

TABLE 1 - FASTENER MATRIX FOR ATTACHING FURRING TO BUILDING

FURRING SYSTEM MATRIX											
WALL	SHEATHING	EXTERIOR		STRU	NON-STRUCTURAL FURRING						
CONSTRUCTION	THICKNESS	INSULATION	WOOD FURRING	HAT/Z (CHANNEL (20-1	.8 GA)	HAT/Z CHANNEL (16GA)	WOOD FURRING		MESH	/WRAP
CONSTRUCTION	I HICKNESS	THICKNESS	1-1/2"	7/8"	1-1/4"	1-1/2"	7/8" 1-1/4" 1-1/2"	3/8"	3/4"	3/8"	3/4"
WOOD STUD	3/8" - 3/4"	0"-3"	STARBORN STRUCTURAL F19 / STRUCTURAL F23 / STRUCTURAL F23 STAINLESS STARBORN STRUCTURAL F19 /	STARB	ORN STRUCTURAL	Н19	STARBORN STRUCTURAL H19				
		4"	STRUCTURAL F23								
STEEL STUD (20-16 GA)	3/8" - 3/4"	0"	STARBORN STRUCTURAL SDP18 SELF-DRILL	STARBO	STARBORN STRUCTURAL SDP18 SELF-DRILL		STARBORN STRUCTURAL SDP18 SELF-DRILL				
CMU BLOCK \	CMU BLOCK WALL 0"		TAPCON FLAT HEAD	TAPCON FLAT HEAD/ TAPCON HEX HEAD		TAPCON FLAT HEAD/ TAPCON HEX HEAD					

NOTES:

- ALL RAINSCREEN ELEMENTS, INCLUDING FURRING STRIPS AND SHEATHING, MUST BE SECURELY FASTENED TO THE BUILDING STRUCTURE IN ACCORDANCE WITH BUILDING CODE BEFORE THE CLADDING BOARD CAN BE ATTACHED. A PROFESSIONAL ARCHITECT OR ENGINEER MAY BE CONSULTED TO DETERMINE THE BEST FASTENING PATTERNS.
- FOR MARINE APPLICATIONS, WOOD FURRING WITH F23 STAINLESS GRADE #316 MUST BE USED
- FOR WOOD FRAMING: FASTENERS MUST HAVE 1" OF THREAD PENETRATION INTO THE BUILDING STRUCTURE NOT INCLUDING THE FURRING STRIP, OR 1" OF TREAD PENETRATION INTO A 2X FURRING STRIP THAT IS STRUCTURALLY
- FOR METAL FRAMING: FASTENERS MUST PENETRATE A MINIMUM OF 3 THREADS PAST THE FURRING STRIP.
- FOR BUILDING WRAP, MESH OR NET RAINSCREEN: FASTENERS MUST HAVE 1" OF THREAD PENETRATION INTO THE BUILDING STRUCTURE NOT INCLUDING THE BUILDING WRAP, MESH OR NET.
- FOR EXTERIOR INSULATION: FURRING STRIPS MUST BE STRUCTURALLY CONNECTED BACK TO THE BUILDING STRUCTURE. WOOD FURRING OVER EXTERIOR INSULATION MUST BE 1.5" THICK. BUILDING WRAP, MESH OR NET FURRING
- WHEN FASTENING HAT/Z CHANNELS WITH STRUCTURAL SCREWS, PREDRILLING WITH A 5/16" DRILL BIT MADE FROM HSS, COBALT OR TITANIUM FINISH IS RECOMMENDED.
- REFER TO THE SIMPLICLAD APP ON STARBORNINDUSTRIES.COM FOR ADDITIONAL INFORMATION INCLUDING SUGGESTED SCREW LENGTHS
 - HATCH INDICATES: WE HAVE NOT YET IDENTIFIED OR DEVELOPED A STRUCTURAL FASTENER FOR ATTACHING THE FURRING TO THE BUILDING. CONSIDER USING METAL FURRING OR NON-STRUCTURAL FURRING.
 - GRAY INDICATES: STRUCTURAL FASTENERS ARE NOT NECESSARY FOR NON STRUCTURAL FURRING. REFER TO NON-STRUCTURAL FURRING PORTIONS OF CLADDING DESIGN MATRIX.

FASTENER KEY

STRUCTURAL F19 - FLAT HEAD, 0.19" SHANK FASTENER AVAILABLE IN A VARIETY OF LENGTHS. REFER TO STARBORN STRUCTURAL FASTENER PRODUCTS.

STRUCTURAL F23 - FLAT HEAD, 0.23" SHANK FASTENER AVAILABLE IN A VARIETY OF LENGTHS. REFER TO STARBORN STRUCTURAL FASTENER PRODUCTS.

STRUCTURAL H19 - HEX HEAD, 0.19" SHANK FASTENER AVAILABLE IN A VARIETY OF LENGTHS. REFER TO STARBORN STRUCTURAL FASTENER PRODUCTS.

STRUCTURAL F23 STAINLESS - FLAT HEAD, GRADE #316 STAINLESS, 0.23" SHANK FASTENER AVAILABLE IN A VARIETY OF LENGTHS. REFER TO STARBORN STRUCTURAL FASTENER PRODUCTS.

STRUCTURAL SDP18 SELF DRILL - PAN HEAD, SELF-DRILL, #14 FASTENER AVAILABLE IN A VARIETY OF LENGTHS. REFER TO STARBORN STRUCTURAL FASTENER PRODUCTS.

TAPCON FLAT HEAD - REFER TO https://www.tapcon.com/Products/Genuine-Tapcon-Screw-Anchors/Genuine-Tapcon/

TAPCON HEX HEAD - REFER TO https://www.tapcon.com/Products/Genuine-Tapcon-Screw-Anchors/Genuine-Tapcon/

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TABLE 2 - FASTENER MATRIX FOR ATTACHING 3/4" COMPOSITE BOARDS AS CLADDING

3/4" COMPOSITE BOARD - SURFACE FASTENING														
WALL	SHEATHING	EXTERIOR			STRUCTURA	NON-STRUCTURAL FURRING								
CONSTRUCTION	THICKNESS	INSULATION	WOOD FURRING	HAT/Z CHANNE			CHANNEL (16GA			FURRING	l i	/WRAP		
		THICKNESS	1-1/2"	7/8" 1-1/4"	1-1/2"	7/8"	1-1/4"	1-1/2"	3/8" STARBORN CAP-TOR xd	3/4"	3/8" STARBORN CAP-TOR xd	3/4"		
	3/8" -5/8"	0"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2", 2-1/2",	STARBORN CAP-TOR	vd METAL 1-1/2"	STARBORN CAP-TOR xd	STARRORN CAP-TO	R vd METAL 1-5/8"	EPOXY/STAINLESS 2-3/4"		EPOXY/STAINLESS 2-3/4"			
	3/4"	0"	2-3/4"	STARBORN CAP-TOR xd METAL 1-1/2"		METAL 1-1/2"	STARBORN CAP-TOR xd METAL 1-5/8"							
	3/8" - 3/4"	1/2"-4"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2", 2-1/2", 2-3/4"	STARBORN CAP-TOR	xd METAL 1-1/2"	STARBORN	CAP-TOR xd METAL 1	-5/8"						
	3/8" -1/2"	0"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2", 2-1/2" STARBORN CAP-TOR vd			D A AFTAL 4 F /0!!								
STEEL STUD	5/8" - 3/4"	0"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2", 2-1/2", 2-3/4"	STARBORN CAP-TOR	STARBORN CAP-TOR xd METAL 1-1/2"		STARBORN CAP-TOR xd METAL 1-5/8"							
	3/8" - 3/4"	1/2"-3"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2", 2-1/2", 2-3/4"	STARBORN CAP-TOR	xd METAL 1-1/2"	STARBORN CAP-TOR xd METAL 1-5/8"								
CMU BLOCK	(WALL	0"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2"	STARBORN CAP-TOR xd METAL 1-1/2"		STARBORN CAP-TOR xd METAL 1-5/8" STARBORN CAP-TOR xd METAL 1-5/8"								
cimo sesen		1/2"-4"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2"			STARBORN CAP-TOR xd METAL 1-5/8"								
					3	/4" COMPOSITE	BOARD - PR	O PLUG						
30/011	1	EXTERIOR							NON-STRUCTURAL FURRING					
WALL	SHEATHING				STRUCTURAL									
WALL CONSTRUCTION	SHEATHING THICKNESS	INSULATION	WOOD FURRING	HAT/Z CHANNE	EL (20-18GA)	HAT/Z	CHANNEL (16GA			FURRING	MESH	/WRAP		
			WOOD FURRING 1-1/2"		EL (20-18GA)		CHANNEL (16G/ 1-1/4"	A) 1-1/2"	WOOD 3/8"			/WRAP 3/4" STARBORN PRO PLUG DECK		
		INSULATION	1-1/2"	HAT/Z CHANNE	EL (20-18GA)	HAT/Z	1-1/4"	1-1/2"		FURRING 3/4"	MESH	3/4"		
	THICKNESS	INSULATION	1-1/2" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2",	HAT/Z CHANNE 7/8" 1-1/4" STARBORI	EL (20-18GA)	HAT/Z	1-1/4" STARBORN PRO PLUG DECK METAL	1-1/2" STARBORN PRO PLUG DECK METAL	3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4" 2"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2",	MESH 3/8" STARBORN PRO PLUG DECK	3/4" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2",		
	3/8" - 7/16"	INSULATION THICKNESS 0"	1-1/2" STARBORN PRO PLUG DECK	HAT/Z CHANNE 7/8" 1-1/4" STARBORI	EL (20-18GA) 1-1/2" N PRO PLUG DECK	HAT/Z	1-1/4" STARBORN PRO	1-1/2" STARBORN PRO	3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4" 2"	STARBORN PRO PLUG DECK EPDXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK	MESH 3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2",	3/4" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK		
CONSTRUCTION	THICKNESS 3/8" - 7/16" 1/2" - 5/8"	INSULATION THICKNESS 0"	1-1/2" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2", 2-3/4", 3"	HAT/Z CHANNE 7/8" 1-1/4" STARBORI	EL (20-18GA) 1-1/2" N PRO PLUG DECK L 410SS 1-1/2"	HAT/2 7/8"	1-1/4" STARBORN PRO PLUG DECK METAL	1-1/2" STARBORN PRO PLUG DECK METAL 410SS 1-5/8"	3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK	MESH 3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK	3/4" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK		
CONSTRUCTION	THICKNESS 3/8" - 7/16" 1/2" - 5/8" 3/4"	INSULATION THICKNESS 0° 0° 0°	1-1/2" - STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2",	HAT/Z CHANNE 7/8" 1-1/4" STARBORI METAL STARBORN PRO PLU 410SS 1-	EL (20-18GA) 1-1/2" N PRO PLUG DECK L 410SS 1-1/2" UG DECK METAL 1/2"	HAT/2 7/8"	1-1/4" STARBORN PRO PLUG DECK METAL 410SS 1-1/2"	1-1/2" STARBORN PRO PLUG DECK METAL 410SS 1-5/8"	3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK	MESH 3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK	3/4" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK		
CONSTRUCTION	THICKNESS 3/8" - 7/16" 1/2" - 5/8" 3/4" 3/8" - 3/4"	INSULATION THICKNESS 0° 0° 0°	1-1/2" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK	HAT/Z CHANNE 7/8" 1-1/4" STARBORN METAI STARBORN PRO PLU 410SS 1-	EL (20-18GA) 1-1/2" N PRO PLUG DECK L 410SS 1-1/2"	HAT/2 7/8"	1-1/4" STARBORN PRO PLUG DECK METAL 410SS 1-1/2"	1-1/2" STARBORN PRO PLUG DECK METAL 410SS 1-5/8"	3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK	MESH 3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK	3/4" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK		
WOOD STUD	THICKNESS 3/8" - 7/16" 1/2" - 5/8" 3/4" 3/8" - 3/4" 3/8" - 5/8"	INSULATION THICKNESS 0° 0° 0°	1-1/2" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2"	HAT/Z CHANNE 7/8" 1-1/4" STARBORI METAI STARBORN PRO PLU 410SS 1- STARBORN PRO PLU 410SS 1- STARBORN PRO PLU 410SS 1-	EL (20-18GA) 1-1/2" N PRO PLUG DECK L 410SS 1-1/2" UG DECK METAL 1/2" N PRO PLUG DECK L 410SS 1-1/2"	HAT/2 7/8" STARBORN PRO	1-1/4" STARBORN PRO PLUG DECK METAL 4: STARBORN PRO PLUG DECK METAL 4: STARBORN PRO PLUG DECK METAL 4: PLUG DECK METAL 4:	1-1/2" STARBORN PRO PLUG DECK METAL 410SS 1-5/8" STARBORN PRO PLUG DECK METAL 410SS 1-5/8"	3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK	MESH 3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK	3/4" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK		
WOOD STUD	THICKNESS 3/8" - 7/16" 1/2" - 5/8" 3/4" 3/8" - 3/4" 3/8" - 5/8" 3/4" 3/8" - 5/8"	INSULATION THICKNESS 0" 0" 1/2"-4" 0"	1-1/2" - STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2"	HAT/Z CHANNE 7/8" 1-1/4" STARBORN PRO PLI 410SS 1- STARBORN PRO PLI 410SS 1- STARBORN PRO PLI 410SS 1- STARBORN PRO PLI 510B 1	EL (20-18GA) 1-1/2" N PRO PLUG DECK L 410SS 1-1/2" UG DECK METAL 1/2" N PRO PLUG DECK L 410SS 1-1/2"	HAT/2 7/8" STARBORN PRO	1-1/4" STARBORN PRO PLUG DECK METAL 410SS 1-1/2" PLUG DECK METAL 4: STARBORN PRO PLUG DECK METAL 410SS 1-1/2"	1-1/2" STARBORN PRO PLUG DECK METAL 410SS 1-5/8" STARBORN PRO PLUG DECK METAL 410SS 1-5/8"	3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK	MESH 3/8" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK	3/4" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-1/2", 2-3/4", 3" STARBORN PRO PLUG DECK EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK		

NOTES

- THE CONNECTIONS DISPLAYED ON THIS TABLE ARE STRICTLY FOR FASTERING THE CLADDING BOARD TO THE RAINSCREEN. ALL RAINSCREEN. ALL RAINSCREEN ELEMENTS, INCLUDING FURRING STRIPS AND SHEATHING, MUST BE SECURELY FASTERIND TO THE BUILDING STRUCTURE IN ACCORDANCE WITH BUILDING CODE BEFORE THE CLADDING BOARD TO THE RAINSCREEN. ALL RAINSCREEN.
- THE CONNECTIONS LISTED ON THIS TABLE DO NOT SERVE AS A REPLACEMENT FOR THIRD PARTY LAB TESTING, PLEASE REFER TO CLADDING BOARD MANUFACTURER'S INSTRUCTIONS FOR THE PROPER NSTALLATION REQUIREMENTS INCLUDING SPECIFICATIONS FOR SCREW SPACING, EDGE/END DISTANCES, AND GAPPING.
- FOR MARINE APPLICATIONS, WOOD FURRING WITH 316 STAINLESS STEEL FASTENERS MUST BE USED
- FOR WOOD FRAMING: FASTENERS MUST HAVE 1" OF THREAD PENETRATION INTO THE BUILDING STRUCTURE NOT INCLUDING THE FURRING STRIP, OR 1" OF TREAD PENETRATION INTO A 2X FURRING STRIP THAT IS STRUCTURALLY CONNECTED BACK TO THE BUILDING STRUCTURE.
- FOR METAL FRAMING: FASTENERS MUST PENETRATE A MINIMUM OF 3 THREADS PAST THE FURRING STRIP.
- FOR BUILDING WRAP, MESH OR NET RAINSCREEN: FASTENERS MUST HAVE 1" OF THREAD PENETRATION INTO THE BUILDING STRUCTURE NOT INCLUDING THE BUILDING WRAP, MESH OR NET.
- FOR EXTERIOR INSULATION: FURRING STRIPS MUST BE STRUCTURALLY CONNECTED BACK TO THE BUILDING STRUCTURE. WOOD FURRING OVER EXTERIOR INSULATION MUST BE 1.5" THICK. BUILDING WRAP, MESH OR NET FURRING SHOULD NOT BE USED WITH EXTERIOR INSULATION.
- REFER TO THE SIMPLICLAD APP ON STARBORNINDUSTRIES.COM FOR ADDITIONAL INFORMATION.

- HATCH INDICATES: NOT A RECOMMENDED CONNECTION AS WE HAVE NOT YET IDENTIFIED OR DEVELOPED A FASTENER FOR THIS CONFIGURATION

- GRAY INDICATES: WE HAVE NOT YET IDENTIFIED OR DEVELOPED A FASTENER FOR ATTACHING THE FURRING TO THE BUILDING. SEE FIGURE 4.

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TABLE 3 - FASTENER MATRIX FOR ATTACHING 1" COMPOSITE BOARDS AS CLADDING

1" COMPOSITE BOARD - SURFACE FASTENING													
	1	EXTERIOR		5	TRUCTURA	L FURRING		NON-STRUCTURAL FURRING					
WALL	SHEATHING	INSULATION	WOOD FURRING	HAT/Z CHANNEL		HAT/Z CHANNEL (WOOD FURRING			I/WRAP	
CONSTRUCTION	THICKNESS	THICKNESS	1-1/2"	7/8" 1-1/4"	1-1/2"	7/8"	1-1/4"	1-1/2"	3/8"	3/4"	3/8"	3/4"	
	3/8" - 7/16"	0"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2", 2-1/2",	STARBORN CAP-TOR xd METAL 1-1/2"		STARBORN CAP-TOR xd METAL 1-5/8"			STARBORN CAP-TOR xd EPOXY/STAINLESS 2-3/4"		STARBORN CAP-TOR xd EPOXY/STAINLESS 2-3/4"		
WOOD STUD	1/2" - 3/4"	0"	2-3/4"	57 MBGMY GW TONX	u W.E. // E. I // E	37711301111	ori Tonnamente 1	370					
	3/8" - 3/4"	1/2"-4"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2", 2-1/2", 2-3/4"	STARBORN CAP-TOR x	d METAL 1-1/2"	STARBORN	CAP-TOR xd METAL 1	5/8"					
STEEL STUD	3/8" - 3/4"	0"-3"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2", 2-1/2", 2-3/4"	STARBORN CAP-TOR x	d METAL 1-1/2"	STARBORN CAP-TOR xd METAL 1-5/8"							
CMU BLOC	K MVII	0"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2"	STARBORN CAP-TOR x	d METAL 1-1/2"	STARBORN	CAP-TOR xd METAL 1	5/8"					
CIVIO BEOC	K WALL	1/2"-4"	STARBORN CAP-TOR xd EPOXY/STAINLESS 2"			STARBORN CAP-TOR xd METAL 1-5/8"							
	1" COMPOSITE BOARD - PRO PLUG												
	1	EXTERIOR		S	TRUCTURA	L FURRING		NON-STRUCTURAL FURRING					
WALL	SHEATHING	INSULATION	WOOD FURRING	HAT/Z CHANNEL (20-18GA)		HAT/Z	CHANNEL (16GA)	WOOD FURRING MESH/WRAP				
CONSTRUCTION	THICKNESS	THICKNESS	1-1/2"	7/8" 1-1/4"	1-1/2"	7/8"	1-1/4"	1-1/2"	3/8"	3/4"	3/8"	3/4"	
	3/8" - 7/16"	0"							STARBORN PRO PLUG DECK	STARBORN PRO PLUG DECK	STARBORN PRO PLUG DECK	STARBORN PRO PLUG DECK	
	1/2"	0"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2",	STARBORN	PRO PLUG DECK		STARBORN PRO PLUG DECK METAL 410SS 1-5/8"		EPOXY/STAINLESS 2-1/2", 2-3/4", 3"	EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK	EPOXY/STAINLESS 2-1/2", 2-3/4", 3"	EPOXY/STAINLESS 2-3/4", 3" STARBORN PRO PLUG DECK	
	5/8"	0"	2-3/4", 3"	METAL	410SS 1-1/2"				STARBORN PRO PLUG DECK	EPOXY/STAINLESS 3"	STARBORN PRO PLUG DECK	EPOXY/STAINLESS 3"	
WOOD STUD	3/4"	0"							EPOXY/STAINLESS 2-3/4", 3"		EPOXY/STAINLESS 2-3/4", 3"		
	3/8" - 3/4"	1/2"-4"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2", 2-3/4", 3"	STARBORN PRO PLUC 410SS 1-1		STARBORN PRO I	LUG DECK METAL 41	OSS 1-5/8"					
	3/8" - 7/16"	0"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2"	STARRORN	DBU BITIC DECK		STARRORN PRO PI	IIG DECK METAI					
STEEL STUD	1/2" - 3/4"	0"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2"	METAL (STARBORN PRO PLUG DECK METAL 410SS 1-1/2"		STARBORN PRO PLUG DECK METAL 410SS 1-5/8"						
	3/8" - 3/4"	1/2"-3"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2", 2-1/2"	STARBORN PRO PLUC 410SS 1-1	/2"		LUG DECK METAL 41	OSS 1-5/8"					
CMU BLOC	K WAII	0"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2"	METAL	PRO PLUG DECK 410SS 1-1/2"		STARBORN PRO PI 410SS 2						
CIVIO BLOC	N WALL	1/2"-4"	STARBORN PRO PLUG DECK EPOXY/STAINLESS 2"	STARBORN PRO PLUC 410SS 1-1		STARBORN PRO F	LUG DECK METAL 41	OSS 1-5/8"					

NOTE

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- THE CONNECTIONS LISTED ON THIS TABLE DO NOT SERVE AS A REPLACEMENT FOR THIRD PARTY LAB TESTING. PLEASE REFER TO CLADDING BOARD MANUFACTURER'S INSTRUCTIONS FOR THE PROPER NSTALLATION REQUIREMENTS INCLUDING SPECIFICATIONS FOR SCREW SPACING, EDGE/END DISTANCES, AND GAPPING.
- -FOR MARINE APPLICATIONS, WOOD FURRING WITH 316 STAINLESS STEEL FASTENERS MUST BE USED
- FOR WOOD FRAMING: FASTENERS MUST HAVE 1" OF THREAD PENETRATION INTO THE BUILDING STRUCTURE NOT INCLUDING THE FURRING STRIP, OR 1" OF TREAD PENETRATION INTO A 2X FURRING STRIP THAT IS STRUCTURALLY CONNECTED BACK TO THE BUILDING STRUCTURE.
- FOR METAL FRAMING: FASTENERS MUST PENETRATE A MINIMUM OF 3 THREADS PAST THE FURRING STRIP.
- FOR BUILDING WRAP, MESH OR NET RAINSCREEN: FASTENERS MUST HAVE 1" OF THREAD PENETRATION INTO THE BUILDING STRUCTURE NOT INCLUDING THE BUILDING WRAP, MESH OR NET.
- FOR EXTERIOR INSULATION: FURRING STRIPS MUST BE STRUCTURALLY CONNECTED BACK TO THE BUILDING STRUCTURE. WOOD FURRING OVER EXTERIOR INSULATION MUST BE 1.5" THICK. BUILDING WRAP, MESH OR NET FURRING SHOULD NOT BE USED WITH EXTERIOR INSULATION.
- REFER TO THE SIMPLICLAD APP ON STARBORNINDUSTRIES.COM FOR ADDITIONAL INFORMATION.

- HATCH INDICATES: NOT A RECOMMENDED CONNECTION AS WE HAVE NOT YET IDENTIFIED OR DEVELOPED A FASTENER FOR THIS CONFIGURATION

GRAY INDICATES: WE HAVE NOT YET IDENTIFIED OR DEVELOPED A FASTENER FOR ATTACHING THE FURRING TO THE BUILDING. SEE FIGURE 4.

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TABLE 4 - FASTENER MATRIX FOR ATTACHING 3/4" MODIFIED WOOD / HARDWOODS AS CLADDING

						3/4" HA	RDWOOD BOAR	D - SURFACE	FASTENING					
		EXTERIOR			S	TRUCTURA	L FURRING		NON-STRUCTURAL FURRING					
WALL	SHEATHING	INSULATION	WOOD FURRING			(20-18GA)	HAT/Z CHANNEL (16GA)		A)	WOOD FURRING		MESH/WRAP		
CONSTRUCTION	THICKNESS	THICKNESS	1-1/2"	7/8"	1-1/4"	1-1/2"	7/8"	1-1/4"	1-1/2"	3/8"	3/4"	3/8"	3/4"	
	3/8"	0"	STARBORN HEADCOTE STAINLESS 2-1/2", 3"	STARBORN CAP-TOR xd METAL 1-1/2"		STARBORN CAP-TOR xd METAL 1-1/2"	STARBORN CAP-TOR xd METAL 1-5/8"		STARBORN HEADCOTE STAINLESS 2-1/2", 3"	STARBORN HEADCOTE STAINLESS 3"	STARBORN HEADCOTE STAINLESS 2-1/2", 3"	STARBORN HEADCOTE STAINLESS 3"		
WOOD STUD	7/16" - 1/2" 5/8" - 3/4"	0"	-				memer 1/2			STARBORN HEADCOTE STAINLESS 3"		STARBORN HEADCOTE STAINLESS 3"		
	3/8" - 3/4"	1/2"-4"	STARBORN HEADCOTE STAINLESS 2-1/2", 3"	STARBORN	I CAP-TOR xd	METAL 1-1/2"	STARBORN	CAP-TOR xd METAL 1	-5/8"					
CTCCI CTUD	3/8" - 1/2" 5/8" - 3/4"	0" 0"	STARBORN HEADCOTE STAINLESS 2-1/2"	STARBORN	I CAP-TOR xd	METAL 1-1/2"	STARBORN CAP-TOR xd METAL 1-1/2"	STARBORN CAP-TO	R xd METAL 1-5/8"					
STEEL STUD	3/8" - 3/4"	1/2"-3"	STARBORN HEADCOTE STAINLESS 2-1/2", 3"	STARBORN	I CAP-TOR xd	METAL 1-1/2"	STARBORN CAP-TOR xd METAL 1-5/8"							
CMU BLOCK	/ WALL	0"	STARBORN HEADCOTE STAINLESS 2-1/2"	STARBORN HEADCOTE STARBORN CAP-TOR xd METAL 1-1/2"			STARBORN CAP-TOR xd METAL 1-5/8"							
CIVIO BEOCK	WALL	1/2"-4"	STARBORN HEADCOTE STAINLESS 2-1/2"	TE STARBORN CAP-TOR xd METAL 1-1/2"		STARBORN CAP-TOR xd METAL 1-5/8"								
						3	/4" HARDWOOD	BOARD - PR	O PLUG					
WALL	CHEATHING	EXTERIOR			ST	TRUCTURA	L FURRING			NON-STRUCTURAL FURRING				
CONSTRUCTION	SHEATHING THICKNESS	INSULATION	WOOD FURRING HAT/Z CHANNEL (20-18GA)		HAT/Z CHANNEL (16GA)			WOOD F	URRING	MESH/WRAP				
CONSTRUCTION	THICKNESS	THICKNESS	1-1/2"	7/8"	1-1/4"	1-1/2"	7/8"	1-1/4"	1-1/2"	3/8"	3/4"	3/8"	3/4"	
	3/8"	0"	STARBORN PRO PLUG WOOD	STARBORN PRO PLUG DECK			STARBORN PRO		STARBORN PRO PLUG WOOD	STARBORN PRO PLUG WOOD STAINLESS 2-1/2"	STARBORN PRO PLUG WOOD	STARBORN PRO PLUG WOOD STAINLESS 2-1/2"		
WOOD STUD	7/16"-5/8" 3/4"	0"	STAINLESS 2-1/2"		METAL 4	10SS 1-1/2"		PLUG DECK METAL 410SS 1-1/2"	PLUG DECK METAL 410SS 1-5/8"	STAINLESS 2-1/2"		STAINLESS 2-1/2"		
	3/8" - 3/4"	1/2"-4"	STARBORN PRO PLUG WOOD STAINLESS 2-1/2"	STARBOR	N PRO PLUG 410SS 1-1/2	DECK METAL 2"	STARBORN PRO	PLUG DECK METAL 41	0SS 1-5/8"					
	3/8" - 1/2"	0"	STARBORN PRO PLUG WOOD STAINLESS 1-5/8"		STARBORN PRO PLUG DECI METAL 410SS 1-1/2"			STARBORN PRO	STARBORN PRO					
STEEL STUD	5/8" - 3/4"	0"	STARBORN PRO PLUG WOOD STAINLESS 2-1/2"					PLUG DECK METAL 410SS 1-1/2"	PLUG DECK METAL 410SS 1-5/8"					
	3/8" - 3/4"	1/2"-3"	STARBORN PRO PLUG WOOD STAINLESS 2-1/2"	STARBOR	N PRO PLUG 410SS 1-1/	DECK METAL 2"	STARBORN PRO PLUG DECK METAL 410SS 1-5/8"							
CMU BLOCK	CWALL	0"	STARBORN PRO PLUG WOOD STAINLESS 1-5/8"			RO PLUG DECK 10SS 1-1/2"		STARBORN PRO PLUG DECK METAL 410SS 1-5/8"						
CIVIO BEOCK		1/2"-4"	STARBORN PRO PLUG WOOD STAINLESS 2-1/2"	STARBOR	N PRO PLUG 410SS 1-1/2	DECK METAL 2"	STARBORN PRO PLUG DECK METAL 410SS 1-5/8"							

NOTE

- -THE CONNECTIONS DISPLAYED ON THIS TABLE ARE STRICTLY FOR FASTENING THE CLADDING BOARD TO THE RAINSCREEN. ALL RAINSCREEN. ALL RAINSCREEN. ELEMENTS, INCLUDING FURRING STRIPS AND SHEATHING, MUST BE SECURELY FASTENED TO THE BUILDING STRUCTURE IN ACCORDANCE WITH BUILDING CODE BEFORE THE CLADDING BOARD CAN BE ATTACHED. A PROFESSIONAL ENGINEER OR ARCHITECT SHOULD BE CONSULTED TO DETERMINE THE BEST FASTENING CHOICES AND PATTERNS.
- THE CONNECTIONS LISTED ON THIS TABLE DO NOT SERVE AS A REPLACEMENT FOR THIRD PARTY LAB TESTING, PLEASE REFER TO CLADDING BOARD MANUFACTURER'S INSTRUCTIONS FOR THE PROPER NSTALLATION REQUIREMENTS INCLUDING SPECIFICATIONS FOR SCREW SPACING, EDGE/END DISTANCES, AND GAPPING.
- -FOR MARINE APPLICATIONS, WOOD FURRING WITH 316 STAINLESS STEEL FASTENERS MUST BE USED
- FOR WOOD FRAMING: FASTENERS MUST HAVE 1" OF THREAD PENETRATION INTO THE BUILDING STRUCTURE NOT INCLUDING THE FURRING STRIP, OR 1" OF TREAD PENETRATION INTO A 2X FURRING STRIP THAT IS STRUCTURALLY CONNECTED BACK TO THE BUILDING STRUCTURE.
- FOR METAL FRAMING: FASTENERS MUST PENETRATE A MINIMUM OF 3 THREADS PAST THE FURRING STRIP.
- FOR BUILDING WRAP, MESH OR NET RAINSCREEN: FASTENERS MUST HAVE 1" OF THREAD PENETRATION INTO THE BUILDING STRUCTURE NOT INCLUDING THE BUILDING WRAP, MESH OR NET.
- FOR EXTERIOR INSULATION: FURRING STRIPS MUST BE STRUCTURALLY CONNECTED BACK TO THE BUILDING STRUCTURE. WOOD FURRING OVER EXTERIOR INSULATION MUST BE 1.5" THICK. BUILDING WRAP, MESH OR NET FURRING SHOULD NOT BE USED WITH EXTERIOR INSULATION.
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TABLE 5 - FASTENER MATRIX FOR ATTACHING 1" MODIFIED WOOD / HARDWOODS AS CLADDING

1" HARDWOOD BOARD - SURFACE FASTENING													
		EXTERIOR		S	TRUCTURAL	FURRING		NON-STRUCTURAL FURRING					
WALL	SHEATHING	INSULATION	WOOD FURRING	HAT/Z CHANNEL	6 1	HAT/Z CHANNEL (16GA)				FURRING		/WRAP	
CONSTRUCTION	THICKNESS	THICKNESS	1-1/2"	7/8" 1-1/4"	1-1/2"	7/8"	1-1/4"	1-1/2"	3/8" STARBORN HEADCOTE	3/4"	3/8" STARBORN HEADCOTE	3/4"	
	3/8" - 5/8"	0"	STARBORN HEADCOTE STAINLESS 2-1/2", 3"	STARBORN CAP-TOR xd METAL 1-1/2"		STARBORN	CAP-TOR xd METAL 1	-5/8"	STAINLESS 3"		STAINLESS 3"		
WOOD STUD	3/4"	0"											
	3/8" - 3/4"	1/2"-4"	STARBORN HEADCOTE STAINLESS 2-1/2", 3"	STARBORN CAP-TOR xo	I METAL 1-1/2"	STARBORN	CAP-TOR xd METAL 1	-5/8"					
STEEL STUD	3/8" - 3/4"	0"	STARBORN HEADCOTE STAINLESS 2-1/2"	STARBORN CAP-TOR x	I METAL 1-1/2"	STARBORN	CAP-TOR xd METAL 1	5/8"					
312223100	3/8" - 3/4"	1/2"-3"	STARBORN HEADCOTE STAINLESS 2-1/2", 3"	STARBORN CAP-TOR x	I METAL 1-1/2"	STARBORN	CAP-TOR xd METAL 1	5/8"					
CMU BLOCK	0"			STARBORN CAP-TOR xo	I METAL 1-1/2"	STARBORN	CAP-TOR xd METAL 1	5/8"					
CIVIO BEOCK	WALL	1/2"-4"	STARBORN HEADCOTE STAINLESS 2-1/2", 3"	STARBORN CAP-TOR x	i METAL 1-1/2"	STARBORN CAP-TOR xd METAL 1-5/8"							
					1	l" HARDWOOD	BOARD - PRO	PLUG					
WALL	SHEATHING	EXTERIOR		S	TRUCTURAL	. FURRING			NON-STRUCTURAL FURRING				
CONSTRUCTION	THICKNESS	INSULATION	WOOD FURRING	HAT/Z CHANNEL	(20-18GA)	HAT/2	CHANNEL (16GA	.)	WOOD FURRING MESH/WRAP				
CONSTRUCTION	THICKITESS	THICKNESS	1-1/2"	7/8" 1-1/4"	1-1/2"	7/8"	1-1/4"	1-1/2"	3/8"	3/4"	3/8"	3/4"	
	3/8" - 1/2"	0"	STARBORN PRO PLUG WOOD		PRO PLUG DECK	STARBORN PRO PLUG DECK METAL			STARBORN PRO PLUG WOOD STAINLESS 2-1/2"		STARBORN PRO PLUG WOOD STAINLESS 2-1/2"		
WOOD STUD	5/8" - 3/4"	0"	STAINLESS 2-1/2"		10SS 1-1/2"		410SS	5/8"	STANGEESS Z 1/Z	J	STAINCESS E 1/E		
	3/8" - 3/4"	1/2"-4"	STARBORN PRO PLUG WOOD STAINLESS 2-1/2"	STARBORN PRO PLUG 410SS 1-1,	/2"	STARBORN PRO PLUG DECK METAL 410SS 1-5/8"							
STEEL STUD	3/8" - 3/4"	0"	STARBORN PRO PLUG WOOD STAINLESS 2-1/2"	STARBORN PRO PLUG DECK METAL 410SS 1-1/2"		STARBORN PRO PLUG 410SS 1-5/							
	3/8" - 3/4"	1/2"-3"	STARBORN PRO PLUG WOOD STAINLESS 2-1/2"	410SS 1-1	/2"	STARBORN PRO PLUG DECK METAL 410SS 1-5/8"							
CMU BLOCK	(WAI I	0"	STARBORN PRO PLUG WOOD STAINLESS 1-5/8"	METAL 4	PRO PLUG DECK 10SS 1-1/2"	STARBORN PRO PLUG DECK 410SS 1-5/8"							
Civio Beoch		1/2"-4"	STARBORN PRO PLUG WOOD STAINLESS 2-1/2"	STARBORN PRO PLUG 410SS 1-1,		STARBORN PRO	STARBORN PRO PLUG DECK METAL 410SS 1-5/8"						

NOTES

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