

# ShieldBase™ 180 Flex

LAMINATED COVER BOARD

STOCK# 0925023

BOARDS PER PALLET: 65

PALLET SIZE: 104 cm x 244 cm

(41 in x 96 in)<sup>1</sup>

BOARD LENGTH: 2.44 m (8 ft)

BOARD WIDTH: 0.914 m (3 ft)

AREA: 2.23 m<sup>2</sup> (24 ft<sup>2</sup>)

BOARD THICKNESS: 12.7 mm (0.50 in)

MEMBRANE THICKNESS: 2.2 mm (87 mils)

SELVAGE: 90 mm (3.5 in)

<sup>1</sup>The loading and unloading at the receivers end must be done with minimum 6 ft fork extension (Note: extensions shorter than 6 ft may cause a safety issue)

Note: All reported values are nominal.



# COMMERCIAL®

Specify *with Confidence.*



Durable, lightweight and great for re-roofing applications, let ShieldBase 180 Flex Specialty Cover Board go to work for your next commercial construction project.

## ShieldBase 180 Flex

LAMINATED COVER BOARD

### Reinforced for Extra Durability

IKO Shieldbase 180 Flex is a composite Cover Board produced with two 3' x 4' IKOTherm Covershield pieces that are factory laminated to a 180 weight polyester reinforced SBS modified bitumen base sheet.

### Dual Selvage, Easy to Install

The dual selvage self-adhering edges of the product allow easy joining of the base to the adjacent ShieldBase boards. This allows for a quick application of the roofing system's base layer. The two piece composition allows for flexibility when handling and installing the composite board.

### Excellent for Re-Cover

ShieldBase 180 Flex is an excellent choice for re-cover applications, reducing the dead weight load of the roofing system. The CoverShield layer of the product is a lightweight and rigid foam insulation with high thermal properties, offering outstanding insulation protection and an R-Value of 2.5.

### Versatile Application Methods

ShieldBase 180 Flex be applied as a mechanically fastened system, offering a fastening pattern of 18" on-centre to reduce material and labour. Additionally, it may be adhered with IKO Millennium™ Adhesive or fully adhered with hot asphalt.



- STRONG BUT LIGHTWEIGHT
- DUAL SELVAGE

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LAMINATED COVER BOARD



# IKO

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**ShieldBase 180 Flex** Laminated Cover Boards are produced according to the requirements of CSA A123.23 Type B, Grade 3. Product has been approved for inclusion in select CSA A123.21-14 tested assemblies for wind up-lift resistance. Shieldbase 180 Flex should not be left in a folded position for extended periods of time.

Please contact your IKO Technical Representative for specific application details.

CHARACTERISTICS	UNITS	MEETS/ EXCEEDS	SPECIFICATION	TEST METHOD	TYPICAL PERFORMANCE
<b>MEMBRANE</b>					
Strain Energy, (Before and After Heat Conditioning), @ 23°C (73.4°F) MD / XD:	kN/m (lbf/in)	✔	CSA A123.23	CSA A123.23	> 5.5 (> 31)
Strain Energy, (Before and After Heat Conditioning), @ -18°C (0°F) MD / XD:	kN/m (lbf/in)	✔	CSA A123.23	CSA A123.23	> 3.0 (> 17)
Peak Load, (Before and After Heat Conditioning), @ 23°C (73.4°F) MD / XD:	kN/m (lbf/in)	✔	CSA A123.23	ASTM D5147	> 8.2 (> 46)
Peak Load, (Before and After Heat Conditioning), @ -18°C (0°F) MD / XD:	kN/m (lbf/in)	✔	CSA A123.23	ASTM D5147	> 9.0 (> 52)
Elongation at Peak Load, (Before and After Heat Conditioning), @ 23°C (73.4°F) MD / XD:	%	✔	CSA A123.23	ASTM D5147	> 27
Elongation at Peak Load, (Before and After Heat Conditioning), @ -18°C (0°F) MD / XD:	%	✔	CSA A123.23	ASTM D5147	> 19
Ultimate Elongation, (Before and After Heat Conditioning), @ 23°C (73.4°F) MD / XD:	%	✔	CSA A123.23	ASTM D5147	> 39
Mass Per Unit Area:	g/m <sup>2</sup> (lb/ft <sup>2</sup> )	✔	CSA A123.23	ASTM D5147	2600 (0.53)
Dimensional Stability:	%	✔	CSA A123.23	ASTM D5147	< 1.0
Low Temperature Flexibility:	°C (°F)	✔	CSA A123.23	ASTM D5147	< -18 (< 0.4)
Compound Stability:	°C (°F)	✔	CSA A123.23	ASTM D5147	> 102 (> 215)
Resistance to Puncture:	-	✔	CSA A123.23	CSA A123.23	pass
R-Value/RSI (Initial) [Board]:	RSI (Btu·hr·ft <sup>2</sup> ·°F)	0.44 (2.5)	CAN/ULC S704	ASTM C518	N/A
<b>BOARD</b>					
Compressive Strength:	kPa (psi)	550 to 759 (80 to 110)	CAN/ULC S704	ASTM D1621	550 (80)
Dimensional Stability @ 70°C MD / XD:	%	✔	CAN/ULC S704	ASTM D2126	±2/±2
Water Absorption:	%Vol.	✔	CAN/ULC S704	ASTM C209	3.5

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