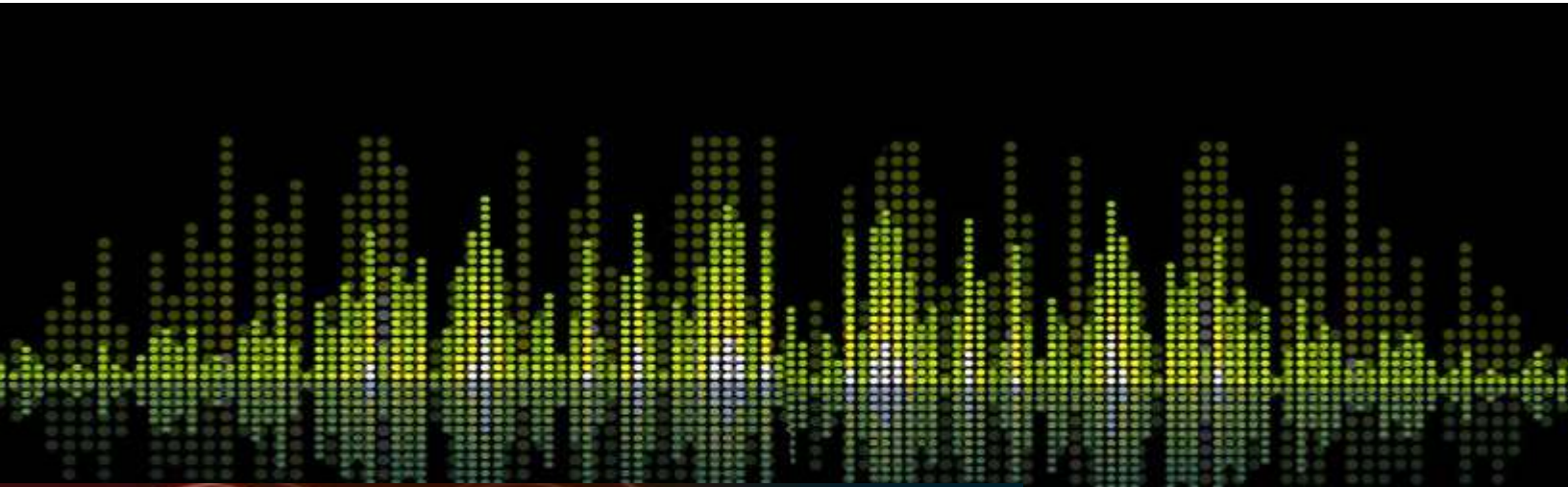


# *Ronistics*



*Offering acoustic comfort*

# Ronistics

**MASSETER Inc** developed **Ronistics** that would allow a holistic approach to creating truly customized sound control solutions, for projects ranging from sound studios to classrooms, worship facilities to manufacturing plants, from sports complex to gymnasium. **Ronistics** products are manufactured on the solid principle of providing solutions that simply work.

**Ronistics** solves sound and noise control problems to improve every environment of your life. We believe in solving acoustic problems and bring sound comfort in the world

Acoustic is a subject having some complex scientific and mathematical aspects, there are also some basic principles that can be applied in order to create a better understanding about how sound works and why you may have a problem in your particular space.

**Ronistics** offers you some of the basic theories and quality acoustic products to solve your problems.

## Ronistics:

- Transforms your noisy space and restores acoustic comfort.
- Offers the best value for money on full range of products.
- We believe every acoustic treatment should be an aesthetic enhancement to your space.

**Ronistics** product range has total control on the acoustics within the given space in any building. Our product range includes :

**Ronistic FAB**



**Ronistic WG**



**Ronistic WW**



**Ronistic XPE**



**Ronistic FELT**



**Ronistic SPD**



*Products of* **MASSETER Inc**

# Ronistics

## Ronistic FAB

1. Offers High Performance
2. Architecturally Decorative
3. Custom Engineered & Manufactured
4. Reduced Noise & Reverberation
5. 100% Custom Colors and Sizes



### Technical

#### specifications

**Material** : 100Kg. density fiber glass wrapped with woven fabric

**Edges** : Square and bevelled chemically hardened

**Applications** : Offices, schools, meeting rooms, music rooms, hotels Auditorium, recording studios

**Thickness** : 25mm and 50 mm

**Size** : multiples of 300mm (Other sizes against order)

**Colors** : A wide range of standard colors and Custom colours are available from woven fibers

**Flammability**: ASTM E84, Class A. Flame Spread: 15; Smoke Developed: 40

**Installation** : By impaling clips

**Acoustical Performance**: as detailed below



Sound absorption coefficients							
Panel Thickness	125Hz	250Hz	500Hz	1000Hz	2000Hz	2500Hz	NRC
25mm	0.10	0.32	0.75	1.02	1.09	0.96	0.80
50mm	0.45	0.74	1.26	1.29	1.17	1.20	1.10

## Ronistic FAB

Complies to ASTM C423/ASTM C423-09a

NRC is being replaced by the [Sound Absorption Average](#) (SAA), which is described in the current [ASTM C423-09a](#)

The **Noise Reduction Coefficient (NRC)** is a scalar representation of the amount of [sound energy](#) absorbed upon striking a particular surface. An NRC of 0 indicates perfect [reflection](#); an NRC of 1 indicates perfect [absorption](#)

# Ronistics

## Ronistic WG

Groove Wooden Acoustic Panels have longitudinal grooves and slats, machined along the length of the panel. These panels have a laminate finished surface, base core board and black acoustic felt attached on the back. The base core board is 15mm or 18mm thick Medium Density Fiberboard (MDF). Groove Wooden Acoustic Panels are manufactured with tongue and groove to achieve a perfect finish when assembled.

**Ronistic WG** meet various acoustical requirements while enhancing the look of your project with the warmth and beauty of wood.



### Features & Specs:

**Material:** MDF, Acoustic fleece is pasted on the back surface of acoustic panels which is a sound-absorbing fire proof membrane

**Density:** 750 Kg/m<sup>3</sup>

**Thickness:** 12/15/18mm

**Surface:** Melamine and real wood veneer

**Dimensions:** 2440x128mm

**Thickness:** 12/15/18mm

**Pattern:** 13-3, 14-2, 28-4, 59-5 (Grooved pattern)

**Fireproof:** MDF core is treated to make fire retardant and the core is pink in colour classified as class B1

**Eco friendly:** class E1



## Ronistic WG

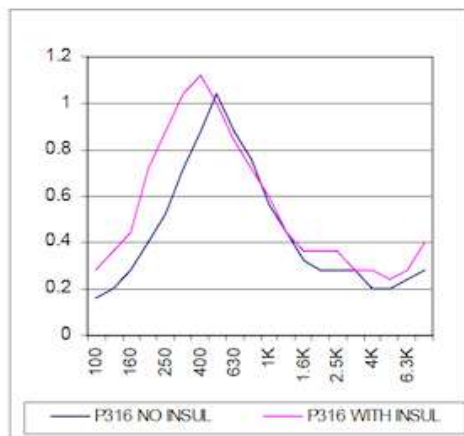
Available in grooved as well as perforated panels which gives flexibility to designers

## Ronistic WGFR



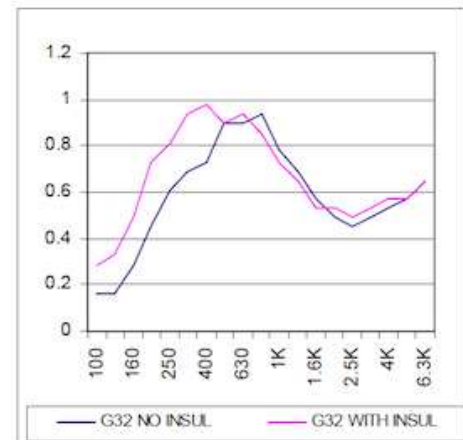
Available in fire retardant quality grooved as well as perforated panels.

Perforated Panel: 3mm Holes at 16mm centres.



Sound absorption can be enhanced by filling the wall and panel cavity with Fiberglass insulation minimum 16kg

Grooved Panel: 3mm Grooves at 32mm centres



# Ronistics

**Ronistic WW** wood wool boards consist of long strong wood fibres, stabilised by chemical impregnation and bound by cement-binding agent into a compact coherent structure. The mineralisation process strongly increases the fire resistance of wood wool. The composition and performance of the boards make them ideal for many different applications in building construction. As a result of Plus panels composition, tests have shown that they are unaffected by moisture and frost. Produced in accordance to standard EN 13168.

- Ecologically and biologically sound
- Robust and impact resistant
- Un affected by high humidity
- Lower environmental effect
- 1-layer magnesite bonded wood wool acoustic panel (fibre width 2mm). Characteristic surface structure, building biology recommended.

### Areas of application

As decorative, acoustically effective suspended ceilings and wall coverings for use indoors and in covered outside areas that are not exposed to weather such as rain or environmental pollution.

### Overview of technical data:

Sound absorption value  $\alpha_w$  up to 0.90

Reaction to fire acc. to EN 13501-1: B-s1,d0



**\* Installation is very simple as panels can be screwed to the wooden studs by screws and panels can be cut by saw.**  
11111111111111

Thickness	Frequency Hz						Specifications		
	125Hz	250Hz	500Hz	1000Hz	2000Hz	400Hz	Alpha	NRC	Class
25mm	0.75	1.00	0.95	0.90	0.80	0.90	0.90	0.90	A

# Ronistics

## Ronistic XPE:

**Ronistic** XPE is chemically cross linked PE foam. It is produced in continuous rolls resulting in a foam product with uniform, closed cells and smooth skins on both sides. It is light weight, flexible and soft to touch, yet strong, tough, resilient and resistant to moisture, many chemicals and temperature extremes.

Compared with non-cross linked polyethylene foam, it typically offers superior thermal stability and insulating properties plus improved dimensional consistency and stability over a wide range of fabrication methods and end-user's conditions.

**Ronistic** XPE is used as insulation and sound absorbing materials in a host of container's designs. It is easy to work in fabricating and thermoforming. XPE foams are right at home in the building and construction industry where thermal insulation, moisture resistance, sound and vibration are critical. Indoor or outdoor XPE foams build success. **Ronistics** is available in wide array of beautiful colours and variable densities.

### Technical specifications

<b>Material</b>	Cross linked Polyethylene foam ( PE foam)
<b>Brand</b>	<b>Ronistic</b> XPE
<b>Thickness</b>	10mm- 25mm
<b>Density (Kg/M3)</b>	20-200Kg/m3
<b>Dimension</b>	1300 x 2000 mm or customized
<b>Specific gravity &lt; gM</b>	0.1
<b>Characteristic</b>	Heat insulation, shockproof, buffering, weather fastness ,non-toxic, no odor, acid proof alkali, sound absorption, non-pollution
<b>Thermal Conductivity</b>	0.038 ASTM 177
<b>Water absorption (mg/cC)</b>	0.06
<b>Heat Resistant Temperature</b>	+80C -100c
<b>Compression strength(KK/cC)</b>	1.3
<b>Compression set (%)</b>	3.5
<b>Repeating compression set %</b>	4.9
<b>Tensile strength (KK/cC)</b>	Length wise 9.2, width wise 8.2



\*\*\*\*\* Installation Of the Ronistic XPE panels on the wall will be easily done as a self adhesive membrane is provided on the back of the board. Peel off the PVC film and fix on the wall. You may also use acrylic sealant dabs for fixing on the wall.

# Ronistics

**ACOUSTO WALL** the panels are manufactured from high density glass wool. The visible surface has a glass fibre fabric or an impact resistant glass fibre fabric and is also available with a painted surface. The back of the panel is covered with glass tissue with an approximate weight of 4 kg/m<sup>2</sup> and natural edges.



Ideal for Cinemas \ Gyms \ Open plan offices

## Technical Data:



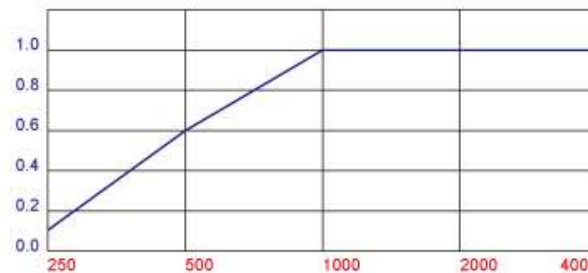
Fire-resistant

CLASS A (SGS)



(NRC) = 1.0

Hz	250	500	1000	2000	4000
NRC	0.15	0.60	1.00	1.00	1.00
$\alpha_w$	0.7	0.9	0.9	0.9	0.8



## Size Option:

Length MM	Width MM	Thickness MM
2700	600	40
2700	1200	40

\*Other sizes on customer's request



Density

130KG/M3



Moisture Rate

≤3%



Thermal Insulation

≥0.5 m<sup>2</sup>·K/W



White  
RAL9016



Grey  
RAL7044



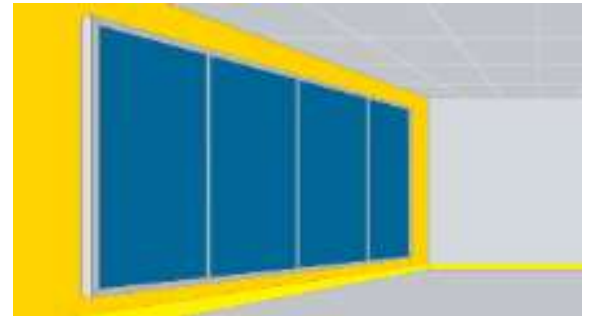
Beige  
RAL1001



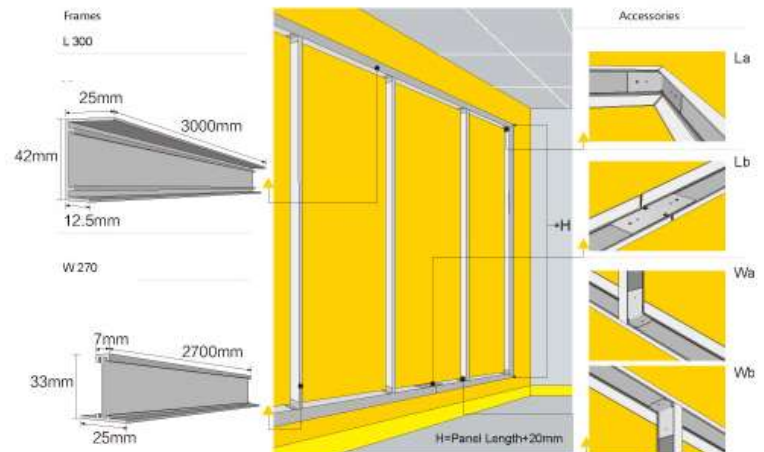
Blue  
RAL5017



Black  
RAL9011



## Installation Details



## Influence of climate

The panels withstand a permanent ambient RH up to 95% at 30°C and RH up to 75% at 30°C without sagging, warping or delaminating (EN 13964). Thermal resistance for the panels,  $R_p=1,0 \text{ m}^2\text{C/W}$ .

Acoustowall panels have high level of fire resistance and high Noise reduction coefficient hence ideally used in auditoriums, seminar halls and conference rooms to achieve best acoustic ambience.

*A popular product of Ronistics*

# Ronistics

**Ronistic FELT** : is a versatile acoustic material that has been designed to be used as a high performance underlay that can be used under variety of floor finishes. It is manufactured as a closed cell polyethylene acoustic membrane that has been designed to decouple the final floor finish from the acoustic floor system. This decoupling improves acoustic performance of the floor by removing the direct sound paths from the floor finish.

## Product Data:

Can be laid as a high performance acoustic underlay under final floor finishes

Comprises of a closed cell polyethylene foam, given excellent impact reduction under final floor finishes

Product dimensions - 5mm Rolls 93.75mx1.2mx5mm - 10mm Rolls 52.08x1.2mx10mm

Overall nominal thickness of 5 and 10mm

## Acoustic Benefits:

Improved impact performance by decoupling the floor finish

Removes direct sound paths from the floor finish to the acoustic floor system or structure

Can allow timber floors to be used in residential developments

## Features :

Economical solution to decouple final floor finishes

Thin, durable and high performing for impact noise reduction

Allows hard floor finishes to be used over acoustic floor solutions

Easy to install material

Versatile material to be used in many applications

Compatible with our **Ronistic** products



Deflection Pressure (PSF) Average Deflection (Inches)

100 0.027

200 0.046

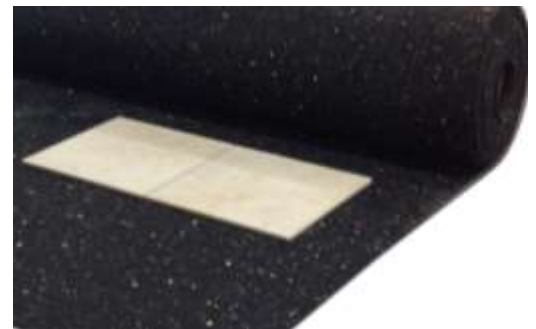
500 0.090

1000 0.131

2000 0.174

4000 0.221

FF1-70 (Pill Test) Pass ASTM E-648 Radiant Panel Class 1\*



\*Passes the radiant panel Class 1 as an assembly with a Class 1 rated surface material

**Ronistic SPD** : Acoustical Wood Doors have STC ratings from 41 to 49. Wood doors are provided with metal framing systems and are intended for interior use only.

Because of our unique manufacturing methods and patent pending designs, these acoustical wood doors achieve a higher STC rating and are lighter weight than most comparable doors on the market.

Typical installation for personnel size wood doors include: theaters, concert halls, conference rooms, recording studios, and educational classrooms.

Standard sizes: 1000x2200mm & 1400x2200mm







*Ronistics*



  
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