

MARKETING BULLETIN

REPAIRING DAMAGE/DEFECTS IN A 2-HOUR AREA SEPARATION WALL SYSTEM

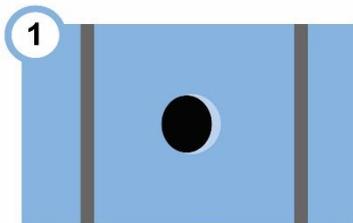
The 2-hour fire rated Area Separation Wall System was developed over 50 years ago as a way to economically protect from fire two (2) separate units in apartments, townhomes, condominiums and duplexes. At times during the installation of the ASW system, mistakes are made or damage occurs to this assembly - and for that reason American Gypsum performed a 2-hour full scale fire test per ASTM E119, with repairs to defects in this wall system. NOTE - only American Gypsum's 1" M-Bloc Shaft Liner and 1" M-Glass Shaft Liner panels are approved for use in fire test report - WFCi 19046.

Below you will find one of the defects that was built into American Gypsum's Area Separation Wall System (UL U375), and how to successfully repair it in the field to ensure that the 2-hour fire rating is preserved.

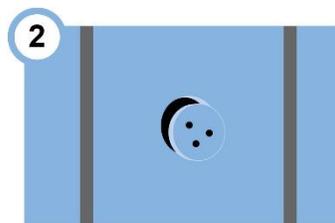
DAMAGE OR DEFECT:	UP TO 6" PENETRATION THROUGH SHAFT LINER PANELS
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ISSUE: There are times on the project where large penetrations occur through both layers of the 1" Shaft Liner panels (6" in diameter max.). A penetration like this voids the 2-hour fire rating.

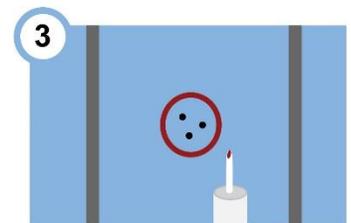
- REPAIR:**
- ❖ Cut two (2) pieces of the 1" Shaft Liner about the same size of the penetration through the ASW System (maximum 1/4" less than the full diameter of the penetration)
 - ❖ Laminate the two (2) Shaft Liner plugs to each other with 3M Fire Barrier Sealant CP 25 WB+ fire caulk, and then fasten together using three (3) 1-1/2" Type G laminating screws
 - ❖ Coat inside of the penetration and the edges of the Shaft Liner plugs with fire caulk, and place in the penetration and then apply fire caulk around perimeter of plugs
 - ❖ Center a piece of 5/8" FireBloc Type X wallboard over the Shaft Liner plugs (minimum 12" in height by cavity width), applying fire caulk to back of this drywall patch (form of a "X")
 - ❖ Attach corners of patch to metal H-studs with 1-1/4" drywall screws, and then along top and bottom edges of patch, apply 1-1/2" Type G laminating screws, 6" on center to secure drywall patch to Shaft Liner panel. Once in place, apply fire caulking around its perimeter
 - ❖ Duplicate drywall patch on opposite side of wall



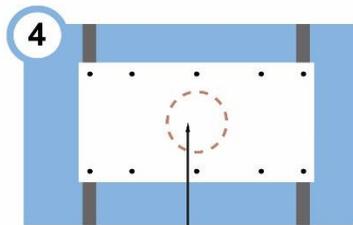
1 Up to a 6" penetration through the ASW system



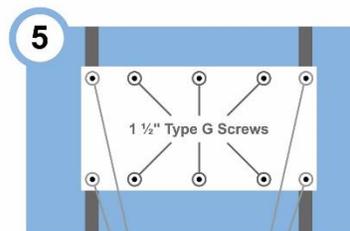
2 Insert drywall patch into the penetration of the ASW system



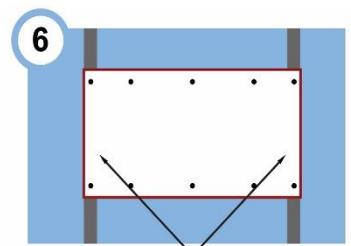
3 Apply 3M Fire Barrier Sealant CP 25WB+ fire caulk to the perimeter of the drywall patch



4 Center a piece of 5/8" FireBloc Type X wallboard over the drywall patch and secure with screws



5 1 1/4" Drywall Screws



6 Apply to perimeter of the drywall patch, 3M Fire Barrier Sealant CP 25WB+ fire caulk

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