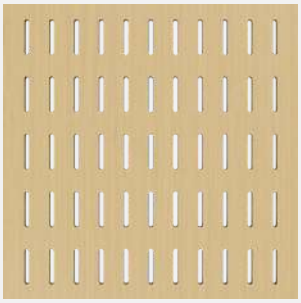
Boreart Frontenac Series



Combining acoustic performance and architectural design, the Frontenac Series offers high-end soundproofing panels designed for interior walls and ceilings. Thanks to their sound absorption capacity, they eliminate reverberation and ensure optimal acoustic comfort. Easy to install, these panels are composed of a high-quality real wood veneer laminated onto natural or black MDF for an elegant and durable finish.

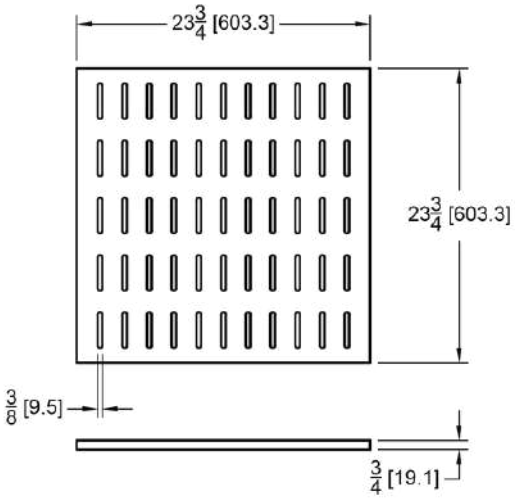


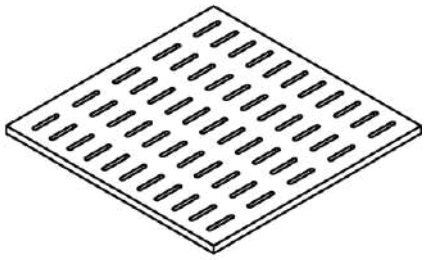
CHARACTERISTICS

Nominal panel size	24" x 24" 24" x 48"
Panel material	Natural or black MDF Available upon request in Fire-resistant MDF (FR) - Moisture-resistant MDF (MR)
Pattern sizes and spacing	One standard size; see the drawing on page 2. Custom sizes and spacing are available.
Melamines	Five (5) standards melamines, Natural, Mist, Amber, Torrefied et Charcoal - other melamines available upon request
Acoustic material	Polyester and recycled plastic felt - 3.5 to 25.4 mm - 33 color options, see page 3. Noise Reduction Coefficient (NRC) up to 0.70 to 0.85.
Fire resistance	ASTM E-84 - Class A | Class 1 Flame spread index = 0-25 Smoke production index = 450 max NAF
Environment	Made from materials consisting of 100% pre-consumer recycled wood, FSC certified, and subject to an NAF (no added formaldehyde) exemption.
Use	Interior; residential, commercial, and institutional
Installation	Rigid panels and easy installation Vertical or horizontal installation For interior walls and ceilings
Others	High-performance acoustic properties offering excellent sound reduction

*Specifications regarding pre-consumer recycled wood, FSC certification, and SFA exemption vary depending on the materials used. For more information about a specific material, please contact us.

FRONTENAC PANEL, 24" X 24", WITH DIMENSIONS





		24" x 24"	24" x 48"
Frontenac panel	**Approximate weight**	10.26 lbs	20.52 lbs
	Total area	4 ft^2	8 ft^2
Acoustic material Felt - fire resistant	**Size**	24" x 24"	24" x 48"
	Thickness	3.5 mm 9.5 mm 12.7 mm 25.4 mm	

For more details on installation, please refer to the Boreart Frontenac Series installation guide on the website www.boreart.ca.

MELAMINES


01 Natural


02 Mist


03 Amber


04 Torrefied

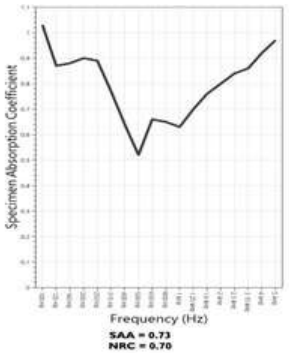

05 Charcoal

*Please note that the colors shown may differ slightly from the actual colors due to variations in display rendering. For more details, please contact Boreart.

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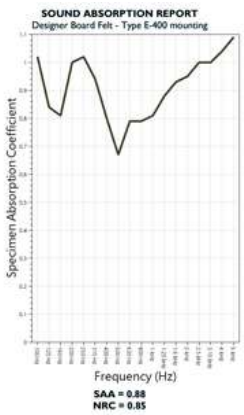
ACOUSTIC PERFORMANCE

Frontenac panels are designed to reduce ambient noise when felt is affixed to the back. Noise Reduction Coefficient (NRC) of up to 0.70 to 0.85.



1/3 Octave Center Frequency (Hz)	Total Absorption (m^2)	Total Absorption (Sabins)	Absorption Coefficient
100	6.89	74.19	1.03
** 125	5.83	62.74	0.87
160	5.87	63.21	0.88
200	6.03	64.87	0.90
** 250	5.93	63.84	0.89
315	5.18	55.75	0.77
400	4.30	46.30	0.64
** 500	3.48	37.47	0.52
630	4.41	47.43	0.66
800	4.37	46.99	0.65
** 1000	4.21	45.31	0.63
1250	4.70	50.58	0.70
1600	5.06	54.46	0.76
** 2000	5.34	57.52	0.80
2500	5.59	60.17	0.84
3150	5.72	61.60	0.86
** 4000	6.13	65.97	0.92
5000	6.50	69.99	0.97

SAA = 0.73
NRC = 0.70



1/3 Octave Center Frequency (Hz)	Total Absorption (m^2)	Total Absorption (Sabins)	Absorption Coefficient
100	6.85	73.75	1.02
** 125	5.59	60.21	0.84
160	5.41	58.27	0.81
200	6.71	72.24	1.00
** 250	6.84	73.58	1.02
315	6.28	67.61	0.94
400	5.35	57.61	0.80
** 500	4.46	48.00	0.67
630	5.31	57.17	0.79
800	5.30	57.09	0.79
** 1000	5.40	58.12	0.81
1250	5.92	63.68	0.88
1600	6.23	67.02	0.93
** 2000	6.33	68.13	0.95
2500	6.70	72.10	1.00
3150	6.71	72.23	1.00
** 4000	6.95	74.82	1.04
5000	7.28	78.36	1.09

SAA = 0.88
NRC = 0.85

3.5 mm FELT



9.5 mm - 12.7 mm - 25.4 mm FELT



*Please note that the colors shown may differ slightly from the actual colors due to variations in display rendering. For more details, please contact Boreart.

For thicknesses of 9.5 mm, 12.7 mm, and 25.4 mm, a finishing option is available to expand the color selection. This option involves using black felt as a base layer and then bonding a 3.5 mm layer of felt in one of the 33 available colors to it.

For more information on the felt, please refer to the technical data sheet on the website www.boreart.ca.

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WARRANTY

Boreart offers a 3-year limited warranty on all its panels. For more details on the limited warranty, please contact Boreart.

USE & STORAGE

Wood products are hygroscopic by nature and must be installed flat and maintained in a building with a controlled environment. The temperature must be maintained between 15° and 30°C. Relative humidity must be maintained between 25% and 55%.

The advice and recommendations are purely advisory.

Handling and storage - panels must be stored in such a way as to protect them from moisture and direct sunlight. Panels should preferably be stored face to face or with the decorative side facing up, flat, completely horizontal, and level.

When handling or moving panel, it is important that the sheets are lifted above the adjacent sheets to avoid damage that may occur if the sheets are pulled or slid against each other. For larger formats, it is recommended that arched sheets be carried along the longitudinal axis to prevent sagging. Individual sheets can also be rolled up for easier handling.

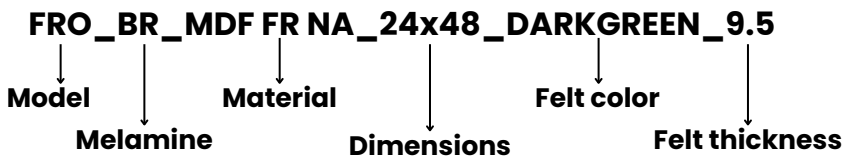
Failure to comply with one or more of the above conditions will void the Boreart Architectural Products warranty.

Large orders of Boreart products are packaged and shipped in wooden crates and/or on 4'x4' wooden pallets.

HOW TO ORDER

To order a product, please write to **info@boreart.ca** using the following template to ensure maximum accuracy.

The first characters indicate the model code, followed by the melamine code, the panel material, the desired dimensions, and the last letters represent the full color of the felt and its thickness.



Model	Melamine		Material		Dimensions	Felt color	Felt thickness
Frontenac : FRO	Natural :	NA	Natural MDF :	MDF NA	24x24	See page 3 for felt colors	3.5 mm
	Mist :	BR	Black MDF :	MDF NO	24x48		9.5 mm
	Amber :	AM	Natural FR MDF :	MDF FR NA			12.7 mm
	Torrefied :	TO	Natural MR MDF :	MDF MR NA			25.4 mm
	Charcoal :	CH					

*Since our panels are custom-made, they are also available in other colors and sizes to meet more specific needs. For any custom orders, please contact us by email or phone.