



Ramset[®]-I-F

Insulation Fastening System



The Thermal Break Fastener that Installs in Seconds

Ramset-I-F Insulation Fastening System Is...

Safer and up to 4X faster than stick-pin fasteners:

- No need to pre-measure fastener location or prepare substrate
- No need to wait for fastener plate adhesive to dry
- No need for fastener pins base plate
- No need to push washers on pins and trim pin length
- No need to tape over washers

Safer than gun-powder-driven fastening:

- Delivers less recoil to the installer
- No spent powder casings on the jobsite
- Does not require installer licensing

Safer and faster than screw and washer fasteners:

- Delivers less torque to the installer's wrist and elbow
- Does not require assembly
- Drives faster than a screw taps



Above acoustical ceilings



Foundations & basements



Interior walls on concrete block



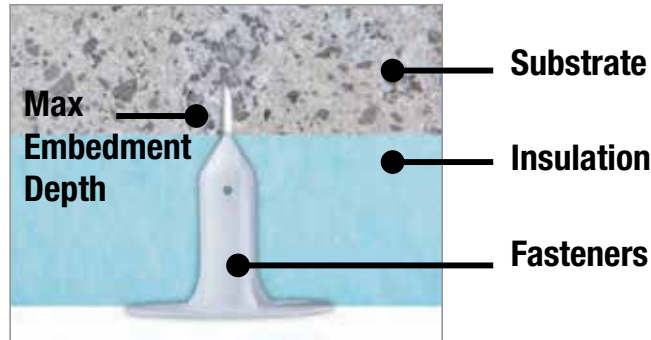
Behind cladding over wood stud walls



Behind cladding over concrete block walls



Behind cladding over steel stud walls



Ramset-I-F will fasten into:



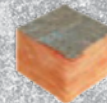
Mineral Wool



Extruded Polystyrene



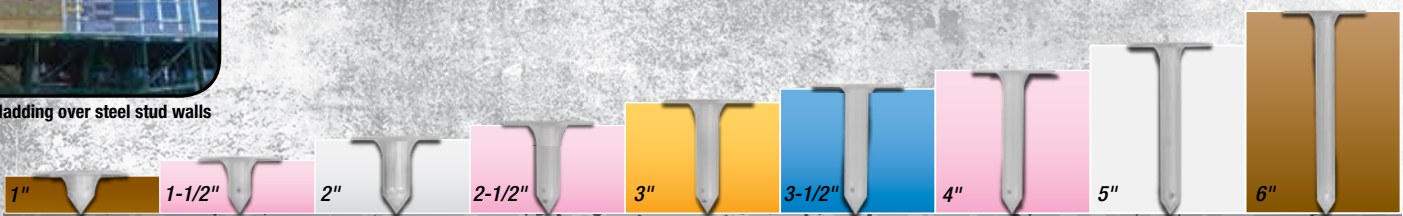
Expanded Polystyrene



Fiberglass



Polyisocyanurate



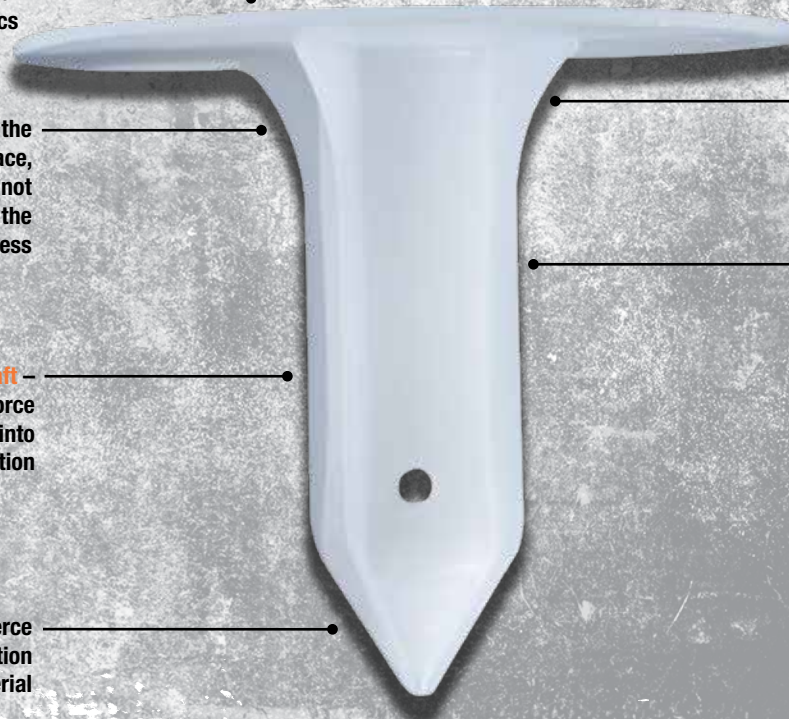
CONCRETE OR BLOCK

Integrated Cap
For improved thermal efficiency and esthetics

Flanges to ensure the insulation remains in place, the insulation panel does not slide on fastener during the installation process

Specialty Shaped Shaft
Reduces friction and force required to insert fastener into insulation

Point designed to pierce difficult insulation material



Engineered curved design limits insulation compression which enables full thermal performance

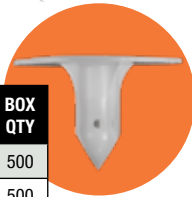
C Series pin provides exceptional performance in the hardest concrete.

S Series pin is equipped with a 2" spiral steel stud pin which fastens insulation through exterior gypsum sheathing to exterior steel or wood studs

Selection Charts:

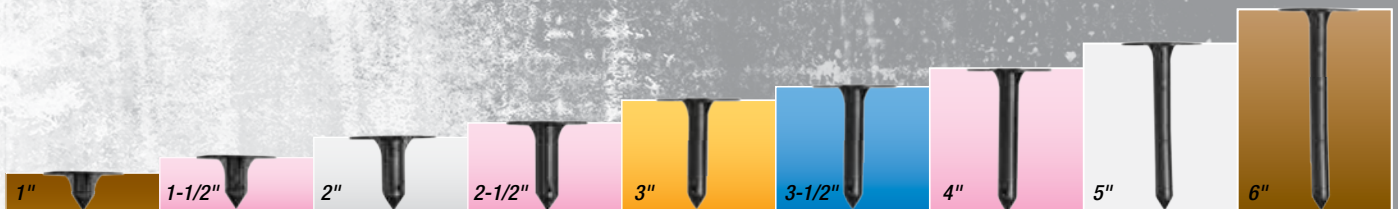
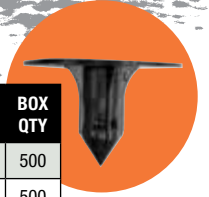
FASTENERS FOR CONCRETE AND CMU

PART NUMBER	DESCRIPTION	INSULATION THICKNESS	BOX QTY
IFC-100v2	1" Ramset-I-F w/Concrete Pin	1"	500
IFC-112v2	1-1/2" Ramset-I-F w/Concrete Pin	1-1/2"	500
IFC-200v2	2" Ramset-I-F w/Concrete Pin	2"	500
IFC-212v2	2-1/2" Ramset-I-F w/Concrete Pin	2-1/2"	500
IFC-300v2	3" Ramset-I-F w/Concrete Pin	3"	500
IFC-312v2	3-1/2" Ramset-I-F w/Concrete Pin	3-1/2"	500
IFC-400v2	4" Ramset-I-F w/Concrete Pin	4"	500
IFC-500v2	5" Ramset-I-F w/Concrete Pin	5"	500
IFC-600v2	6" Ramset-I-F w/Concrete Pin	6"	400
T3IF-6V2	T3 Ramset-I-F Tool (6" Capacity)	-	1
T3FUEL	Fuel Cells	-	1



FASTENERS FOR STEEL OR WOOD STUDS

PART NUMBER	DESCRIPTION	INSULATION THICKNESS	BOX QTY
IFS-100	1" Ramset-I-F w/Steel Pin	1"	500
IFS-112	1-1/2" Ramset-I-F w/Steel Pin	1-1/2"	500
IFS-200	2" Ramset-I-F w/Steel Pin	2"	500
IFS-212	2-1/2" Ramset-I-F w/Steel Pin	2-1/2"	500
IFS-300	3" Ramset-I-F w/Steel Pin	3"	500
IFS-312	3-1/2" Ramset-I-F w/Steel Pin	3-1/2"	500
IFS-400	4" Ramset-I-F w/Steel Pin	4"	500
IFS-500	5" Ramset-I-F w/Steel Pin	5"	500
IFS-600	6" Ramset-I-F w/Steel Pin	6"	400
T3IF-6	T3 Ramset-I-F Tool (6" Capacity)	-	1
T3fuel	Fuel Cells	-	1



STEEL OR WOOD



Performance

		Insulation Thickness					
		1 in	2 in	3 in	4 in	5 in	6 in
Reference	U – Factor (W/m2 °C)	1.1786	0.7122	0.5103	0.3976	0.3257	0.2758
	Efficiency (%)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Stick Pin	U – Factor (W/m2 °C)	1.2422	0.7706	0.5597	0.4397	0.3621	0.3078
	Efficiency (%)	94.88%	92.42%	91.17%	90.43%	89.94%	89.59%
Ramset-I-F	U – Factor (W/m2 °C)	1.1845	0.7162	0.5132	0.3999	0.3276	0.2773
	Efficiency (%)	99.50%	99.45%	99.44%	99.43%	99.42%	99.42%



For tool repair, please visit
www.ramsetrepair.com
 or call 800-222-6990.

CONCRETE

PART NUMBER SERIES	SHANK DIAMETER (INCH)	MINIMUM PENETRATION (INCH)	INSTALLED IN STONE AGGREGATE CONCRETE			
			MINIMUM CONCRETE COMPRESSIVE STRENGTH (PSI)			
			2000 PSI		4000 PSI	
			TENSION	SHEAR	TENSION	SHEAR
IFC	0.125	5/8	83 - 414	109 - 611	78 - 426	80 - 574
		3/4	107 - 541	156 - 855	104 - 593	195 - 977

HOLLOW CONCRETE BLOCK

PART NUMBER SERIES	SHANK	MINIMUM	3000 PSI LT WT CONCRETE		HOLLOW CONCRETE MASONRY UNITS (CMU) - ANY LOCATION	
			TENSION	SHEAR	TENSION	SHEAR
			IFC	0.125	5/8	84 - 418
3/4	108 - 540	173 - 864			-----	-----

STEEL STUDS

PART NUMBER SERIES	SHANK DIAMETER (INCH)	INSTALLED IN COLD FORMED STEEL FRAMING (lbf)					
		22 Gage	20 Gage	18 Gage	16 Gage	14 gage	12gage
IFS (Knurled)	0.100	20 - 120	33 - 200	46 - 280	60 - 360	62 - 371	75 - 448

WOOD

PART NUMBER SERIES	SHANK DIAMETER (INCH)	INSTALLED IN 15/32" (1/2 NOMINAL) 4 PLY PLYWOOD SHEATHING (lbf)
IFS (Knurled)	0.100	16-93

Add this specification to the project...

Specification: CSI Division07-Thermal and moisture protection insulation shall be mechanically fastened to the building substrate or component with Ramset-I-F Thermal-Break insulation fasteners from ITW Ramset, Glendale Heights, IL.

Evaluations:

ICC-ESR-1955
 ASTM E331 (Water Penetration)
 ASTM 2.78 (Air Leakage)
 ASTM 84 (Surface Burning Characteristics)

Fastener Specifications:

- Pin Material: Heat treated carbon steel
- Pin Finish: Mechanical Zinc Plated
- Washer Material: High Density Polyethylene (HDPE)
- Pin Diameter: 0.125
- 2-3/8" Holding Diameter
- The fastener assembly is clearly branded Ramset along with the length of the fastener assembly