



Airflow Direction Inc.

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ADI TECHNICAL BULLETIN – CONCRETE WALLS → UP TO 8”THICK

→→→ (for walls greater than 8”, STOP & contact ADI)

DISCLAIMER: This bulletin is for information only and is not to be relied upon in making any decisions regarding code issues, which of course should be addressed with your state and local officials, a registered professional engineer, your insurance carrier and any other authority having jurisdiction (AHJ.)

SUBJECT: Concrete block or poured walls and drilling a hole for ADI’s Baulin-tube® Indicator.

DATE: January 28, 2004

REVISED: October 15, 2009

ISSUE: 1) How do you install the ADI unit in a CMU or poured concrete wall and, 2) What do you do when the CMU walls are backfilled with mortar for bond-beams around door frames?

DISCUSSION:

Many applications use CMU (cement masonry unit, also called “block walls”) and/or poured concrete walls. Drilling through an existing CMU wall filled with mortar can take a while, especially if there is rebar in the bond-beam. For existing walls, use a carbide-tipped hole-saw or core-drill.

For new construction, installing a sleeve in the wall prior to filling with mortar or pouring the concrete may be desirable. The following detail describes the use of a sleeve. The sleeve dimensions are listed below for the particular application. The legend for sleeve type EMT is Electrical Metallic Tubing, which can be procured at an electrical supply house.

CMU or POURED CONCRETE APPLICATION → for walls 8” or less. If greater than 8”, STOP and contact ADI	NOMINAL SLEEVE SIZE
Visual-Only Units (walls 8”or less)	2-1/2” EMT (2-7/8” Carbide tip Hole Saw)
Visual-Only Units with FireStrap® * (walls 8”or less)	3-1/2” EMT (4” Carbide tip Hole Saw)
Visual-Plus-Alarm Units ** (walls 8”or less)	2-1/2” EMT (2-7/8” Carbide tip Hole Saw)

* NOTE: FOR FIRE-RATED WALLS USING A WALL SLEEVE AND FIRESTRAP®, SEE ADI’S TECHNICAL BULLETIN TITLED: “ADI & FIRE-RATED WALLS.”

** REQUIRES ELEC. BOX FOR LOW VOLTAGE WIRE. CONTACT ADI.

END