

# 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.

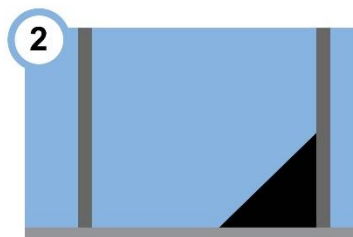
<b>DAMAGE OR DEFECT:</b>	<b>CORNER DAMAGE TO SHAFT LINER PANELS</b>
--------------------------	--------------------------------------------

**ISSUE:** At times during installation of 1" Shaft Liner panels into the ASW framing system, a corner of a panel will sustain damage which is ignored or not detected by the framing crew. This damage to a 1" Shaft Liner panel will compromise the integrity of the 2-hour fire rating.

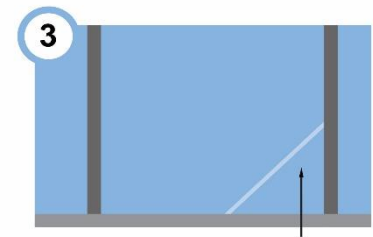
- REPAIR:**
- ❖ Cut out the damaged corner of 1" Shaft Liner panel (no greater than 7" in height & width)
  - ❖ Cut out a replacement piece of 1" Shaft Liner to fill the voided area, and insert into the ASW framing system. There is an allowance for up to a 1/2" gap between the replacement piece and the originally installed 1" Shaft Liner panel. It may be necessary to flatten the C-Runner bottom track to insert replacement piece, and then push track back into place.
  - ❖ Fill any gap - up to 1/2", with 3M Fire Barrier Sealant CP 25 WB+ fire caulk
  - ❖ Place a piece of 5/8" FireBloc Type X wallboard (minimum 12" X 12") over the 1" Shaft Liner corner patch, applying fire caulk to back of this drywall patch (form of a "X")
  - ❖ Attach one (1) side of the drywall patch to the vertical H-stud with 1-1/4" drywall screws, with bottom drywall screw placed approximately 2-1/2" above bottom of the wall
  - ❖ Along top and bottom edges of this patch, apply 1-1/2" Type G laminating screws, spaced 6" on center to secure drywall patch to Shaft Liner panel
  - ❖ Once drywall patch is in place, apply fire caulking around its perimeter



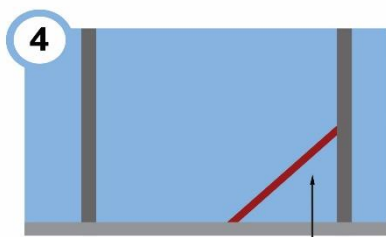
1  
Damage to corner of Shaft Liner panel



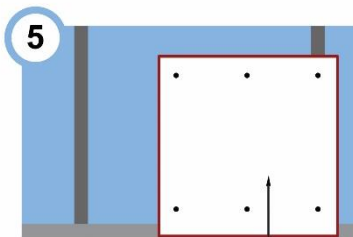
2  
Cut out and remove damaged area (no more than 7" in width & height)



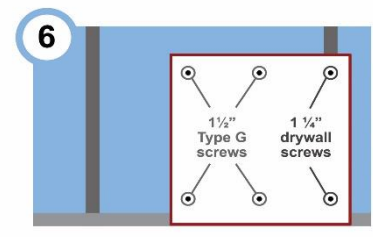
3  
Insert Shaft Liner patch into the voided area, with no more than a 1/2" gap



4  
Fill gap with 3M Fire Barrier Sealant CP 25WB+ fire caulk



5  
Place drywall patch over area, attached to H-Stud (minimum 12" x 12")



6  
Apply 3M Fire Barrier Sealant CP 25WB+ fire caulk to perimeter

### THE PRODUCTS YOU NEED FROM THOSE YOU TRUST

FireBloc® | M-Bloc® | LightRoc® | M-Glass®

American Gypsum Company LLC  
5960 Berkshire Lane, Suite 800, Dallas, TX 75225  
(800) 545-6302

