

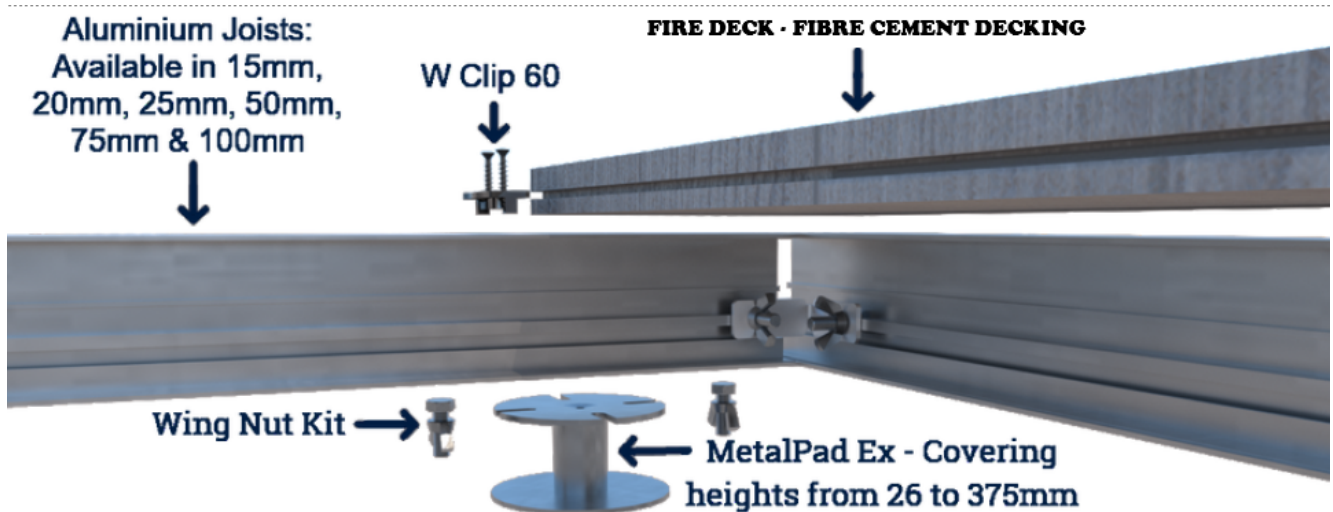


# Wallbarn - Technical Datasheet

## Fire Deck - Fibre Cement Decking

### Product Description

Fire Deck - Fibre Cement Decking board has been produced and tested to meet the updated British building regulation standards, BS 8579:2020, for the design of balconies and terraces. It is a highly durable material that will never burn, rot, rust, or warp. This system is particularly well-suited for commercial areas, designed to handle public weight loads with ease.



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IMS.T.1019.v1

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## Physical and Chemical Properties

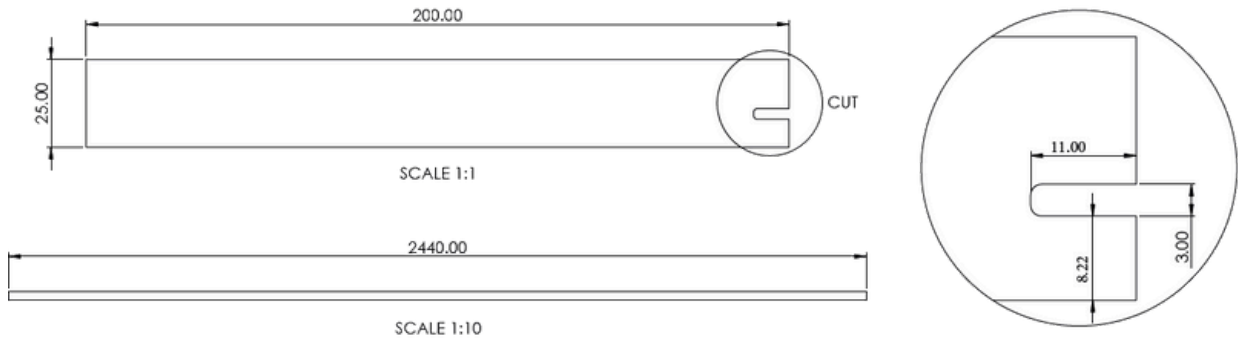
Density	
Density g/cm <sup>2</sup>	≥ 1.4
Moisture Absorption %	≤ 28
Wet Swelling Rate %	≤ 0.25
Combustibility Performance	Grade A Non-combustible
Impermeability	After 24 hour inspection, no water droplets were found
Weatherability	
Anti-Frozen	100 times frozen melting circle, no cracking, no layer
Hot Rain Test	Fifty hot rain cycles, no cracks and delamination on the plate surface
Hot Water Test	The ratio of saturated flexural strength to saturated flexural strength is greater than or equal to 70% after 56 days immersion at 60 degrees Celsius
Immersion Drying Test	After 50 cycles of drying, the saturated flexural strength ratio is greater than or equal to 70%
Mildew Resistance Test	Antifungal property grade 0
Water Resistance	After 30 days, no cracking, no layering, no falling off, no swelling and no colour change observed
Acid Resistance	After 15 days, no cracking, no layering, no falling off, no swelling and no colour change observed
Alkaline Resistance	After 15 days, no cracking, no layering, no falling off, no swelling and no colour change observed
Environmental Protection Performance	
Non-Asbestos Test	It conforms to HJ/T223-2005 Standard and does not contain Asbestos
Radioactivity	Complying with GB6566-2021 Standard and meeting the requirements of Class A decorative materials. IRA is less than or equal to 1.0. Exposure index IR less than or equal to 1.0. Class A decorative materials, production, marketing and scope of application are unrestricted.
Mechanical Property	
Saturated Flexible Strength	≥13
Specification & Size	
Length (mm)	2440
Width (mm)	150 & 200
Thickness (mm)	25



## Weight & Dimensions

**BOARD DIMENSIONS : 25mm (H) x 200mm (D) x 2,440mm (L)**

WEIGHT	
21 Kgs per Board	42 Kgs per sqm



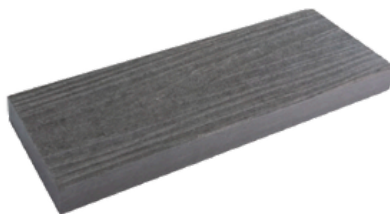
## Composition & Materials

	PERCENT (BY WEIGHT)	CASE NO.	EC#	MITI NO.	KE-NO.
PORTLAND CEMENT	37%	65997-15-1	266-043-4	-	KE-29067
LIME	18%	1305-78-8	215-138-9	1-189	KE-04588
MICA	1.5%	12001-26-2	Unlisted	-	KE-25420
PERLITE	1.5%	93763-70-3	Unlisted	-	KE-05-0978
OTHER ADDITIVES	1.5%	N/A	N/A	N/A	215-171-9
QUARTZ	33.5%	14808-60-7	238-878-4	1-548	KE-29983

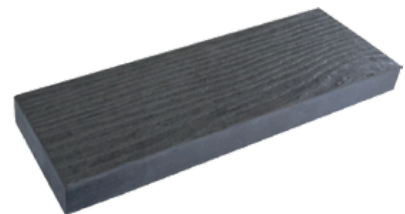
## Colours



**SILK GREY**  
Made to Order  
Minimum 650sqm



**DUSTY GREY**  
Made to Order  
Minimum 650sqm



**QUARTZ GREY**  
Stock Colour in the UK

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**FIRE PROOF A1 RATED  
NON-COMBUSTIBLE  
DECKING**

WDa20191225001a4

2440 x 190 x 25mm

TEST ITEM

5 minutes. Uniform load test:  
The vertical downward uniform load is applied to two trestle slab specimens, and the load is loaded to failure at different stages for five minutes. The deformation in the middle span position is read and the failure condition of the specimen is recorded.

BRIEF DESCRIPTION OF THE DEVICE

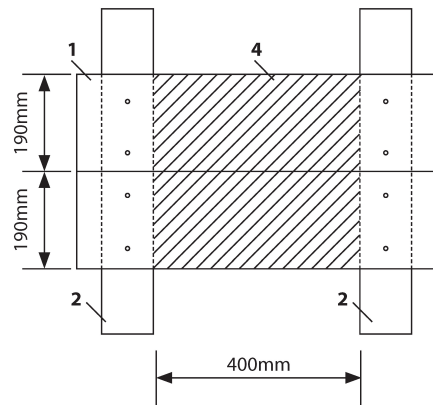
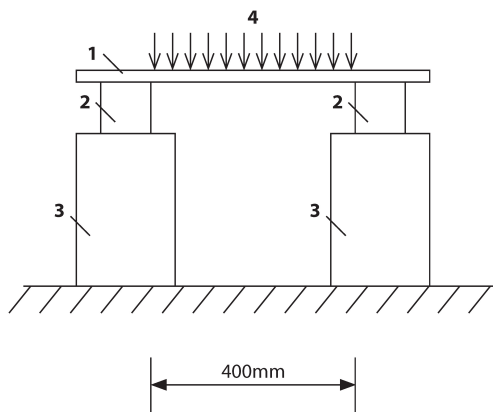
The two trestle plate specimens are carried together, the trestle plate is fastened and installed on the skeleton with self-tapping screws, the skeleton is fastened to the rigid support, the test net span is 400mm, and the test surface width is 190x3 = 380mm. Install the meter at both ends of the middle bottom of the specimen and the data of sinking deformation is read.

TEST RESULTS

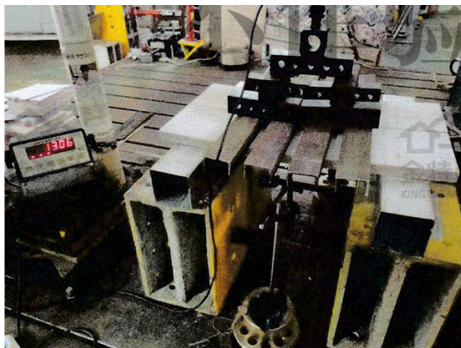
Applied Load Value (Kilos)	Applied Load Value (kN)	Average Value of Mid-span Deformation (m m)
0.00	0.00	0.00
101.97	1.00	0.187
203.94	2.00	0.355
305.91	3.00	0.529
407.89	4.00	0.716
509.86	5.00	0.912
611.83	6.00	1.116
713.80	7.00	1.307
815.77	8.00	1.498
866.76	8.50	1.593
917.74	9.00	1.687
968.73	9.50	1.825
1019.72	10.00	1.946
1070.70	10.50	2.068
1121.69	11.00	2.199
1172.67	11.50	2.333
1223.66	12.00	2.489
1274.65	12.50	2.625
1325.63	13.00	2.826
1331.75	13.06	Termination of Trial



TEST LOADING SCHEMATIC DIAGRAM



1-Trestle Board Specimen. 2-Skeleton. 3-Rigid Support. 4-Uniform Load.



TEST PICTURE  
Measured failure load

SPECIMEN LOAD - DEFORMATION CURVE GRAPH

