

CEILING SYSTEMS  
MODULAR

# 210 series

## CLIP-IN

Clip-in type ceiling designed for internal application. Clipped in to a concealed suspension system. Fully demountable with downward accessibility / hinge down accessibility using panel removal access key tool. Offered in a wide range of sizes, colors & finishes.

### FEATURES

#### MATERIAL

Aluminum Alloy as per EN AW 3000 or 5000 series.

Zinc Plated Galvanized Steel G90 grade.

#### THICKNESS

Aluminum: 0.5mm to 0.8mm.

Galvanized Steel: 0.45mm to 0.7mm

+ Custom thickness are available upon request

#### SURFACE FINISH

Plain  
Perforated

#### COATING

Polyester Coating: (5μ (Back) + 20μ (Face))

Polyester Powder Coating: (70μ -80μ)


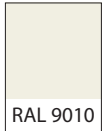
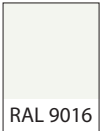

+ High Performance Coatings like PESDF, PVDF and POLYAMIDE are available upon request.

#### INSULATION

**Acoustic Black Fleece** is non-flammable and meets the standard DIN 4102 / B1. Classification A1 according to EN 13501-1.

**Rockwool slabs** conforming to ASTM C612 and equivalent BS 3958-5 are provided for acoustic insulation.

#### COLORS

			
RAL 9003	RAL 9010	RAL 9016	RAL 9006

#### SPECIAL FINISHES

			
Red Oak	Natural	Mirror	Brush

- + See [www.rammatal.com](http://www.rammatal.com) for additional colors & special finishes available
- + Special finishes can be provided in lamination, sublimation or coil coating process.

#### SIZES (mm)


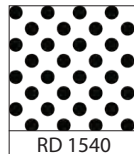
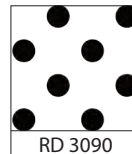
	Panel Joint Details			RAM 211	RAM 212
	Square	5 mm Beveled	3mm Beveled		
300 X 300	•	•		•	
300 X 600	•	•		•	
300 X 1200	•	•		•	
600 X 600	•	•	•	•	•
600 X 1200	•	•		•	•
600 X 1800	•			•	•
1200 X 1200	•			•	•

\*RAM 211 –With tool key access

\*RAM 212 –With hinge down access

+ Custom Sizes available upon request

#### PERFORATION PATTERNS

		
RD 1850	RD 1540	RD 3090

- + See [www.rammatal.com](http://www.rammatal.com) for all available pattern options

## DATA / PERFORMANCE



### ACOUSTICS

Tested as per BS EN ISO 354: 2003 for sound absorption, noise reduction and sound attenuation.

NRC achieved with Acoustic Black fleece – NRC 0.75

NRC achieved with Acoustic Black Fleece and Rockwool Insulation – NRC 1.00

Tested as per ASTM E1414-11a for Airborne Sound Attenuation as per ISO 10848-2.

CAC can achieved up to – 48 dB

Perforated & Sound Attenuation cover



### ANTI BACTERIAL COATING

Tested as per JIS Z 2801: 2000, which inhibits the growth of bacteria on the applied surface.



### LIGHT REFLECTANCE (LR)

Achieved by the metal ceiling is LR – 0.85-0.96 tested as per ASTM E 1477.



### FIRE PERFORMANCE

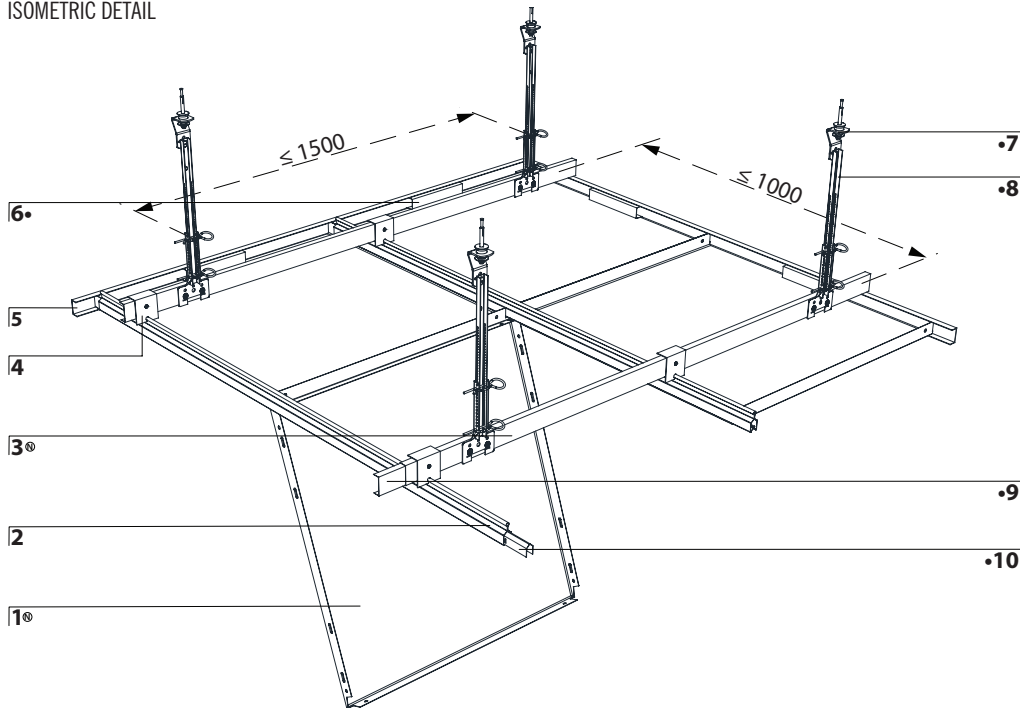
Surface Spread of flame Class 1 tested as per BS 476: Part 7: 1997

“Non-Combustible” Material tested as per BS 476: Part4: 1970

Flame Spread and Smoke Development Index tested as per ASTM E84 (Class 1 or A)

## RAM 211 CLIP-IN RAM 212 CLIP-IN/HINGEDOWN

### ISOMETRIC DETAIL



### COMPONENTS

- 1 Panel
- 2 Narrow Carrier
- 3 Stabilizer
- 4 NC Bracket
- 5 Wall Trim
- 6 Wedge
- 7 Anti-Vibration Clip (RH)
- 8 Rigid Hanging System
- 9 ST Splice
- 10 C Splice
- 11 Spring Tee Carrier
- 12 SC Bracket
- 13 Wire Clip
- 14 U Bracket
- 15 Threaded Rod
- 16 Anti-Vibration Clip (TR)
- 17 Adjustment Clip
- 18 Coupling Clip
- 19 Security Wire



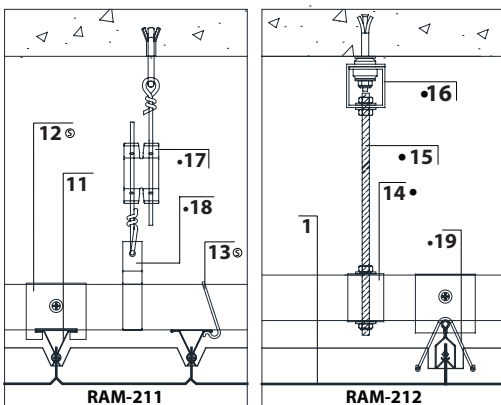
• Optional

• For Narrow Carrier

• For Spring Tee Carrier

Custom sizes can be offered

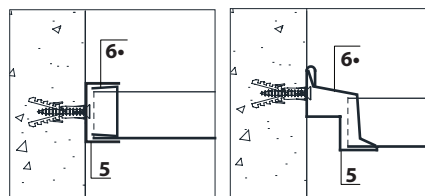
### OPTIONAL HANGING SOLUTIONS



### JOINT DETAIL



### PERIMETER OPTIONS



### ACCESS TOOL

