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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 installation and code issues. The publications cited below may be subject to change without notice. Therefore, it is imperative any question about a fire-rated wall application be addressed with your state and local officials, a registered architect, a professional engineer, your insurance carrier and any other authority having jurisdiction (AHJ).

SUBJECT: Fire-Rated Walls & the BALL-IN-THE-WALL® Indicator.

DATE: September 24, 2013

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

DISCUSSION:

Regarding the fire-rated wall, ADI offers a 3M® Engineering Judgment detail that is common for penetrations through a wall such as non-metallic plumbing waste & vent lines. The detail (attached) uses a sleeve in the wall and an intumescent wrap and sealant by 3M®. **PLEASE NOTE: The detail is a guide only. Prior to proceeding with an installation approach, you must obtain an Engineering Judgment from 3M® that is job specific and location specific.**

On a side note, there may be instances where 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 wall does not have to be fire-rated. *Consult with your Architect, Engineer and AHJ!*

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. *Consult with your Architect, Engineer and AHJ!*

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

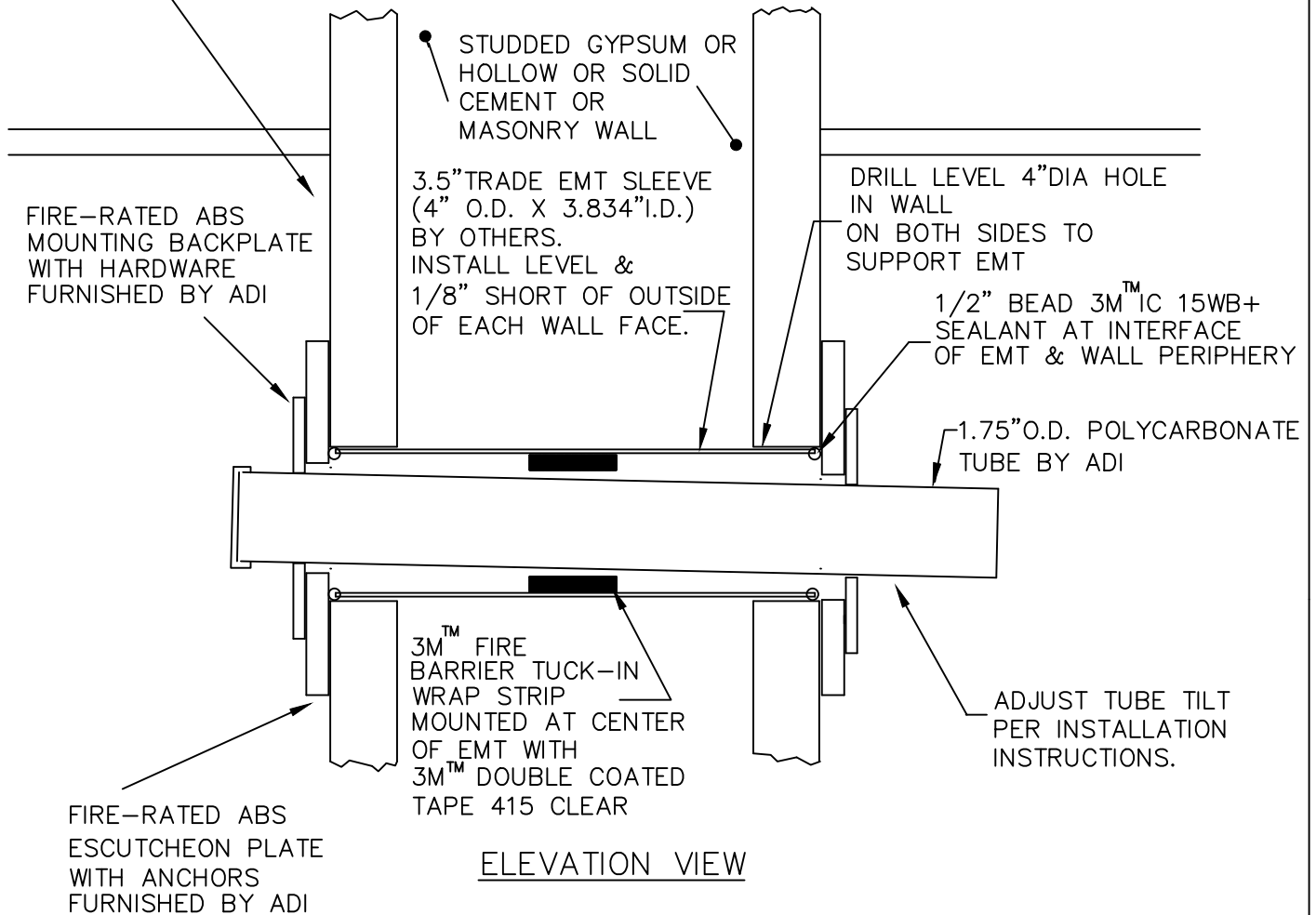
* *NFPA 101 Life Safety Code® HANDBOOK*, Ron Cote, P.E., Gregory E. Harrington, P.E., Twelfth Edition, ISBN 978-1-616-65129-9 © 2011 is a publication of the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02169

** *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

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

NOT FOR INSTALL
SEE NOTICE BELOW



IMPORTANT NOTICE: THIS DETAIL IS FOR GUIDANCE ONLY AND IS NOT TO BE RELIED UPON FOR INSTALLATION. FOR JOB-SPECIFIC INSTALLATION, A JOB-SPECIFIC "ENGINEERING JUDGMENT BASED ON 3MTM SYSTEM W-L-2551" MUST BE OBTAINED DIRECTLY FROM 3MTM OR VIA AIRFLOW DIRECTION INC. AND APPROVED FOR YOUR PARTICULAR LOCATION/INSTALLATION WITH THE AUTHORITY HAVING JURISDICTION. PLEASE CONSULT AS NEEDED, E.G., WITH YOUR STATE AND LOCAL AUTHORITIES HAVING JURISDICTION, A REGISTERED FIRE PROTECTION PROFESSIONAL ENGINEER, INSURANCE CARRIER, ETC.