

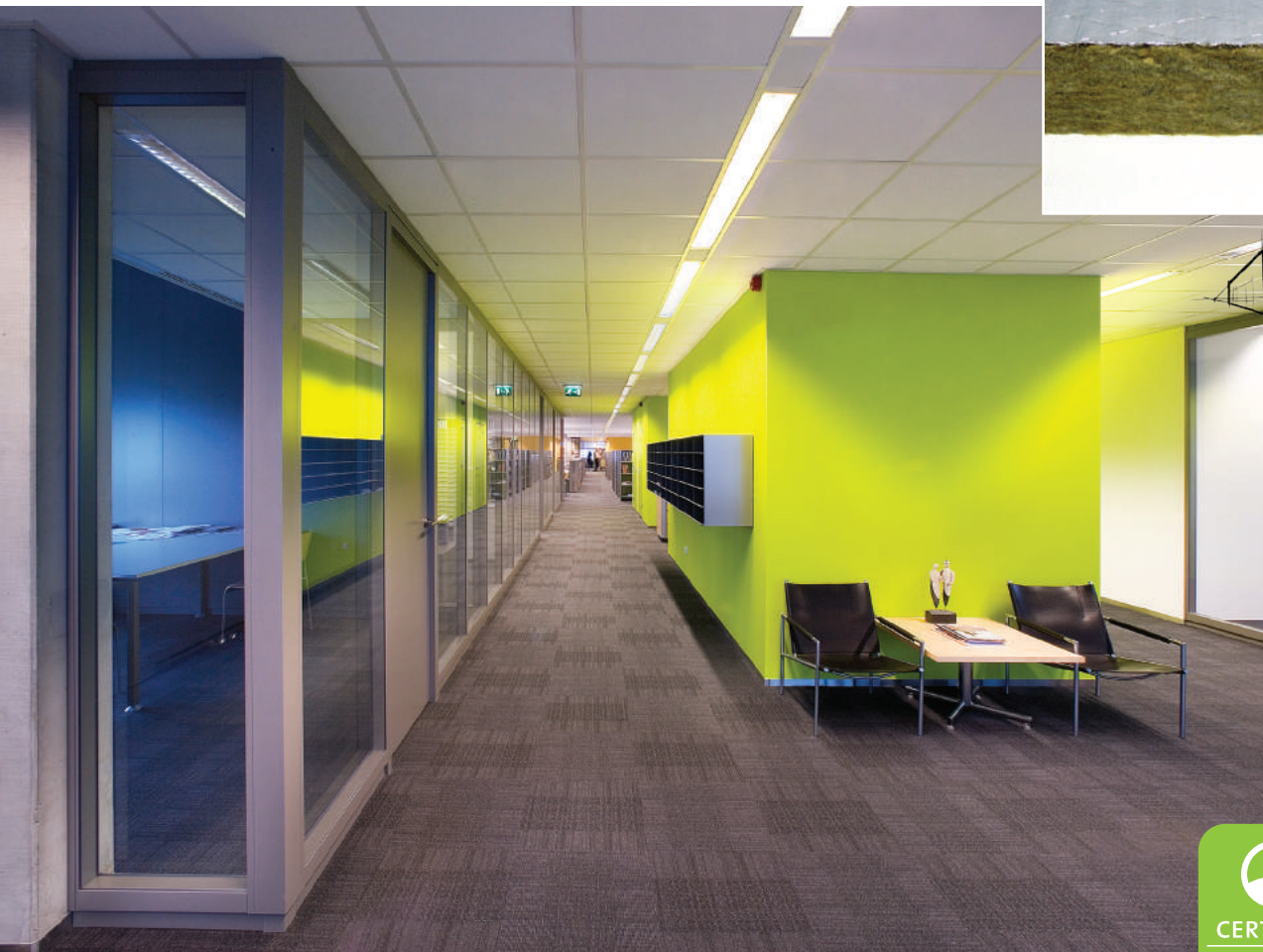
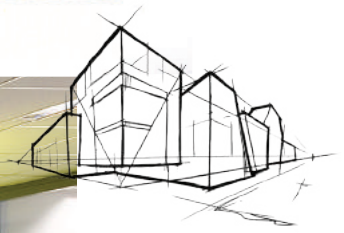
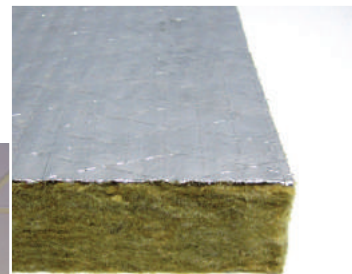
Rockfon[®] Plenum Barrier Board

Features & Benefits

- Improves sound isolation and privacy between rooms
- Installs quickly above interior partitions
- Lightweight and easy to cut
- Conforms around pipes and ducts
- Expands and contracts with deflection
- Fire Performance - Class A

Applications

- Combine with acoustic ceilings
- Private offices and meeting rooms
- Patient, exam and treatment rooms
- Classrooms
- Pre-manufactured/ modular rooms
- New construction or post occupancy remediation



Rockfon ceiling tiles are manufactured using advanced stone wool technology. All stone wool tiles benefit from:



High Acoustic Absorption



Fire Performance - Class A



Moisture and Sag Resistance

Rockfon® Plenum Barrier Board

LEED® v4.1 Highlights

Materials and Resources (MR)

- Waste Management Planning
- Interiors Life Cycle Impact Reduction
- Environmental Product Declarations
- Sourcing of Raw Materials
- Material Ingredients
- Waste Management


Indoor Environmental Quality (EQ)

- Low-Emitting Materials ✓
- ✓ Interior Lighting -
- ✓ Acoustic Performance ✓

Recycled Content: up to 40%

Packaging Information



Edge designation	Item number	Board size	lbs/sqft	sqft/pallet	Fire Class
Square 	7900	2' x 4' x 1-1/2"	1	480	A

Material Stone wool (mineral wool) semi-rigid insulation board with reinforced aluminum foil facing adhered on one side

When to Use Rockfon Plenum Barrier Board 7900

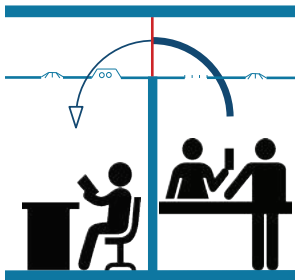
Design/Construction Consideration	Use Rockfon Plenum Barrier Board 7900 When:	Use a Full-height Partition When:
Compliance with standards	Plenum barriers are required or compliance with a standard is not mandatory	STC-rated full-height walls are required
Contiguous ceiling grid	Ceiling grid will or does run contiguously over tops of interior partitions	Not an option
Prefabricated modular partitions (glass or opaque)	Prefabricated, modular partitions stop in height at underside of suspended ceiling	Not an option
Height of plenum above suspended ceiling	Plenum is less than four feet tall or when metal studs extend full height to floor or roof above	Ceiling height plus plenum height is no greater than twelve feet high
Future relocation of partitions	Moderate to high probability partitions will need to be relocated for occupancy or space usage changes in the future	Low probability partitions will need to be relocated for occupancy or space usage changes in the future
Floor/roof deflection	Deflection would require full height partitions to have a deflection head	Deflection head at top of partition is not required
MEP in plenum	Moderate to high number of ducts, pipes and conduits in plenum above ceiling	No or low number of ducts, pipes and conduits in plenum above ceiling
Underside of deck above	Structural surface above plenum is not flat; example corrugated metal deck	Structural surface above plenum is flat; example poured or precast concrete
Partition orientation in plan	Partitions run on angles relative to metal deck flutes above	Partitions run parallel to metal deck flutes above

Performance



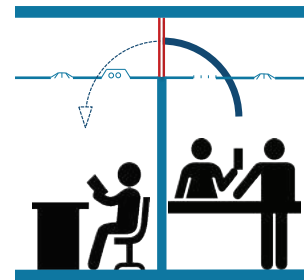
Without Plenum Barrier Board

- Blocking level 20-35 STC/CAC/NIC
- Test report NGC-6016008
- Noncompliance with most standards
- Avoid this design approach



With 1-Layer Plenum Barrier Board

- Blocking level 40 STC/CAC/NIC*
- Test report NGC-6016016
- Compliance with some standards
- Use over walls with standard doors and large areas of glass



With 2-Layer Plenum Barrier Board

- Blocking level 50+ STC/CAC/NIC*
- Test report NGC-6016017
- Compliance with most standards
- Use over walls without doors and glass

Note:

STC: Sound Transmission Class ASTM E90 / ASTM E413
 CAC: Ceiling Attenuation Class ASTM E1414 / ASTM E413
 NIC: Noise Isolation Class ASTM E336 / ASTM E413

* Blocking level results from combining ceiling performance with plenum barrier performance. Ceiling should be standard, 5/8" thick (or thicker), stone wool ceiling panels in suspension grid. The construction of the interior partition should have equal or greater sound blocking performance.

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