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ADI TECHNICAL BULLETIN – FIRE RATED WALLS

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: Fire-Rated Walls & ADI's Baulin-tube® Indicator.

DATE: July 30, 2009

ISSUE: Does ADI offer a solution for its indicators that penetrate a fire-rated wall?

DISCUSSION:

Regarding the fire-rated wall, ADI offers a detail that is common for penetrations through a wall such as non-metallic plumbing waste & vent lines. The detail uses a sleeve in the wall and an intumescent wrap by 3M™ called the FireStrap™.

This detail may not be needed however, since the wall may not be required to be fire-rated. For example, in Existing HealthCare Occupancies, in the Eleventh Edition of the NFPA 101, Life Safety Code® Handbook*, section 19.3.6.2.4, if the smoke compartment is protected throughout by an approved, supervised sprinkler system, the corridor walls do not have to be fire-rated.

Further references state that an approved sprinklered HealthCare smoke compartment wall may need not have a fire resistance rating and only resist the passage of smoke as discussed in Fire and Life Safety in Health Care Facilities**, section 16.2.3.1 "Protection of Corridors, Sprinklered Construction .

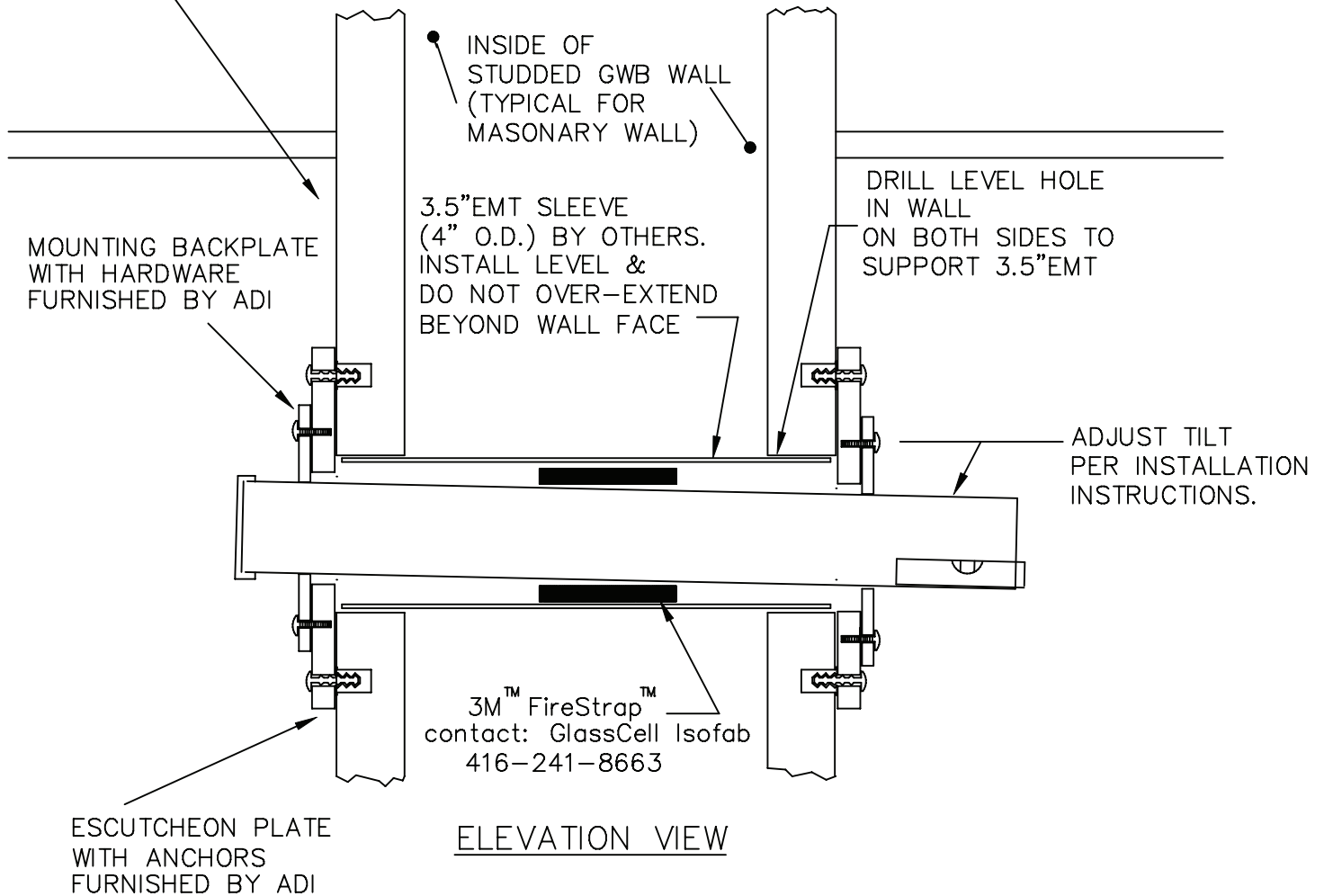
Regarding the transfer of smoke through openings in healthcare patient sleeping room walls, please see: ADI'S TECHNICAL BULLETIN - SMOKE TRANSMISSION THROUGH OPENINGS IN HEALTHCARE PATIENT SLEEPING ROOM WALLS

* *NFPA 101 Life Safety Code® HANDBOOK*, Ron Cote, P.E., Gregory E. Harrington, P.E., Eleventh Edition, ISBN 0-87765-448-4 © 2009 is a publication of the National Fire Protection Association, One Batterymarch Park, Quincy, MA 0269

** *Fire and Life Safety in Health Care Facilities*, Second Edition, Fischer, Gardner, Klein, Lathrop, ISBN-13: 978-0-87765-744-6 © 2006 is a publication of the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02169

END

BE SURE TO ORDER ESCUTCHEON PLATES.
 CAUTION! BE SURE SLEEVE IS INSTALLED TO ALLOW THE 6" DIA ESCUTCHEON PLATE TO CLEAR DOOR HEADER AND CEILING.



GENERAL NOTE: 4" O.D. HOLE REQUIRED. FIELD INSTALL THE 3.5" EMT SLEEVE (4" O.D.) (BY OTHERS) LEVEL. INSTALL THE ADI TUBE AND FIRESTRAP(R) AND FOLLOW THE GENERAL ADI INSTALLATION INSTRUCTIONS PROVIDED WITH THE UNIT.

FIRESTOP NOTE:
 THE FIRESTOP IS USED ON PLUMBING AND OTHER NON-METALLIC PENETRATIONS. TO PROCURE THE 3M FireStrap(R), CONTACT GLASSCELL ISO FAB INC., TEL: 416-241-8663 OR FAX: 416-241-0306
 3M(R) & FIRESTRAP(R) are registered trademarks of the 3M Company.

DWG: DETAIL-FIREWALL.DWG