CEILING SYSTEMS
SECURITY

810 series
HIGH GUARD

A high guard ceiling type. Grade 1 is designed for maximum security and is ideal for prisons, detention centers, and other high security zones. Security access panel with master key solution available. Grade 4 is designed for light security and is ideal for airport washrooms, classrooms, light detention centers, and other light security zones. Security access panel with special tool available. Tested as per ASTM F2322-2012 standards for maximum Grade 1 criteria & tested for load bearing capacity. Offered in a wide range of sizes, colors & finishes.

FEATURES

MATERIAL
Zinc Plated Galvanized Steel G90 grade.

THICKNESS
Galvanized steel:
RAM 811: 2.0mm
RAM 812: 1.0mm

+ Custom thickness are available upon request

SURFACE FINISH
Plain
Perforated

SIZE
PANELS (mm)
600x600/600x1200

+RAM 811 (with security brackets)
+RAM 812 (with security lock)

+ Custom sizes are available upon request

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

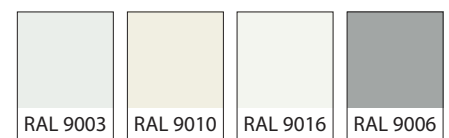Polyester Powder Coating: (70μ -80μ)

+ 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.

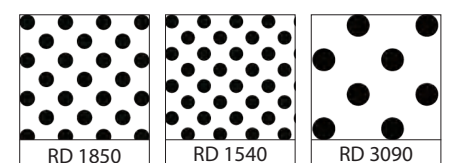**Rockwool** slabs conforming to ASTM C612 and equivalent BS 3958-5 are provided for acoustic insulation.

COLORS

RAL 9003	RAL 9010	RAL 9016	RAL 9006

SPECIAL FINISHES

Red Oak	Natural	Mirror	Brush

+ See www.rammetal.com for additional colors & special finishes available

+ Special finishes can be provided in lamination, sublimation or coil coating process.

PERFORATION PATTERNS

RD 1850	RD 1540	RD 3090

+ See www.rammetal.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.

SECURITY

Complies with ASTM F2322 standards for physical assault on vertical fixed barries for detention and correctional facilities
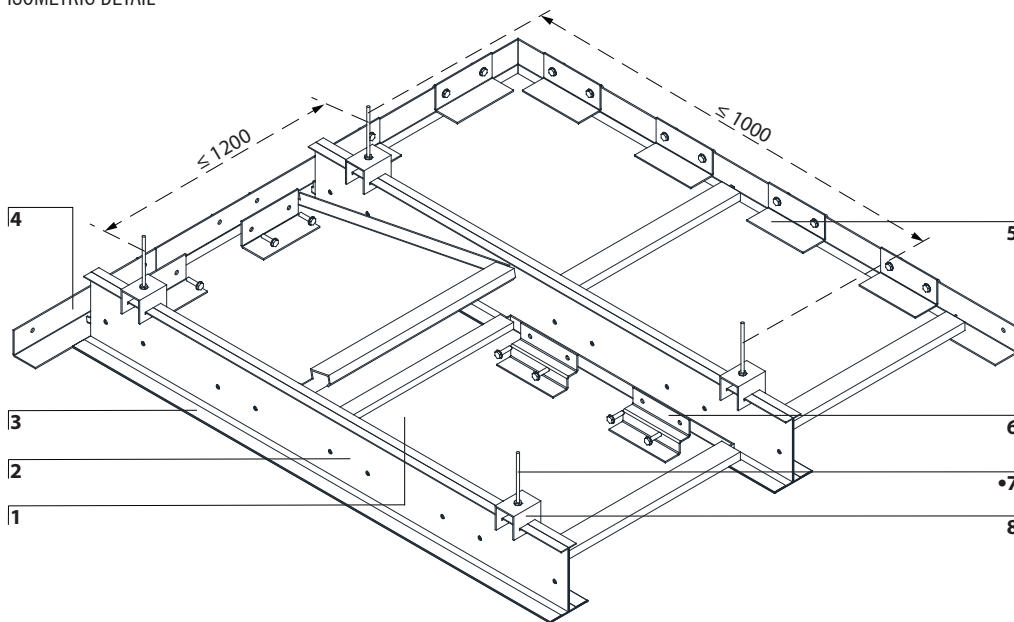
FIRE PERFORMANCE

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 811 SECURITY CEILING GRADE 1
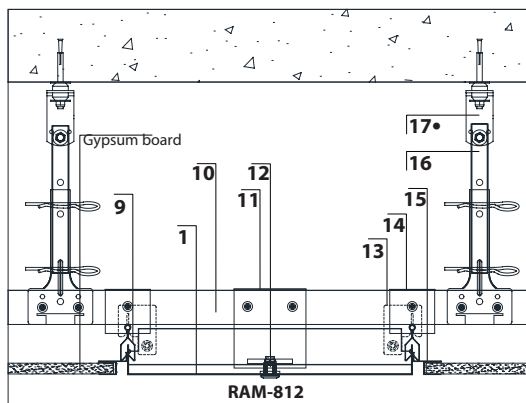# RAM 812 SECURITY CEILING GRADE 4

ISOMETRIC DETAIL

COMPONENTS

 1 Panel
 2 Carrier Profile
 3 Carrier Cap
 4 Wall Trim
 5 L Wedge
 6 W Wedge
 7 Threaded Rod ●
 8 C Bracket
 9 Narrow Carrier
10 Stabilizer
11 Security Plate
12 Budget Security Lock & Key
13 SL Bracket
14 NC Bracket
15 F Profile
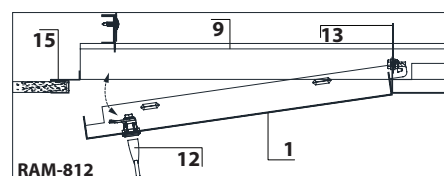16 Rigid Hanging System
17 Anti-Vibration Clip (RH) ●

● Optional

Custom sizes can be offered

CROSS SECTION

ACCESS PANEL SECTION

PERIMETER OPTION

RAM
POWERED BY PROFEX