



SUPERFLEX

Thicker Board!

THE VERSATILITY OF UCO SUPERFLEX



UCO Superflex is tough and flexible. It is ideally use as decking, permanent formwork, flooring and many more.

DESIGN CRITERIA

The requirements under BS 5975 for thicker board are based on:

- All deflections are limited to 1/270 span.
- A minimum safety factor of 2.0
- An allowance for live load of 1.50 kN/m²

Table below shows the requirements of minimum thickness of UCO Superflex Thicker Board:

		Clear Span , L (mm)								
		200	250	300	350	400	450	500	550	600
RC Slab thickness (mm)	50	12	12	12	12	12	15	15	18	18
	75	12	12	12	12	15	15	18	18	20
	100	12	12	12	12	15	15	18	18	20
	125	12	12	12	12	15	18	18	20	25
	150	12	12	12	15	15	18	18	20	25
	175	12	12	12	15	15	18	20	25	25
	200	12	12	12	15	18	18	20	25	25
	225	12	12	12	15	18	18	20	25	25
	250	12	12	15	15	18	20	25	25	-
	275	12	12	15	15	18	20	25	25	-
	300	12	12	15	15	18	20	25	25	-
	325	12	12	15	18	18	20	25	-	-
350	12	12	15	18	18	20	25	-	-	

Table : Simplified Requirements of Minimum Thickness (mm)

Recommended board thickness for different applications:

Applications	Board thickness				
	12mm	15mm	18mm	20mm	25mm
Acoustic Screens	✓	✓	✓	✓	✓
Louvres	✓	✓	✓		
Cooling Tower Linings	✓	✓	✓		
Curtain Walls	✓				
Domestic Decking	✓	✓	✓	✓	✓
Laboratory Bench Tops			✓	✓	✓
Marina Decking			✓	✓	✓
Parapet Linings	✓	✓	✓	✓	✓
Permanent Formwork	✓	✓	✓	✓	✓
Plant Rooms	✓	✓			
Sound Studios	✓	✓	✓	✓	✓
Staircase Risers and Treads	✓	✓	✓	✓	✓
Sunscreens	✓	✓			
Swiftlet Houses	✓	✓	✓	✓	✓
Tunnel Linings	✓	✓	✓	✓	✓
Wet Area Floors	✓	✓	✓	✓	✓

Maximum applied loads based on UDL (KN/m)
_ Service Dead & Construction Load

Based on width 1220mm

		Clear Span , L (mm)								
		200	250	300	350	400	450	500	550	600
Superflex Board Thickness (mm)	12	30.5	15.6	8.5	5.6	3.8	2.6	1.9	-	-
	15	59.1	30.5	17.6	11.1	7.4	5.1	3.7	2.8	2.2
	18	98.2	52.8	30.5	18.9	12.8	9.0	6.5	4.9	3.7
	20	141.7	72.6	42.0	26.4	17.7	12.4	9.1	6.8	5.3
	25	276.8	141.7	82.0	51.6	34.6	24.3	17.7	13.3	10.3

Size (mm)	Nominal weight (kg)		
	2440 x 1220mm	1220 x 1220mm	1220 x 610mm
12	55.4	27.7	13.8
15	71.4	35.7	17.9
18	85.7	42.9	21.4
20	95.3	47.6	23.8
25	115.4	57.7	28.8

PRODUCT CHARACTERISTICS

• BASIC COMPOSITION

Portland cement, refined sand and specially treated cellulose fibre

• PHYSICAL PROPERTIES

UCO Superflex is certified to MS 1296:1992

• DENSITY AT OVEN DRY

1.33 to 1.42 g/cm³

• FLEXURAL STRENGTH (Modulus of Rapture)

	Average	Across Fibre	Along Fibre
EMC	18	22	17
Saturated	13	15	11

WATER ABSORPTION (BY WEIGHT)

22.0% (**EMC to Saturated)

**EMC: Equilibrium Moisture Content, at 25°C & 50% Relative Humidity

MOISTURE CONTENT AT EMC (by Weight)

8.0%

THERMAL CONDUCTIVITY

Estimated at 20°C, 0.30 W/m.K

MOISTURE MOVEMENT

0.06% to 0.08% (Saturated to EMC)

Note: Information contained herein or related hereto is meant as an indicative guide only and intended for evaluation by technically skilled person. Use of this information for specific application has to be consulted with qualified person.

The recommendations in this brochure are formulated along the lines of good building practice. However, this brochure is not intended to be an exhaustive statement of all relevant data. The terms and conditions of our standard product warranty for UCO Superflex boards apply to this product as well. For our full standard product warranty, please refer to our brochure on UCO Superflex.



FIRE RESISTANCE



TERMITE-PROOF



NON-HAZARD



FAST INSTALLATION



VERSATILE



STRONG & FLEXIBLE



SMOOTH SURFACE

BUILD BETTER WITH the NAME you can TRUST

UAC BERHAD (5149 H)
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