



PRODUCT DATA SHEET

Rockwool Insulation | Type R-11

ROCKWOOL INSULATION

Type R-11 | Interior Sound & Fire Batt Insulation

This sheet summarizes manufacturer data for stone wool batt insulation used in interior wall and floor/ceiling assemblies. West Coast Sound Solutions identifies it as **Rockwool Insulation** with the requested **Type R-11** designation.

NRC 1.05

Sound Absorption

ASTM C423 result for 3 in. batt. NRC summarizes absorption; it is not a wall STC rating.

STC 52

Tested Wall Assembly

Airborne sound-isolation rating for a specified wall assembly, not the insulation batt by itself.

1 Hour

Fire Resistance

Fire rating applies to a referenced complete assembly using Type X gypsum board and specified framing.

0 / 0

Flame Spread / Smoke

Surface-burning indexes: no measurable flame spread or smoke in the referenced standard tests.

Product Positioning

Primary Use

Interior sound control and fire protection in framed wall and floor/ceiling cavities.

Typical locations

- Interior partitions between rooms
- Ceilings between floors and basement ceilings
- Theaters, studios, offices, bedrooms, bathrooms, utility/furnace rooms

Core Benefits

- Dense semi-rigid friction fit
- Resists water, rot, mold, mildew, and bacterial growth
- Does not promote flame spread or smoke development when exposed to fire
- Cuts with a serrated knife around boxes, wiring, and pipes
- Natural stone and recycled content

Brief Project Clarifications

Type R-11: Used here as the requested project/product designation. Manufacturer literature identifies this as an acoustic/fire stone wool batt and states it is not intended for thermal applications; verify thermal R-value and code requirements separately.

Assembly data: STC and fire-resistance values depend on the complete tested assembly and installation quality.

Source: Manufacturer literature for Roxul Safe'n'Sound stone wool fire and soundproofing insulation, reformatted for West Coast Sound Solutions product identification as Rockwool Insulation.

TECHNICAL DATA

Rockwool Insulation | Type R-11

Product Description & Physical Properties

Characteristic	Reported Manufacturer Information
Material	Stone wool-based mineral wool batt made from natural stone and recycled content.
Form	Semi-rigid batt insulation for interior wall and floor/ceiling applications.
Nominal Thickness	3 in. / 76 mm.
Density	2.5 lb/ft ³ / 40 kg/m ³ .
Available Sizes	Steel stud: 16.25 in. x 48 in. and 24.25 in. x 48 in.; wood stud: 15.25 in. x 47 in. and 23 in. x 47 in.; all 3 in. thick with flexible edges.
Thermal Use / R-11 Note	Manufacturer sheet states product is not intended for thermal applications. Type R-11 is used here as the requested project designation; verify any thermal R-value separately.

Acoustical Performance - ASTM C423

Product / Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
Rockwool Insulation / 3 in.	0.52	0.96	1.18	1.07	1.05	1.05	1.05

Clarity: ASTM C423 reports sound absorption by frequency; NRC is a single-number absorption summary. It is not the same as STC, which rates sound isolation of a complete assembly. Values above 1.00 can occur in standard absorption testing.

Assembly Performance References

Assembly Description	STC	Fire	Brief Clarity
5/8 in. gypsum boards, 3-5/8 in. steel studs at 24 in. centers, and stone wool batt.	52	1 Hour	Tested complete wall assembly; not batt alone.
Single stud interior wall with wood studs at 16 in. OC, 3 in. batt, 5/8 in. Type X gypsum, and resilient channels at 16 in.	45	1 Hour	Requires specified components and spacing.
Interior floor/ceiling with 2 x 10 joists at 16 in. OC, two batt layers, 5/8 in. Type X gypsum, and resilient channels at 24 in.	50	30 Min.	Tested floor/ceiling assembly; installation matters.

Compliance & Fire Test References

Reference Standard	Reported Result	Brief Clarity
CAN/ULC-S702-09; ASTM C665	Type 1, complies.	Product standard classifications; not a standalone thermal R-value.
CAN4-S114; ASTM E136	Non-combustible.	Material test classification; separate from assembly fire rating.
CAN/ULC S102	Flame Spread = 0; Smoke Developed = 0.	Surface-burning indexes: no measurable flame spread or smoke under the test conditions.
ASTM E84 (UL 723)	Flame Spread = 0; Smoke Developed = 0.	U.S. surface-burning test result. Not the same as fireproof or a 1-hour rating.
CAN/ULC S102	Smoulder Resistance = 0.09%.	Low reported smoulder value; use with full fire/code review.