

CEILING SYSTEMS  
TORSION SPRING

# 610 series

SR

This hinge down type modular torsion spring ceiling system with reveled edge is an ideal solution for mega size panels and multiple height ceilings. It is highly sustainable and durable. Available with sound attenuation panels. Can be produced in double skin. Fully demountable with downward hinge down accessibility without using any special 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 or Galvanized Steel:  
0.5mm to 1.0mm.

- + Custom thickness are available upon request
- + Spring Material- Stainless Steel for both options

### SURFACE FINISH

Plain  
Perforated  
Decorative Patterns

### SIZE

#### PANEL JOINT DETAIL

5-20 mm gap

#### DIMENSIONS (mm)

600x600/600x1200/1200x1200

- + Custom sizes are available upon request

### COATING

Polyester Coating: ((5 $\mu$  (Back) + 20 $\mu$  (Face))

Polyester Powder Coating: (70 $\mu$  -80 $\mu$ )

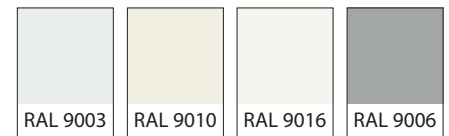
- + High Performance Coatings like PESDF, PVDF and POLYAMIDE are available upon request.

### 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

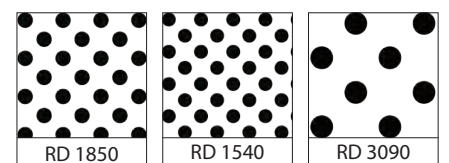


### SPECIAL FINISHES



- + 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.

### PERFORATION PATTERNS



- + 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

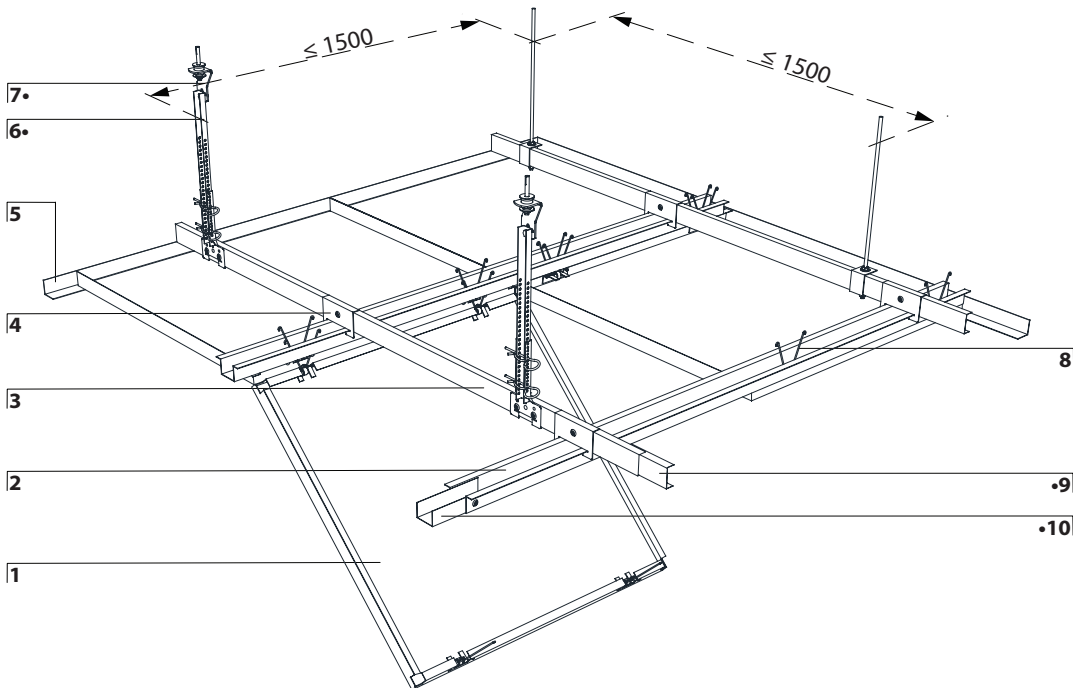
Surface Spread of flame Class 1 tested as per BS 476: Part 7: 1997

“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)

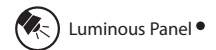
## RAM 611 SQUARE/RECTANGULAR

### ISOMETRIC DETAIL



### COMPONENTS

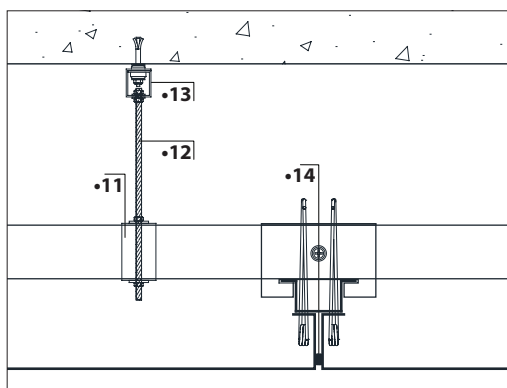
- 1 Panel
- 2 Torsion Spring Carrier
- 3 Stabilizer
- 4 TC Bracket
- 5 Wall Trim
- 6 Rigid Hanging System •
- 7 Anti-Vibration Clip (RH) •
- 8 Torsion Spring Wire
- 9 ST Splice •
- 10 C Splice •
- 11 Universal Bracket
- 12 Threaded Rod •
- 13 Anti-Vibration Clip (TR) •
- 14 Self-Adhesive Seal •
- 15 Spacer •



• Optional

Custom sizes can be offered

### SECTION DETAIL



### JOINT DETAIL



### PERIMETER OPTIONS

