# Fabrication Training Checklist



PAC-4000

In order to properly fabricate and assemble PAC-4000 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, only a representative set of major points for instruction. <u>Be sure to follow completely all guidelines set forth in the Fabrication Manual.</u>

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shipping damage must be noted on Bill Of Lading and reported to manufacturer within 48 hours
panels to be stored in a dry, well ventilated area

## **FINISH DIRECTIONALITY**

☐ arrow on pvc must point in same direction for all metallics and anodized finishes

#### **PANEL CUTTING**

can be performed using table saw, CNC machine, panel saw, or portable circular saw				
Cutting Blade (table saw):	Cutting Bit (CNC machine):			
Drake # L1A250, 10" dia	Onsrud # 63-620, 1/4"			
5/8" arbor, 60 tooth	18,000 RPM			
triple chip pattern	Feed Rate=315 in/min			
	Depth=0.01"			

- ☐ carbide tipped blades recommended for all cutting operations
- □ panels may not be sheared
- $\hfill \square$  cutting blade should always pull into the face aluminum

# **PANEL ROUTING**

☐ can be performed using hand-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

Drake # ALUCO1/2

101°, 1/2" shank, 0.84" cut dia

Feed Rate=350 in/min

□ to provide crisp bend, all core material to be removed completely, aluminum slightly scored on back

### **PANEL BENDING**

bend line should be located 1-1/32" away from panel edge
2" added to face dimension of panel equals flat panel size
to prevent crazing at bend, temperature should be above $70^{\circ}$
skins thicker than .024" may require additional direct heating

PA	ANEL CURVING								
	performed with a pyramid roller, hinged table, press brake, or bump press								
	minimum recommended radius is 6" @ 90°, 12" @ 180°								
	RR System: return legs dovetailed	RR System: return legs dovetailed and folded, extrusions pre-curved							
	RS System: panels made in 3 pcs, extrusions pre-curved								
AT	TACHING EXTRUSIONS								
	RR System: extrusions can stop short of corner by 2" to 3" RS System: extrusions must go all the way into the corner and be mitered								
	de-burr cut end as needed								
PC	OP RIVETS								
	spaced no more than 16" apart with 2 rivets, 1" to 3" from corner								
	remove pvc from return legs before installing pop rivets								
CO	DRNER REINFORCEMENT								
	in the corners of the folded pan, a	uminum angles	s to be sealed (RR only) and riveted to reinforce	e joint					
	aluminum angle to be sealed and riveted on flange of bend line or corner (elevation corner) panels								
PC	OP RIVETS								
	2 weep holes per panel to be 1/4"	x 3/4", located :	2" to 4" from panel end (RS only)						
ST	TIFFENERS								
	recommended for panels exceedi	ng 3 feet in botl	h directions (or as required by engineer)						
SE	ALANT								
	to be used at all corners (RR only)								
			well as the above guidelines regarding key real the tools and methods used to properly fabri						
Fal	bricator Representative	Date	Training Coordinator Citadel Architectural Products	Date					
Fal	bricator Company								









