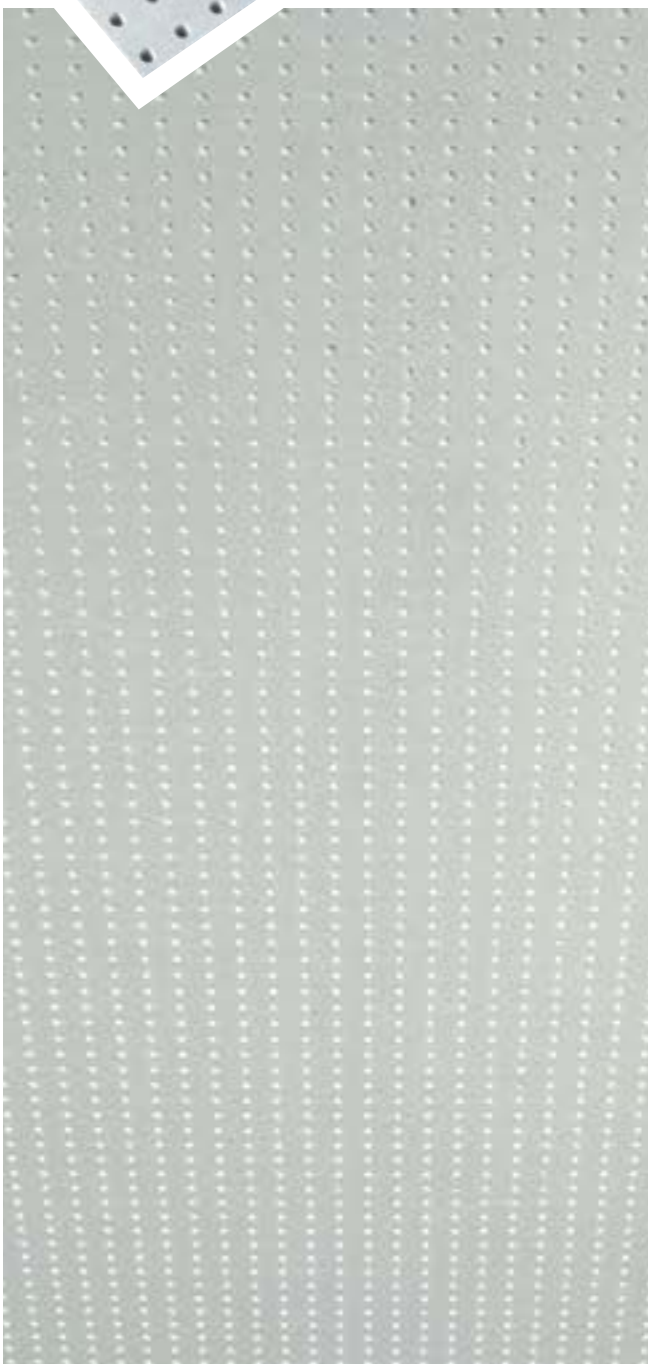
PRODUCT Rigitone 12-20-35
PROJECT GEMS International School, UAE



PRODUCT Rigitone Round 8-18
PROJECT Domkyrkoforum, Sweden

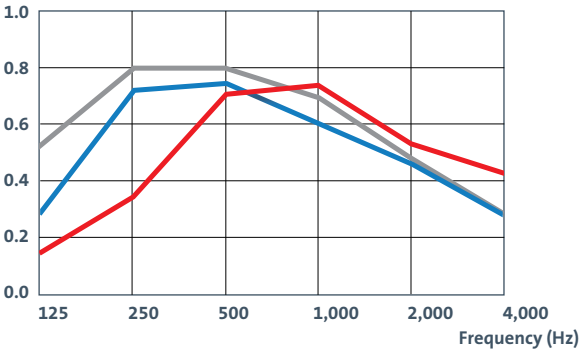
PRODUCT Rigitone 8-15-20 Super
PROJECT Creches in Munich, Germany

Rigitone 6/18



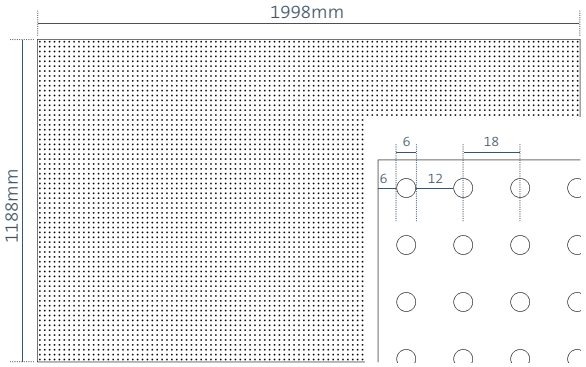
Acoustics

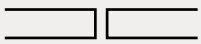
Practical absorption coefficient αp



							NRC	α_w
Plenum depth 50mm	0.15	0.35	0.70	0.75	0.55	0.45	0.60	0.55
Plenum depth 200mm	0.30	0.70	0.75	0.60	0.45	0.30	0.65	0.45
Plenum depth 200mm, ISOVER Eco 75mm glass mineral wool	0.55	0.80	0.80	0.70	0.50	0.30	0.70	0.50

Perforation type	Regular round perforation
Perforation size	Dia. 6mm, cc 18mm
Perforated area	8.7%

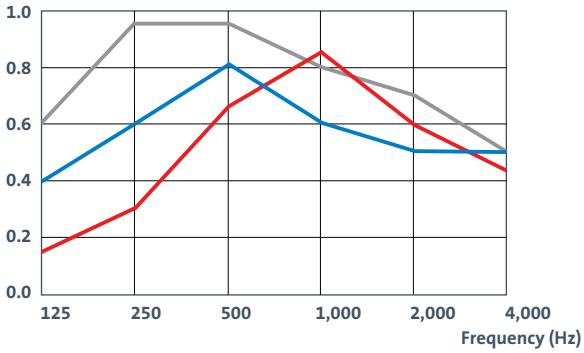


Edges	Modular size (mm)	Thickness (mm)	Weight (kg/m²)	Centre-to-centre distance between support profiles (mm)	Reaction to fire in accordance with DIN EN 13501
	1188 x 1998	12.5	approx. 10	333	A2-s1, d0 (C.4)

Rigitone 8/18

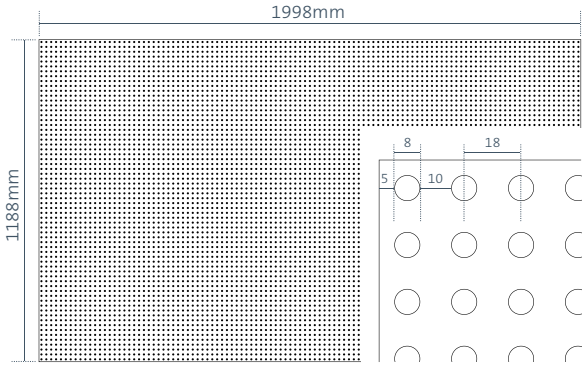
Acoustics

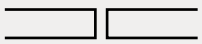
Practical absorption coefficient αp



							NRC	α_w
Plenum depth 50mm	0.15	0.30	0.65	0.85	0.60	0.45	0.60	0.55
Plenum depth 200mm	0.40	0.60	0.80	0.60	0.50	0.50	0.65	0.60
Plenum depth 200mm, ISOVER Eco 75mm glass mineral wool	0.60	0.95	0.95	0.80	0.70	0.50	0.85	0.70

Perforation type	Regular round perforation
Perforation size	Dia. 8mm, cc 18mm
Perforated area	15.5%

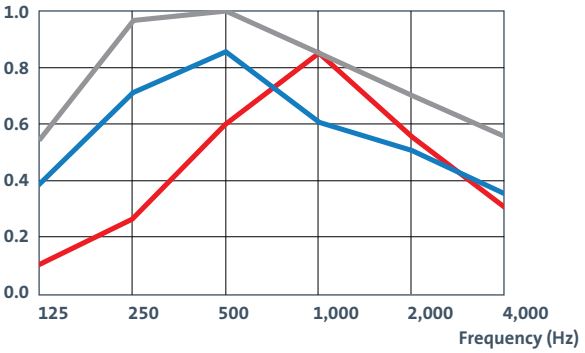


Edges	Modular size (mm)	Thickness (mm)	Weight (kg/m²)	Centre-to-centre distance between support profiles (mm)	Reaction to fire in accordance with DIN EN 13501
	1188 x 1998	12.5	approx. 9.5	333	A2-s1, d0 (C.4)

Rigitone 12-20/66

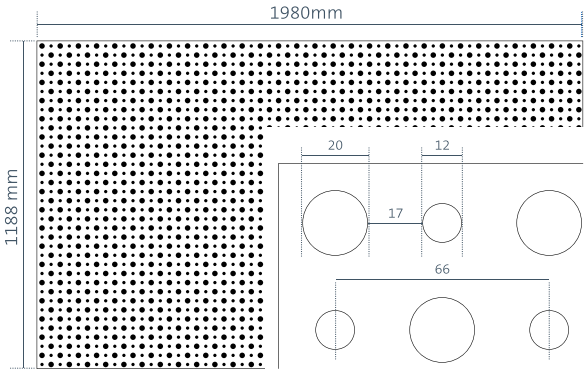
Acoustics

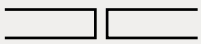
Practical absorption coefficient αp



							NRC	α_w
Plenum depth 50mm								
0.10	0.25	0.60	0.85	0.55	0.30		0.55	0.45
Plenum depth 200mm								
0.40	0.70	0.85	0.60	0.50	0.35		0.65	0.50
Plenum depth 200mm, ISOVER Eco 75mm glass mineral wool								
0.55	0.95	1.00	0.85	0.70	0.55		0.90	0.70

Perforation type	Regularly staggered round perforation
Perforation size	Dia 12mm, Dia. 20mm, cc 66mm
Perforated area	19.6%

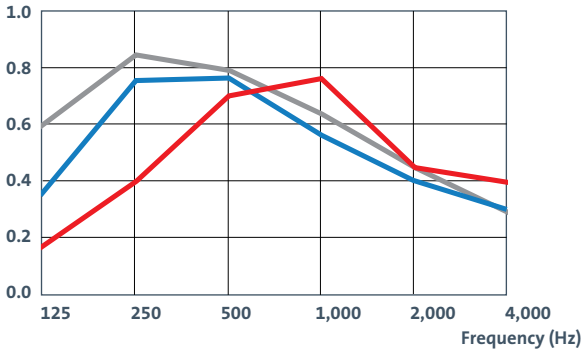


Edges	Modular size (mm)	Thickness (mm)	Weight (kg/m²)	Centre-to-centre distance between support profiles (mm)	Reaction to fire in accordance with DIN EN 13501
	1188 x 1980	12.5	approx. 9.0	330	A2-s1, d0 (C.4)

Rigitone 8-15-20 Super

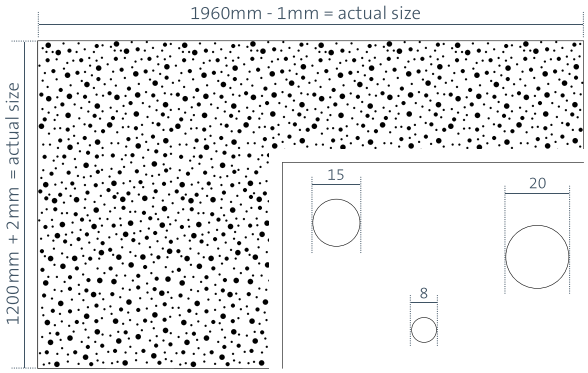
Acoustics

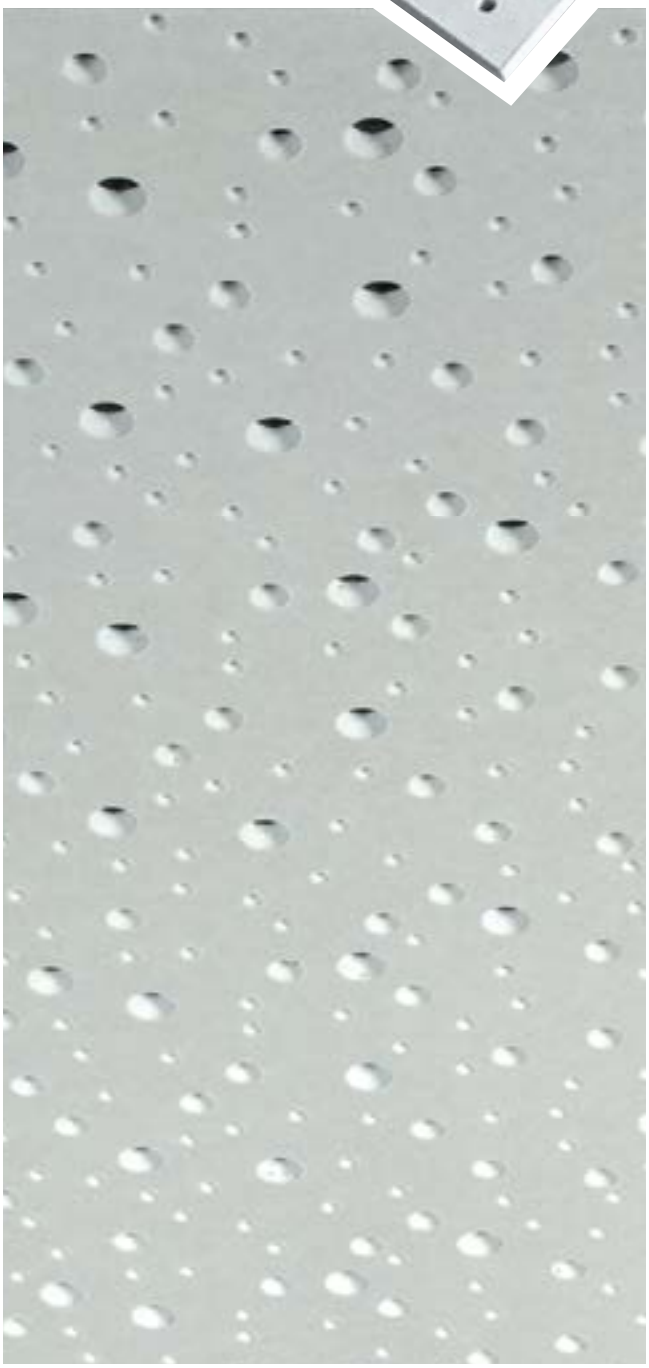
Practical absorption coefficient αp



							NRC	α_w
Plenum depth 50mm								
0.15	0.40	0.70	0.75	0.45	0.40		0.60	0.50
Plenum depth 200mm								
0.35	0.75	0.75	0.55	0.40	0.30		0.60	0.45
Plenum depth 200mm, ISOVER Eco 75mm glass mineral wool								
0.60	0.85	0.80	0.65	0.45	0.30		0.70	0.45

Perforation type	Irregular scattered round perforation
Perforation size	Dia. 8mm, Dia. 15mm, Dia. 20mm
Perforated area	10.0%



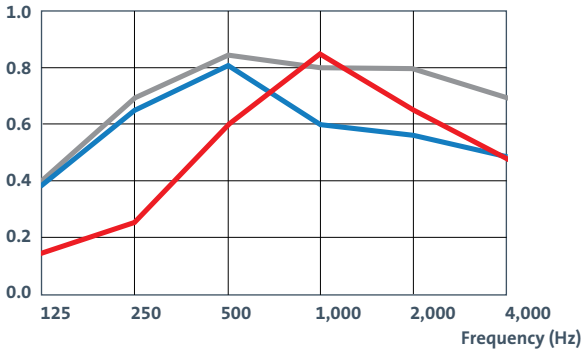


Edges	Modular size (mm)	Thickness (mm)	Weight (kg/m²)	Centre-to-centre distance between support profiles (mm)	Reaction to fire in accordance with DIN EN 13501
	1200 x 1960	12.5	approx. 10	327	A2-s1, d0 (C.4)

Rigitone 8/18Q

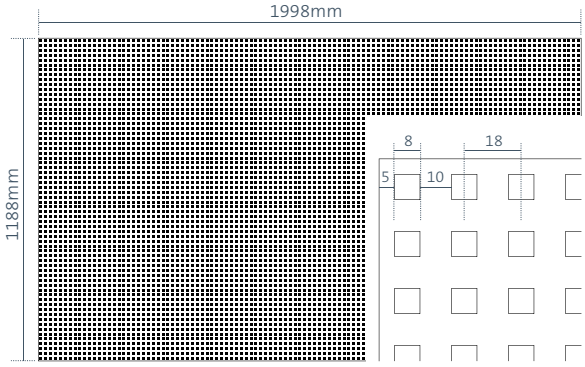
Acoustics

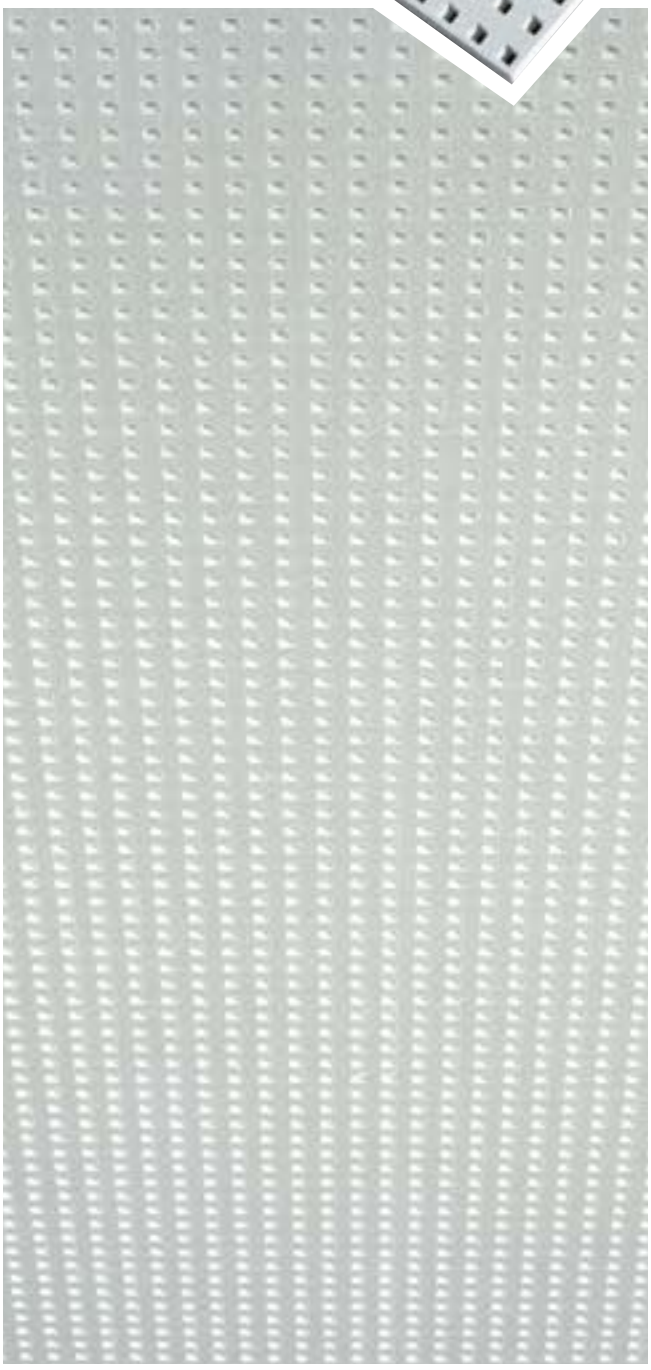
Practical absorption coefficient αp

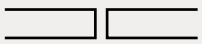


							NRC	α_w
Plenum depth 50mm	0.15	0.25	0.60	0.85	0.65	0.50	0.60	0.55
Plenum depth 200mm	0.40	0.65	0.80	0.60	0.55	0.50	0.65	0.60
Plenum depth 200mm, ISOVER Eco 75mm glass mineral wool	0.40	0.70	0.85	0.80	0.80	0.70	0.80	0.80

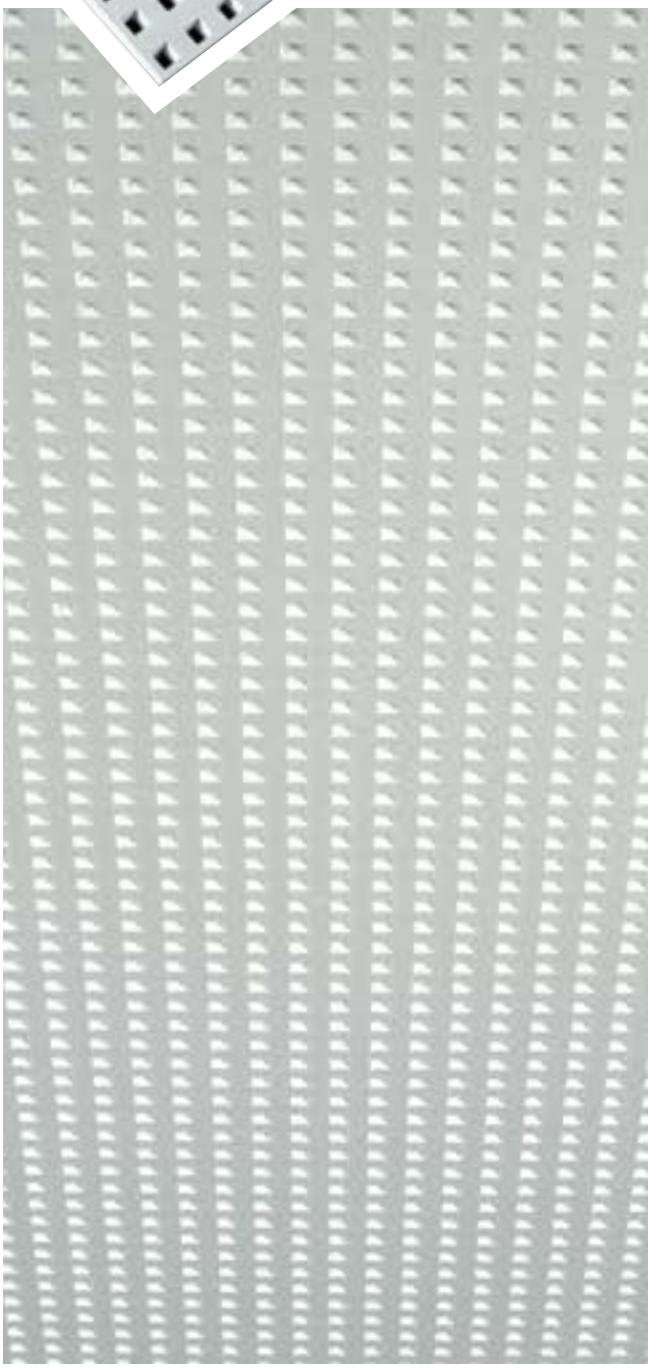
Perforation type	Regular square perforation
Perforation size	8 x 8 mm, cc 18mm
Perforated area	19.8%





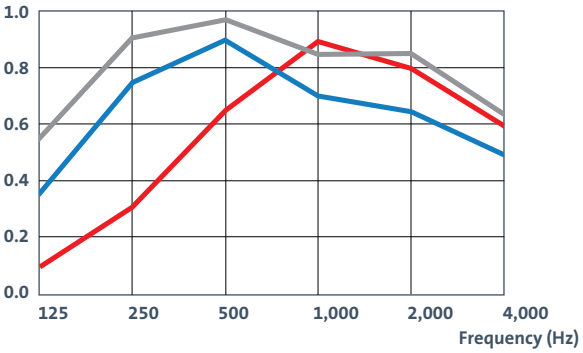
Edges	Modular size (mm)	Thickness (mm)	Weight (kg/m²)	Centre-to-centre distance between support profiles (mm)	Reaction to fire in accordance with DIN EN 13501
	1188 x 1998	12.5	approx. 9.0	333	A2-s1, d0 (C.4)

Rigitone 12/25Q



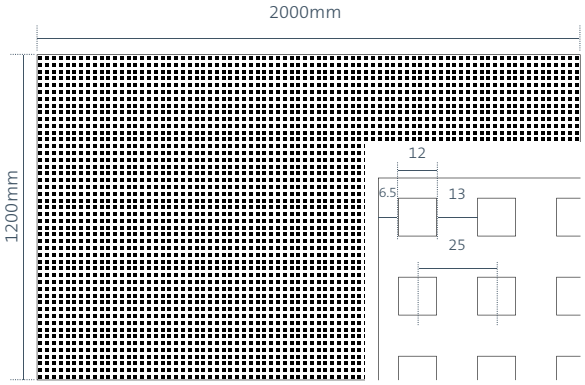
Acoustics

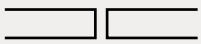
Practical absorption coefficient αp



							NRC	α_W
Plenum depth 50mm								
0.10	0.30	0.65	0.90	0.80	0.60		0.65	0.60
Plenum depth 200mm								
0.35	0.75	0.90	0.70	0.65	0.50		0.75	0.65
Plenum depth 200mm, ISOVER Eco 75mm glass mineral wool								
0.55	0.90	0.95	0.85	0.85	0.65		0.90	0.85

Perforation type	Regular square perforation
Perforation size	12 x 12mm, cc 25mm
Perforated area	23.0%



Edges	Modular size (mm)	Thickness (mm)	Weight (kg/m²)	Centre-to-centre distance between support profiles (mm)	Reaction to fire in accordance with DIN EN 13501
	1200 x 2000	12.5	approx. 8.5	333	A2-s1, d0 (C.4)

Rigitone sports hall ceilings

When planning modern sports facilities, both functional and aesthetic requirements must be taken into consideration. "Impact resistance" is also a criterion here. Rigitone ceilings can be supplied in "impact-resistant" versions in accordance with DIN 18032 Part 3 – this corresponds to test class A1 in DIN EN 13964 Annex D. Depending on the perforation pattern, the centre-to-centre distances between support profiles given in the table must be observed.

Substructure

Reducing the centre-to-centre distance between the support profiles ensures impact resistance.

Fastening

Gyproc Drywall screws should be attached at intervals of 170mm.

Centre-to-centre distance between support profiles as per the perforation pattern

Product	Profile spacing		
	200 mm	250 mm	320 mm
Rigitone 6/18		X	
Rigitone 8/18		X	
Rigitone 12-20/66		X	
Rigitone 8-15-20 Super			X
Rigitone 8/18 Q	X		
Rigitone 12/25 Q	X		

Rigitone Safety Datasheet

1. IDENTIFICATION OF THE SUBSTANCES / PREPARATION AND COMPANY

Rigitone boards

Supplier Saint-Gobain Gyproc Emirates Industries LLC
ICAD 1, Mussafah
Abu Dhabi
United Arab Emirates
P.O. Box 38983
Free Phone: +971 800 GYPROC (497762)
Email: gyproc-me@saint-gobain.com

Recommended uses: Perforated gypsum acoustic boards for ceiling and wall applications.

2. Hazards identification

The product is not classified as hazardous under the CLP regulations. Dust from sawing or sanding may irritate the respiratory system, skin and eyes.

3. Composition / Information on ingredients

Calcium sulphate dihydrate. 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. The boards may be perforated or textured. Rigitone boards include an acoustic tissue laminated to the back face.

4. First aid measures

Eye contact
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 - Wear eye / face protection.

Skin contact
S28 - After contact with skin, wash immediately with plenty of soap and water.
S36 - Wear suitable protective clothing.

Ingestion
S62 - If swallowed, do not induce vomiting, seek medical advice immediately and show this document.
S64 - If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation
S51 - Only use in well ventilated areas.
S63 - In case of accident by inhalation, remove casualty to fresh air and keep at rest.

General
Get medical attention if any symptoms persist.

5. Fire fighting measures

The product does not pose a fire hazard. However, some packaging materials or facing may burn.

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

6. Accidental release measures

Not applicable

7. Handling and storage

Use - Minimise and control dust when sawing or sanding boards in confined spaces.

Manual handling - When manually handling boards or packs, use correct manual handling techniques according to size, thickness and density.

Storage conditions - Store in dry conditions. To maintain stability place pallets on firm level ground and ensure that stacks are both level and vertical.

8. Exposure control / personal protection

Workplace exposure limit

Substance	Total Inhalable	Respirable
Plaster	10 mg/m³ 8 hr TWA	4 mg/m³ 3 hr TWA
Quartz (silica)	-	0.1 mg/m³ 8 hr TWA
Man Made Mineral Fibers (MMMF)	5 mg/m³ 8 hr TWA (gravimetric method)	-

Personal protection

Respiratory
S51 - Use only in well ventilated areas.
S39 - Wear eye / face protection.
Face masks to EN 149 FFP2.

Skin
S36 - Wear suitable protective clothing.

Eye
S39 - Wear eye / face protection.
Eye protection to BS EN 166.

9. Physical and chemical properties

Appearance: Perforated gypsum board with square edges
Thickness: 12.5mm
Odour: Odourless

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 considerations

Waste from gypsum plasterboard products is normally classified as 'non-hazardous, non-inert', is fully recyclable and is classified as EWC 17 08 02.

If you would like to recycle Gypsum plasterboard waste, we at Gyproc offer Gypsum recycling services and are happy to take segregated waste from your site. Please refer to the Gyproc® Plasterboard Recycling brochure. Always seek advice of a trained and competent professional. Off-cuts, where appropriate, can be used as noggings to reduce or remove recycling requirement. Alternatievely, Plasterboard waste can be disposed off at an authorized landfill site in accordance with the local waste management regulations.

14. Transport information

Not classified as hazardous for transportation.

15. Regulatory information

Not classified under the CLP regulations.

16. Other information

Control of Substances Hazardous to Health Regulations (COSHH)
The Manual Handling Operations Regulations
HSE Guidance Note EH40: Workplace Exposure Limits
Gypsum Wastes – Environment Agency Information Sheet
Gyproc Middle East **WHITE BOOK**
Gyproc Middle East website: **www.gyproc.ae**

Note to user: This safety datasheet 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 White Book, available to download from www.gyproc.ae

PRODUCT Rigitone 12-20-35

PROJECT GEMS International School, UAE

PEFC PEFC-01-31-83 The paper used for this brochure comes from PEFC mixed sources

Vegetable ink has been used in printing this brochure
Third Edition
Literature Code: 0167 - ACB

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

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