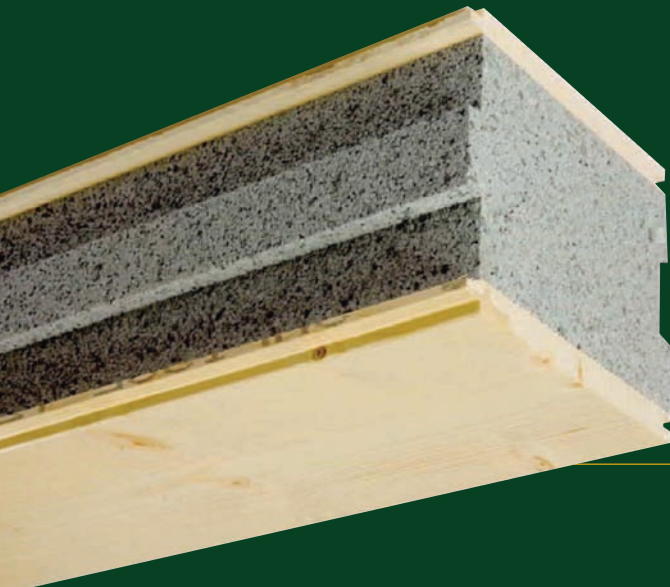


# SAPISOL<sup>®</sup>



HIGH PERFORMANCE INSULATED PANELS  
FOR FLOORS WALLS AND ROOFS



AVAILABLE IN A RANGE  
OF INTERNAL FINISHES

C O W L E Y  
T I M B E R + P A R T N E R S

## SAPISOL PRODUCT RANGE

SAPISOL IS AN INTERLOCKING INSULATED PANELLING SYSTEM WIDELY USED IN EUROPE. THIS INNOVATIVE TIMBER PRODUCT HAS EXCEPTIONAL STRUCTURAL SPANNING PERFORMANCE. THE MAIN BENEFITS OF THIS LIGHTWEIGHT SYSTEM ARE LONG SPANNING CAPACITIES, HIGH LEVEL THERMAL AND ACCOUSTIC PERFORMANCE AND AVAILABILITY IN A VARIETY OF DEPTHS, SPECIES AND FINISHES.

SAPISOL IS AN EXCELLENT THREE IN ONE SOLUTION FOR FLOORS, WALLS AND ROOFS AND AVAILABLE IN LENGTHS OF UP TO 13.4M.

SAPISOL IS QUICK AND EASY TO INSTALL, DURABLE AND APPROPRIATE FOR A WIDE RANGE OF CONSTRUCTION PROJECTS.



### SAPISOL

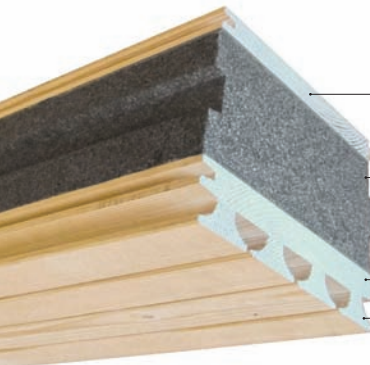
WALLS, FLOORS OR ROOFS

SPRUCE (20MM)

GRAPHITE POLYSTYRENE  
(46MM, 96MM, 120MM, 146MM, 180MM)

DAK (20MM)

ALSO AVAILABLE IN SPRUCE & LARCH



### SAPIPHONE

ACCOUSTIC PANELS FOR ROOFS OR WALLS

SPRUCE (20MM, 26MM)

GRAPHITE POLYSTYRENE  
(46MM, 120MM)

SPRUCE (22MM, 28MM)

SPRUCE (20MM, 26MM)



### SAPILIEGE

ROOF FLOORS OR WALLS

SPRUCE (20MM)

CORK  
(48MM, 96MM)

SPRUCE (20MM)

ALSO AVAILABLE IN OAK



### SAPISIN

STRUCTURAL & MEZANINE FLOORING

OAK (14MM)

HIGH DENSITY PARTICAL BOARD  
(22MM)

SPRUCE (14MM)

ALSO AVAILABLE IN OAK

### SPRUCE



### OAK



### LARCH



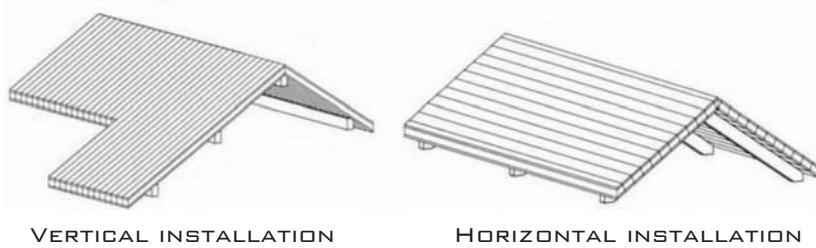
### PAINTED SPRUCE



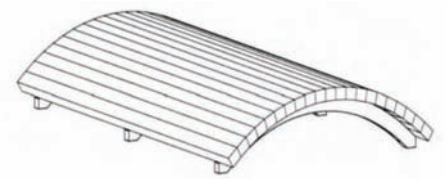
SAPISOL AS A ROOF WORKS AS AN INTERIOR FINISH, INSULATION AND STRUCTURAL FORM. IT CAN DELIVER AN IMPRESSIVE INTERNAL CEILING WITH MULTIPLE FINISH OPTIONS.

DESIGNED AS A TOTAL SOLUTION FOR ALL TYPES AND SHAPES OF ROOFS, THE PRODUCT CAN ALSO ACCOMMODATE A RANGE OF EXTERNAL ROOF FINISHES INCLUDING TILES, MEMBRANES AND OTHER WATERPROOFING SYSTEMS. IT IS ALSO A PRACTICAL SOLUTION TO THERMAL BRIDGING AND THE VARIOUS PROFILE DEPTHS PROVIDE THE ANSWER TO ANY PROJECTS THERMAL PERFORMANCE REQUIREMENTS.

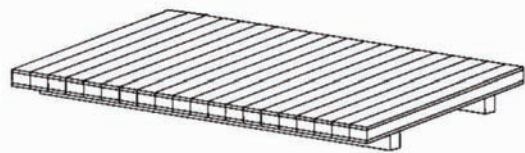
## STRAIGHT GABLE ROOF



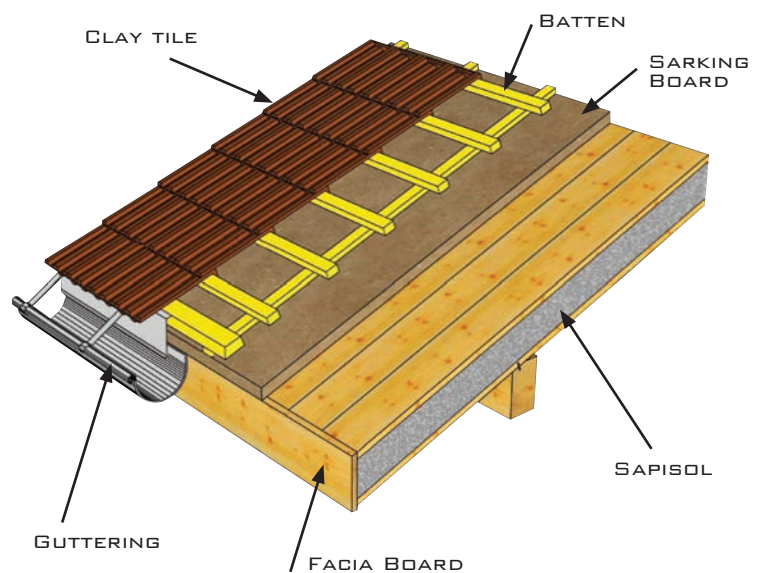
## CURVED ROOF



## MINIMUM SLOPED ROOF



## SLIGHTLY WAVED ROOF



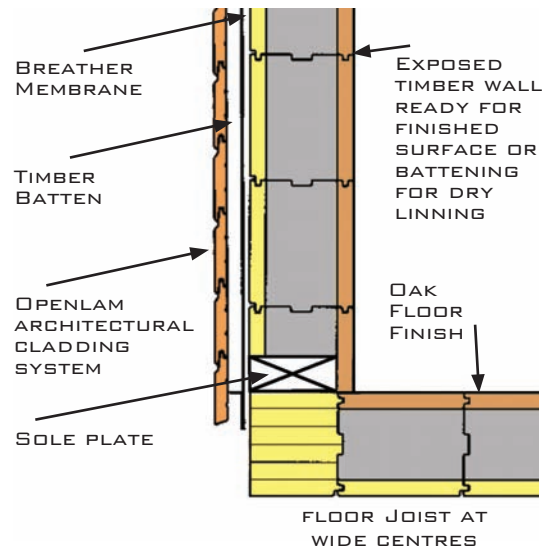




## WALLS & FLOORS

SAPISOL CAN BE USED AS INSULATED WALL CONSTRUCTION. THE PRODUCTS VERSATILITY PROVIDES MULTIPLE OPTIONS FOR INTERNAL AND EXTERNAL WALL FINISHES.

THE INTERNAL SURFACE CAN BE TREATED USING A RANGE OF PAINTS OR STAINS OR ALTERNATIVELY BATTENED TO RECEIVE DRY LINING BOARDS. EXTERNALLY SAPISOL ALLOWS FLEXIBILITY TO APPLY A WIDE RANGE OF EXTERNAL SOLUTIONS INCLUDING CLADDING SYSTEMS, RENDER AND PANELLING.



## WOOD SPECIES



SPRUCE



OAK



LARCH

## TEXTURES



SANDED



BRUSHED

## FINISHES



NATURAL  
(SANDED)



UNCOLOURED  
(SANDED)



WHITE  
(BRUSHED)



OLD FINISH  
(ONLY BRUSHED)



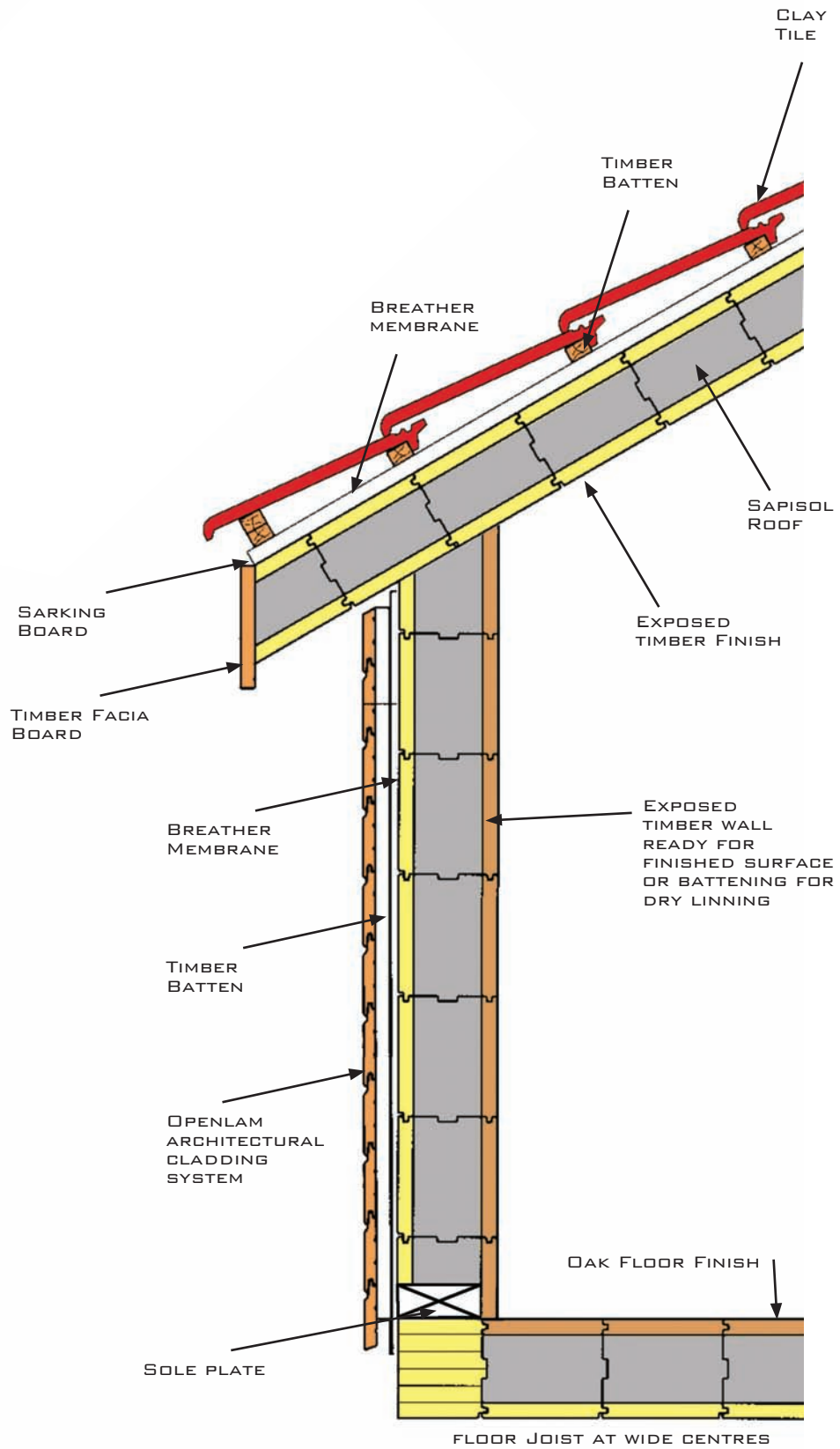
WILD CHERRY  
TREE (SANDED)

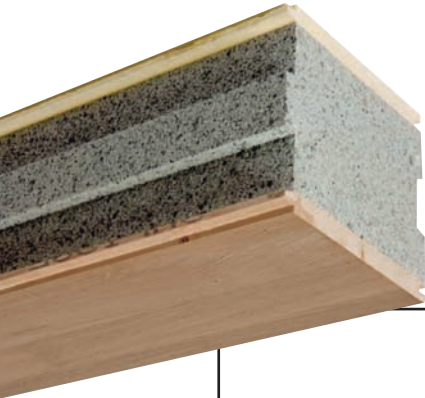


CHESTNUT  
(BRUSHED)



# SAPISOL AS WALLS FLOOR AND ROOF





TECHNICAL DATA SAPISOL

	S 86	S 136	S 160	S 186	S 220F	S 174	S 200
WOOD	20MM	20MM	20MM	20MM	20MM	27MM	27MM
PSE	46MM	96MM	120MM	146MM	180MM	120MM	146MM
WOOD	20MM	20MM	20MM	20MM	20MM	27MM	27MM
USEABLE WIDTH	205MM	205MM	205MM	205MM	205MM	205MM	205MM
WEIGHT IN KG/M <sup>2</sup>	18.70	20.16	20.90	21.70	22.70	26.80	27.60
R VALUE THEORETICAL (M <sup>2</sup> X K/W)	1.79	3.40	4.18	5.02	6.11	4.29	5.13
COEFFICIENT U (W/M <sup>2</sup> X K)	0.51	0.32	0.23	0.19	0.16	0.22	0.19
COEFFICIENT U WITH ACOUSTIC SARKING BOARD 22MM	0.41	0.28	0.21	0.18	0.15	0.20	0.17
COEFFICIENT U WITH ACOUSTIC SARKING BOARD 60MM	0.31	0.22	0.18	0.15	0.13	0.17	0.15



		3 MEMBERS A 2 MEMBERS B OVERHANG C	S 86	S 136	S 160	S 186	S 220F	S 174	S 200
OFF SETTING LOADS (DAN/M <sup>2</sup> )	100	A B C	4.00 3.20 1.00	5.00 4.00 1.40	6.00 4.80 1.60	6.30 5.00 1.80	6.30 5.00 1.80	6.70 5.30 1.80	6.80 5.40 2.00
	150	A B C	3.70 3.00 1.00	5.00 4.00 1.40	5.60 4.40 1.60	6.00 4.70 1.80	6.00 4.70 1.80	6.20 4.90 1.75	6.40 5.10 1.90
	200	A B C	3.50 2.80 0.90	4.45 3.55 1.30	5.30 4.20 1.50	5.70 4.50 1.80	5.70 4.50 1.80	5.80 4.60 1.60	6.10 4.90 1.80
	250	A B C	3.30 2.60 0.85	4.05 3.25 1.20	5.00 4.00 1.40	5.50 4.30 1.60	5.50 4.30 1.60	5.50 4.40 1.45	5.90 4.70 1.65
	300	A B C	3.10 2.50 0.80	3.70 3.00 1.10	4.60 3.70 1.30	5.10 4.00 1.50	5.10 4.00 1.50	5.20 4.10 1.30	5.60 4.50 1.50
	400	A B C	2.80 2.20 0.70	3.20 2.55 0.95	4.20 3.40 1.10	4.60 3.70 1.15	4.60 3.70 1.15	4.70 3.70 1.10	5.10 4.10 1.20



ELIGIBLE SPANS IN ML



TECHNICAL DATA SAPILEGGE



OPTION OF GROOVE  
THE LENGTHS  
OF THE BOARDS  
TO ALLOW FOR  
SERVICES

	SL 86	SL 136
		
WOOD	19MM	20MM
CORK	48MM	96MM
WOOD	19MM	20MM
USEABLE WIDTH	205MM	205MM
WEIGHT IN KG/M <sup>2</sup>	28.40	39.00
R VALUE THEORETICAL (M <sup>2</sup> X K/W)	1.38	2.44
INSULATION COEFFICIENCY (W/M <sup>2</sup> X K)	0.65	0.38

RESTING ON 3 MEMBERS		SL 136
	100	4.70
OFF	150	3.80
SETTING	200	3.20
LOADS (DAN/M <sup>2</sup> )	250	2.90
	300	2.60
	350	2.30


ELIGIBLE SPANS IN ML

RESTING ON 3 MEMBERS



OPTION OF GROOVE  
THE LENGTHS  
OF THE BOARDS  
TO ALLOW FOR  
SERVICES

TECHNICAL DATA SAPIISIN

	
WOOD	14MM
HIGH DENSITY PARTICAL BOARD	22MM
WOOD	14MM
USEABLE WIDTH	160MM
USEABLE LEGNTH	3.90M
NOISE REDUCTION	34DB

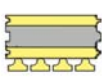
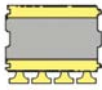
BETWEEN CENTERS A	1.80M	1.50M
ADMISSIBLE LOADS ON 3 SUPPORT ELEMENTS	280K KG/M <sup>2</sup>	350 KG/M <sup>2</sup>

RESTING ON 3 MEMBERS



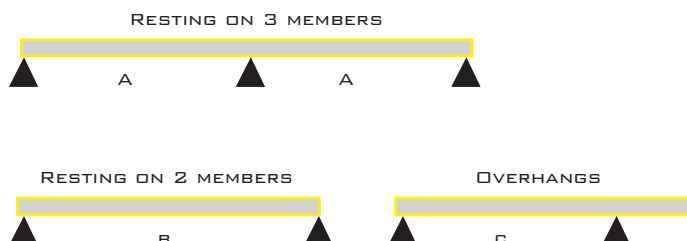
TECHNICAL DATA SAPIPHONE



	SP 108	SP 200
		
WOOD	20MM	26MM
PSE	46MM	120MM
WOOD	22MM	28MM
WOOD	20MM	26MM
USEABLE WIDTH	205MM	205MM
WEIGHT IN KG/M <sup>2</sup>	29.4	31.6
R VALUE THEORETICAL (M <sup>2</sup> X K/W)	1.62	3.92
INSULATION COEFFICIENT U (W/M <sup>2</sup> X K)	0.51	0.23
COEFFICIENT U WITH ACOUSTIC SARKING BOARD 22MM	0.41	0.21
COEFFICIENT U WITH ACOUSTIC SARKING BOARD 60MM	0.31	0.18

		3 METERS A 2 METERS B OVERHANG C	SP 108	SP 200
OFF SETTING LOADS (DAN/M <sup>2</sup> )	100	A	4.00	5.50
		B	3.20	4.40
		C	1.00	1.60
	200	A	3.60	5.10
		B	2.90	4.10
		C	0.90	1.50
	300	A	3.00	4.30
		B	2.40	3.45
		C	0.80	1.30

ELIGIBLE SPANS IN ML







**COWLEY TIMBER + PARTNERS LTD**

THE QUARRY GRANTHAM ROAD WADDINGTON LINCOLN LN5 9NT

**T:** 01522 720022 **F:** 01522 723681

**E:** MAIL@COWLEYTIMBER.CO.UK **W:** WWW.COWLEYTIMBER.CO.UK

REGISTERED OFFICE: 41 PEAR TREE STREET LONDON EC1V 3AG



ALL WOODS USED IN THE  
MANUFACTURE OF OUR  
CLADDING ARE FROM  
SUSTAINABLE FORESTS