

GYPSUM BOARD PLENUM BARRIER: BEST BLOCKING STC 50

FLOOR OR ROOF ABOVE

Caulk gypsum board at top of wall

Caulk pipe, duct and conduit penetrations

RECESSED LIGHT

ROOM 1

OPEN RETURN AIR GRILLE

ROOM 2

PLENUM BARRIER

- 5/8" gypsum board (type X) - 1 layer
- Sealed install * (caulk & tape)
- 3-1/2" thick ROXUL AFB Semi-Rigid Batt Insulation
- STC 50 (with ceiling)
- Lab test #NGC6015023_R1

CEILING SYSTEM

- Chicago Metallic tee-bar suspension grid
- ROCKFON stone wool ceiling panels - optimized for sound absorption
- Noise control measures for noise flanking paths through lights, grilles, diffusers - may be required

WALL ASSEMBLY

- 5/8" gypsum board (type X) - 1 layer
2 layers other side
- 3-5/8" steel studs (25 gauge) spaced 16" on center
- 3" thick ROXUL AFB Semi-Rigid Batt Insulation
- STC 50 (lab test #TL-93-333)

Caulk gypsum board at bottom of wall (both sides)

CONCRETE FLOOR

* The 'sealed install' method for gypsum board plenum barriers is similar to fire-rated wall construction in that it includes cutting the gypsum board to within 1/4" of elements penetrating the plenum barriers. The gaps around penetrating elements, as well as small holes, joints, screw heads, perimeter edges, etc. are ALL taped or caulked/sealed.



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Gypsum Board Plenum Barrier
BEST BLOCKING - STC 50

ORIG. DWG. DATE: 7/22/2017

DWG. BY: JLS

APPROVAL: _____

REV.:

REV. DATE:

SCALE:

1/2" = 1'-0"

DWG. NO.:

STC50GPB