Envelope2000® Metal Composite Material (MCM)



Fabrication Training Checklist					
In order to properly fabricate and assemble Envelope 2000® metal composite material, the following guidelines should be read, understood and followed. This list does not include all of the procedures and recommendations given by Citadel Architectural Products, Inc., only a representative set of major points for instruction. Be sure to follow completely all guidelines set forth in the Fabrication Manual.					
Receiving & Material Storag shipping damage must be a panels to be stored in a dry	noted on Bill Of Lading and repor	rted to manufacturer within 48 hours			
Finish Directionality					
arrow on pvc must point in	same direction for all metallics a	nd anodized finishes			
Panel Cutting ☐ can be performed using tab	ole saw, CNC machine, panel sa	w, or portable circular saw			
Cutting Blade (table saw): Drake # L1A250, 10" dia 5/8" arbor, 60 tooth triple chip pattern	Cutting Bit (CNC machine): Onsrud # 63-620, 1/4" 18,000 RPM Feed Rate=315 in/min Depth=0.01"				
□ panels <u>may not be sheared</u>	mmended for all cutting operation s pull into the face aluminum	ns			
Panel Routing ☐ can be performed using ha	nd-held router, table saw (stock	feeder required), or CNC machine			
Routing Blade (table saw): Drake # 265054, 6-1/2" dia 5/8" arbor, 8 tooth, 98° V-groove pattern	Routing Bit (CNC machine): AXYZ # 70018 2mm 110° 22,000 RPM Feed Rate=350 in/min	Routing Bit (hand-held router): Drake # ALUCO1/2 101°, 1/2" shank, 0.84" cut dia Feed Rate=300 in/min			
□ to provide crisp bend, all co	ore material to be removed comp	oletely, aluminum slightly scored on back			

Fabricator Representative	 Date	Training Coordinator Citadel Architectural Products,	Date
·	also been pro	tion Manual as well as the above gu perly trained by Citadel Architectura this material.	
Sealant □ to be used at all corners (RI	국 only) ======		
Stiffeners recommended for panels ex	ceeding 3 fee	et in both directions (or as required b	y engineer)
Pop Rivets ☐ 2 weep holes per panel to b	e 1/4" x 3/4",	located 2" to 4" from panel end (RS	only)
		n angles to be sealed (RR only) and on flange of bend line or corner (ele	•
Pop Rivets ☐ spaced no more than 16" ap ☐ remove pvc from return legs			
Attaching Extrusions □ RR System: extrusions can RS System: extrusions mus □ de-burr cut end as needed	•	corner by 2" to 3" ay into the corner and be mitered	
Panel Curving □ performed with a pyramid ro □ minimum recommended rac □ RR System: return legs dov RS System: panels made in	lius is 6" @ 90 etailed and fo	lded, extrusions pre-curved	
 □ bend line should be located □ 2" added to face dimension □ to prevent crazing at bend, □ skins thicker than .024" may 	of panel equa temperature s	als flat panel size hould be above 70° F	