PANEL WITH MINERAL FIBER CORE

The Noroc® architectural panel is a fire-rated, insulated metal panel designed for highly energy efficient buildings.

The core comprises a noncombustible, rigid stone-fiber insulation board made from natural basalt rock and recycled slag.

NOROC®-L

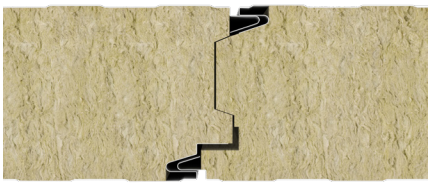
SPECIFICATIONS

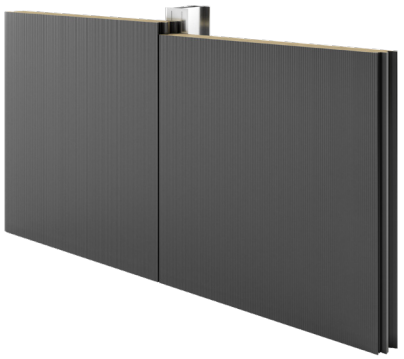
DESCRIPTION	→ Vertical Mounting → Joint with concealed fastening clips → Different architectural arrangements → Applications: Interior & Exterior
REVEAL | OPENING OPTION	1/8"
WIDTH [1]	42 ½"
THICKNESS	5", 6" or 8"
FIRE RESISTANCE	5" - 60 min | 6" - 120 min | 8" - 180 min
R-VALUE	→ R4/in @ 75 °F mean temperature [3]
MAXIMUM LENGTH	52' - 6" [4]
PROFILE	→ Interior : Silkline or Grooved → Exterior : Micro-ribbed, Silkline or Grooved
GAUGE	→ Interior : 26, 24 or 22 ga → Exterior : 26, 24 or 22 ga

WEIGHT (lbs/ft²) [2]

	5"	6"	8"
26/26 ga	5.04	5.75	7.17
24/24 ga	5.54	6.25	7.67
22/22 ga	6.04	6.75	8.17

JOINT





(1) The final module width may change due to fabrication and installation tolerances. It is not recommended to design panel layouts where precise panel joint position is critical, as minor variations may occur. (2) Data calculated using 0.019 in. thick steel and stone fiber with a density of 8.50 lbs/ft³. (3) Results as per ASTM C518 testing and technical evaluation. (4) Lifting equipment must be adapted.

APPLICATIONS

In addition to serving as fire-resistant partitions, Noroc products are used in a variety of applications, including industrial or commercial buildings, controlled environments, sports centers, and radiant barrier facades.

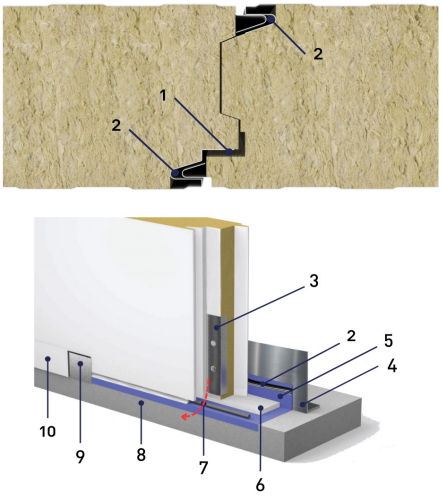
FEATURES / BENEFITS

- → Exclusive and superior fastening system
- → Wider girt spacing reduces costs
- → Fast, simple & economical installation

- → Contains up to 51.7% recycled content
- → Can contribute to obtaining LEED certification for a project
- → Stone fiber has an ozone-depletion potential (ODP) of zero
- → Noncombustible building materials with excellent fire resistant properties

- → No cavities, penetration, thermal bridges, or risk of interstitial condensation
- → Noroc® pressure-equalized rainscreen joint ensures that the building envelope is well sealed
- → Option : factory-applied butyl sealant in the interior and exterior joint

PRESSURE-EQUALIZED RAINSCREEN JOINT



1. AIR CAVITY
2. BUTYL
3. FASTENER
4. STRUCTURAL ANGLE
5. AVB MEMBRANE
6. POLYETHYLENE
7. WEEP HOLE
8. FOUNDATION
9. TRIM HANGER
10. TRIM

MAIN PHYSICAL PROPERTIES OF ROCK WOOL

PROPERTY	METHOD	RESULTS
Surface burning characteristics	ASTM E84 (UL723)	FSI = 0, SDI = 0
Test for non-combustibility	CAN4-S-114	Noncombustible
Moisture absorption (96-h exposure to high humidity atmosphere)	ASTM C1104	0.05 % by weight
Linear shrinkage	ASTM C356	0.19 %
Thermal resistance (R-value/inch @ 75 °F)	ASTM C518 (C177)	→ R4/in @ 75 °F mean temperature [3]
Corrosiveness	ASTM C665	Passed
Stainless-Steel Stress Corrosion specification as per test method C871 and C692 : Nuclear regulatory Commission, Reg. Guide #1.36 : US Military Specifications MIL-I-24244 (all versions, including B and C)	ASTM C795	Compliant
Density (lbs/ft^3)	ASTM D1622	8.50 lbs/ft^3
Compressive strength (at 10 %) (4 in. panels)	ASTM C165	6.64 PSI (45.8 KPA)

TESTS / CERTIFICATIONS

	PROCEDURE	RESULTS
Fire – Canada	CAN/ULC-S101	5" = 60 min | 6" = 120 min | 8" = 180 min [5]
	CAN/ULC-S102	Flame spread ≤ 25 Smoke developed ≤ 150 → Evaluated with steel skin
	CAN/ULC-S126	Test requirements have been met
Fire – US	ASTM E84	Flame spread = 0 Smoke developed = 0 → Core insulation
	ASTM E119	5" = 60 min | 6" = 120 min | 8" = 180 min [5]
	FM 4880	Available soon
Structural	ASTM E72	See Noroc Deflection Chart
	FM 4881	Available soon
Thermal performance	ASTM C518	→ R4/in @ 75 °F mean temperature [3]
	ASTM C1363	U-value (BTU/h*F*ft²) 5" .0483 6" .0405 8" .0306
Water vapor performance	ASTM E96	0 perm
Air infiltration	ASTM E283	Test requirements have been met
	ASTM E330	Test requirements have been met
	CAN/ULC-S741	Test requirements have been met
	CAN/ULC-S742	Test requirements have been met
Water infiltration	ASTM E331	Test requirements have been met
	AAMA 501.1	Test requirements have been met

(5) See detail ROC-IC-7.04 for installation procedures for interior partition use.

QAI LISTING NO : B1096-2

NORBEC™

Insulated metal panel solutions | Walk-in coolers & freezers

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For more information on Norbec products, please visit **norbec.com**.

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