

# Faster and Safer, Industry-Approved Thermal Break Fastener

## Performance Tables:

### CONCRETE

PART NUMBER SERIES	CONCRETE STRENGTH (PSI)	ALLOWABLE/ULTIMATE TENSION LOADS (Lbs)
IFC	<b>3600</b> - 6500	<b>35</b> - 211

\*Bold number is allowable load, second number is average ultimate load

### HOLLOW CONCRETE BLOCK

PART NUMBER SERIES	ALLOWABLE/ULTIMATE TENSION LOADS (Lbs)
IFC	<b>35</b> - 184

\*Bold number is allowable load, second number is average ultimate load

### STEEL STUDS

PART NUMBER SERIES	SHANK DIAMETER (INCH)	Installed in Cold Formed Steel Framing (lbf)					
		22 GAUGE	20 GAUGE	18 GAUGE	16 GAUGE	14 GAUGE	12 GAUGE
IFS (knurled)	0.100	<b>20</b> - 120	<b>33</b> - 200	<b>46</b> - 280	<b>60</b> - 360	<b>62</b> - 371	<b>75</b> - 448

\*Bold number is allowable load, second number is average ultimate load

### WOOD

PART NUMBER SERIES	SHANK DIAMETER (INCH)	Installed in 16/32" (1/2" nominal) 4 Ply Plywood Sheathing (lbf)
IFS (knurled)	0.100	<b>16</b> - 93

\*Bold number is allowable load, second number is average ultimate load

## Selection Chart:

INSULATION THICKNESS	CONCRETE OR BLOCK PART NO.	STEEL OR WOOD PART NO.	BOX QTY
1"	T4IFC-100	T4IFS-100	500
1-1/2"	T4IFC-112	T4IFS-112	500
2"	T4IFC-200	T4IFS-200	500
2-1/2"	T4IFC-212	T4IFS-212	500
3"	T4IFC-300	T4IFS-300	500
3-1/2"	T4IFC-312	T4IFS-312	500
4"	T4IFC-400	T4IFS-400	500
5"	T4IFC-500	T4IFS-500	500
6"	T4IFC-600	T4IFS-600	400
Tool	T4IF	T4IF	1

Concrete



Steel



## Thermal Efficiency:

		INSULATION THICKNESS					
		1 in	2 in	3 in	4 in	5 in	6 in
Reference	U-Factor (W/m <sup>2</sup> °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/m <sup>2</sup> °C)	1.2442	0.7706	0.5597	0.4397	0.3621	0.3078
	Efficiency (%)	94.88%	92.42%	91.17%	90.43%	89.94%	89.9659
Ramset I-F	U-Factor (W/m <sup>2</sup> °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%

## Fastener Specifications:

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

## Ramset I-F will attach:



Mineral Wool



Extruded Polystyrene



Expanded Polystyrene



Fiberglass



Polyisocyanurate

**Effective Fastener Length:** 3/4" for IFC- / 1-1/2" for IFS-

**Washer Diameter 2-3/8"**

Large bearing surface keeps insulation from sagging



**Integrated Cap**  
Closed cap creates thermal break



**Washer Point**  
Designed to pierce dense insulation material