TECHNICAL SPECIFICATIONS

The ceiling is an important part of the interior in every modern building. While contributing to the aesthetics of the interior, it must perform various functions such as resist fire, provide insulation, control acoustics and reduce noise.

THE IDEAL CHOICE

Daiken mineral acoustic tiles are made from rockwool fibres and special binders. The mineral fibres are uniformly interwoven by a unique wet-felting process to form rigid board and tiles that are non-combustible and fire-resistant.

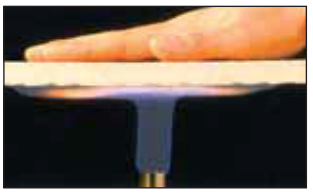
In addition, the board and tiles produced, are porous with a low specific gravity and exhibit efficient thermal insulation and sound absorption qualities. They resist sound transmission more effectively than glass fibre products.

Daiken mineral acoustic tiles do not sag, due to their balanced strength, uniform product quality and good dimensional stability.

The combination of all these features makes Daiken Ceilings the ideal choice for high quality ceilings in high-rise office blocks, airport buildings, hotels, hospitals, educational facilities and shopping centres.



Slag and converted mineral fibre



Non-combustible and fire-resistant

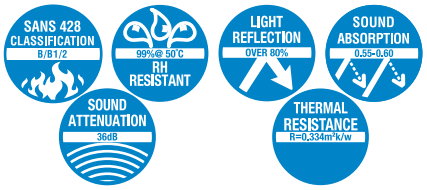
SABS

Surface Fire Index Test: SANS 10177 Part 3: Class 1

FIRELAB

SANS 10177 Part 5: 2012: Combustible @ 750°C
SANS 10177 Part 10: Does not propogate flaming.
SANS 428 CLASSIFICATION: Class B/B1/2

ISO 9001:2000 **ISO 14001:1998**



SUPERB FEATURES OF EXCEL-TONE MR INCLUDE

10 YEAR GUARANTEE

Daiken Excel-Tone MR (Moisture Resistant) tiles have proved to be of superior quality. They are guaranteed for 10 years against visible sagging at temperatures up to 50°C and 99% relative humidity. These tiles can even be used in rooms without air conditioning or in a high humidity environment

OUTSTANDING FIRE RESISTANCE

Tiles are non-combustible and do not emit toxic gas or smoke, melt, break, or become deformed under normal fire conditions, protecting ceiling areas from fire.

EFFECTIVE THERMAL INSULATION

Thermal insulation is more than six times that of gypsum board. Room comfort is maintained with savings on cooling and heating costs.

SUPERIOR SOUND ABSORPTION

Superior sound absorption and insulation characteristics create a comfortable and quiet room environment.

QUALITY FINISHES



New NDF



Constellation

PHYSICAL DATA SUMMARY

Common data for Excel-Tone MR

Physical Properties		Test Method
Moisture content	20%	JIS A 6301
Modulus of Rupture	17kgf/cm²	JIS A 6301
Non-combustibility	As approved by the Japanese Minister of Construction under the approval No. 206-26/B.S 476 Part 4	
Fire Propagation Test	Class 0	B.S 476 Part 6
Flame Spread	Class 1 (0 - 25)	ASTM - E84
	Class A	US Federal Spec. SS-S-118B
	20	Underwriters Laboratories Inc.
	Class 1	B.S. 476 Part 7
Thermal Conductivity	0.045kcal/mh°C	JIS A 1412
Light Reflectance	LR 1 (over 75%)	ASTM C 523
Sound Absorbance Coefficient	0.55 - 0.60	ASTM C 423
Ceiling Attenuation Class (CAC)	36	ASTM E 413

JIS: Japanese Industrial Standard

CEILING ATTENUATION CLASS

CAC of Excel-Tone MR - New NDF & Constellation

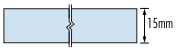
Installation Method	Thickness	Frequancy (Hz)					
		125	250	500	1000	2000	4000
Exposed T-Bar System	15mm	20	29	36	39	40	40

SOUND ABSORPTION COEFFICIENT

Sound Apsorption Coefficicient of Excel-Tone MR

Installation Method	Thickness	New NDF	Constellation
Exposed T-Bar System	15mm	N.C.R 0.55 - 0.60	N.C.R 0.55 - 0.60

PRODUCT SPECIFICATIONS

Excel-Tone MR	Thickness	Standard Size (mm)	Pattern	Edge
Square Edge	15mm	600 x 600 (O.C) 600 x 1200 (O.C)	New NDF Constellation New Venus Perf. Tranquil	 15mm 4 Sides: Trimmed

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