



		Ramset-I-F	STICK PINS	PAT
SYSTEM COMPATIBILITY	INSULATION TYPE			
	Rigid	Yes	Yes	Yes
	Semi-rigid (rockwool)	Yes	Yes	Not Recommended
	Delta membrane + insulation	Yes	No	No
	Insulation thickness	1" to 6"	1" to 6"	1" to 4-3/4"
	Washer incremental	1/2" increments 1-4" 1" increments 4-6"	Random	Not relevant (metric)
	Insulation compression @ fastener	No	Yes	Yes
	SUBSTRATE COMPATABILITY			
	Concrete	Yes	Yes	Yes
	Hollow Block	Yes	Yes	No
	Steel	Yes	Yes	Yes
	Gypsum board + steel stud	Yes	Yes	No
	Vapor membrane	Yes	Not Recommended	No Published
Wood Frame	Yes	No	No	
STRENGTH	PULLOUT STRENGTH (ULTIMATE - LBS)			
	Concrete	211	6	240
	Hollow Block	184	6	-
	Steel	360	6	387
	Gypsum board + steel stud (20Ga)	200	6	-
LABOR	Productivity (avg 1,000 sqft)	20 min	2 days 6h	24 min
	Surface preparation	No	Cleaning + Chalk Lining	No
	Working Temp (F)	0 to 113	30.2 to 104	-4 to 113
	Cure Time	No	48h	No
	Health Hazards & VOC Emissions	0	404.5 g/L	Lead exposure + fatigue
	Licensing Required	No	No	Yes
	Operator Fatigue	Low fatigue	High	High
	Price (Material + Labor - avg/sqft)	\$0.62	\$0.67	\$0.62
THERMAL PROPERTIES	Water Infiltration / Condensation Risk	Low	High	Low
	Thermal Efficiency (6")	99.4%	89.6%	77.7%