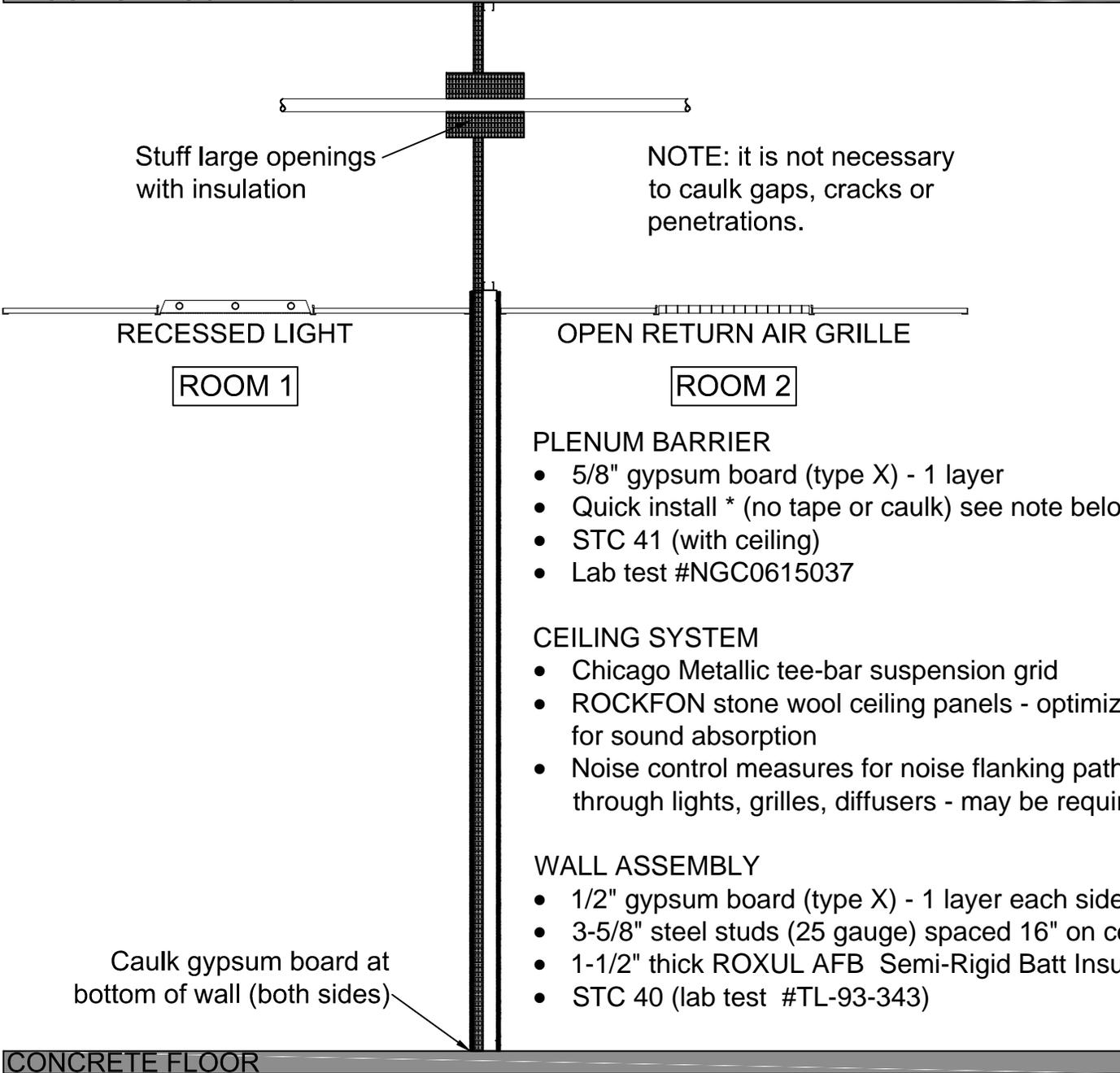


# GYPSUM BOARD PLENUM BARRIER - GOOD BLOCKING STC 40

FLOOR OR ROOF ABOVE



NOTE: it is not necessary to caulk gaps, cracks or penetrations.

Stuff large openings with insulation

RECESSED LIGHT

ROOM 1

OPEN RETURN AIR GRILLE

ROOM 2

## PLENUM BARRIER

- 5/8" gypsum board (type X) - 1 layer
- Quick install \* (no tape or caulk) see note below
- STC 41 (with ceiling)
- Lab test #NGC0615037

## 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

- 1/2" gypsum board (type X) - 1 layer each side
- 3-5/8" steel studs (25 gauge) spaced 16" on center
- 1-1/2" thick ROXUL AFB Semi-Rigid Batt Insulation
- STC 40 (lab test #TL-93-343)

Caulk gypsum board at bottom of wall (both sides)

CONCRETE FLOOR

\* The 'quick install' method for gypsum board plenum barriers uses rectangular cut pieces of gypsum board without cutouts for penetrating elements. Large holes in the plenum barrier around penetrating element are stuffed with stone wool, semi-rigid, batt insulation. Small holes, joints, screw heads, perimeter edges, etc. are NOT taped or caulked/sealed.



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Gypsum Board Plenum Barrier  
GOOD BLOCKING - STC 40

ORIG. DWG. DATE: 7/22/2017

DWG. BY: JLS

APPROVAL: \_\_\_\_\_

REV.:

REV. DATE:

SCALE:

1/2" = 1'-0"

DWG. NO.:

**STC40GPB**