

DENSESHIELD

Severe Duty Impact Resistant Wall System



DENSESHIELD

General Information

- > Highest level of Impact resistant (severe duty) in accordance with BS 5234 PART2
- > When installed to KNAUF specifications the following performance can be achieved

- 4 hours of fire protection
- 60 dB of noise protection*

*Please see partition performance table

KNAUF Impact Resistant Gypsum Board

Designed and manufactured for internal in high traffic areas where acoustic and fire safety performance is required.

DenseShield has extra high density gypsum core. DenseShield is suitable for high traffic areas and meceus of escape in buildings such as hotels, condominiums, and public buildings such as hospitals, shopping malls, educational institutes and, high-end residences.

Product Information

Thickness (mm)	Width (mm)	Length (mm)	Weight (kg/m ²)	Edge*
13	1200	2400	11.9	TE, SE
16	1200	2400	14.5	TE, SE
Surface	Yellow color face paper and brown color back paper.			
Installation Method	For best results, install with both Knauf wall and ceiling systems.			

*Edge type TE = Tapered Edge, SE = Square Edge

Recommendation

KNAUF DenseShield should be installed together with KNAUF wall metal frame systems in order to achieve highest performances.

Specification

KNAUF DenseShield

Edge Type

- > Tapered Edge
- > Square Edge.

Board Dimensions

- > 13 x 1200 x 2400 mm.
- > 16 x 1200 x 2400 mm.

Knauf Metal Ceiling Frame

- > KC50* & KC40

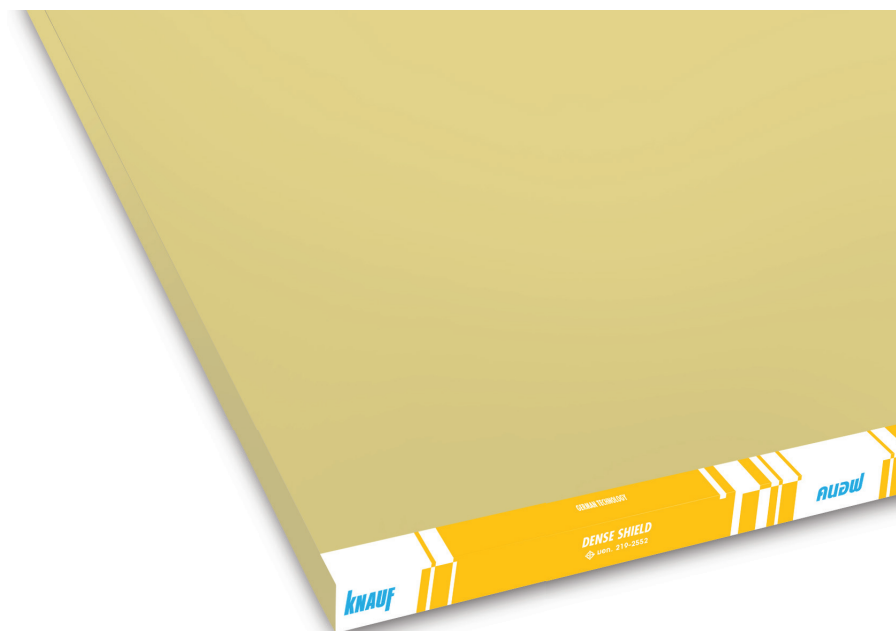
Knauf Metal and Wall Frame

- > KW50* & KW40

Knauf Full Accessories

*Complys with Thai Industrial Standards

- > TIS 219-2552
- > TIS 863-2532
- > TIS 50-2538



KNAUF DenseShield

GENERAL INFORMATION



Eco-Friendly



Fire Resistant



Impact Resistant



Noise Protection

Industrial Standards Testing Standard

> TIS. 219-2552
 > ASTM C1396
 > AS/NZS 2588
 > EN 520
 > BS 1230

> BS 5234 Part 2
 > BS 476 Part 22
 > ASTM E90,
 ISO 10140-2



Wall System

Knauf Frame C Stud/U Track	Overall Thickness of Wall System	Thickness of Sheet	Height*	Sound-Proofing Rate	Sound-proofing Rate + Insulation**	Fire Resistance Rate	Usage Level***	Weight
mm	mm	mm	mm	dB	dB	min		kg/m ²
63/65	89 95 115 127	1x13 1x16 2x13 2x16	3.72 3.91	40 42 49 51	49 51 59 60	60 90 120	severe duty	26.8 32 51.5 62.2
91/93	117 123 143 155	1x13 1x16 2x13 2x16	4.94 5.18	41 43 49 52	50 52 59 60	60 90 120	severe duty	27.1 32.3 51.8 62.5

* Distance of C-Stud centers equals 600 mm.

** Insulation 50mm thick fiberglass, at density 11 kg/m³

Plastered Ceiling System

Table 1 Distance for installation of expansion bolt / upper wire / hook wire KC 50 / Knauf spring

Bearing Capacity (kg/m ²)	20	25	30	35	40	45	50
Distance from Center (mm)	1200	1175	1100	1025	950	875	800

Table 2 Distance for supporting frames

Thickness (mm)	Distance for Installation (mm)	Direction for Installation
13	600	Perpendicular with the main grid
16	600	Perpendicular with the main grid



KNAUF VIETNAM



KNAUF'S HANOI OFFICE

Unit 6-7, 8th Floor, TNR Tower,
54A Nguyen Chi Thanh, Dong Da Dist.,
Hanoi

- > Tel: +84 24 3791 8412
- > Fax: +84 24 3791 8413



KNAUF'S HAIPHONG FACTORY

Plot CN4.4A, Dinh Vu Industrial Zone,
Dong Hai 2 Ward, Hai An District,
Dinh Vu-Cat Hai Economic Zone, Haiphong

- > Tel: +84 225 8830 666
- > Fax: +84 225 8830 686



KNAUF DIGITAL

- > Email: info@knauf.com.vn
- > www.facebook.com/knauf-vietnam-636398023062218
- > www.knauf.com.vn



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