

IKO SINGLE-PLY ROOF ASSEMBLIES

CSA A123.21

AARS -
Adhesive Applied
Roofing Systems

IKO System Identification:	AARS025	AARS026
Dynamic Wind Uplift Resistance (Tested Rating)	-6.28 kPa (-131.25 psf)	-3.59 kPa (-75 psf)
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	-4.1 kPa (-85.3 psf)	-2.3 kPa (-48.8 psf)
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	-4.19 kPa (-87.5 psf)	-2.39 kPa (-50 psf)
Roof Membrane (Cap Sheet):	IKO Innovi TPO	IKO Innovi TPO
Application:	IKO InnoviBond SPR Adhesive	IKO InnoviBond SPR Adhesive
Cover Board:	DensDeck Prime	Optional - IKOTerm Covershield or Gypsum Board
Application:	Millennium Adhesive (12" O.C.)	Millennium Adhesive (12" O.C.)
Insulation (Top Layer):	IKOTerm Insulation	IKOTerm Insulation
Application:	Millennium Adhesive (12" O.C.)	Millennium Adhesive (12" O.C.)
Insulation (Bottom Layer):	IKOTerm Insulation	IKOTerm Insulation
Application:	Millennium Adhesive (12" O.C.)	Millennium Adhesive (12" O.C.)
Vapour Retarder:	MVP	MVP
Application:	Self-Adhered	Self-Adhered
Thermal Barrier:	DensDeck Prime	Optional - Gypsum Board
Application:	Millennium Adhesive (12" O.C.)	Millennium Adhesive (12" O.C.)
Deck:	Steel Deck, 22 ga	Steel Deck, 22 ga

This summary chart is provided as a courtesy for the reader's consideration and as general information on roof assemblies, and not as specific advice on any roof assembly's suitability for a particular building design or use. Please refer to the detailed summary reports available on our website IKO.COM/COMM

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IKO SINGLE-PLY ROOF ASSEMBLIES

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PARS - Partially Attached Roofing Systems

IKO System Identification:	PARS020	PARS021	PARS022	PARS023 A
Dynamic Wind Uplift Resistance (Tested Rating)	-7.2 kPa (-150 psf)	-5.0 kPa (-105 psf)	-7.2 kPa (-150 psf)	-2.4 kPa (-50 psf)
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	-4.7 kPa (-97.5 psf)	-3.3 kPa (-68.3 psf)	-4.7 kPa (-97.5 psf)	-1.6 kPa (-33 psf)
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	-4.8 kPa (-100 psf)	-3.4 kPa (-70 psf)	-4.8 kPa (-100 psf)	-1.6 kPa (-33 psf)
Roof Membrane (Cap Sheet):	IKO Innovi TPO - 60 Mil	IKO Innovi TPO - 60 Mil	IKO Innovi TPO - 60 Mil	IKO Innovi TPO
Application:	IKO InnoviBond SPR Adhesive	IKO InnoviBond SPR Adhesive	IKO InnoviBond SPR Adhesive	IKO InnoviBond SPR Adhesive
Cover Board:	DensDeck Prime	IKOTherm Covershield	Optional - IKOTherm Covershield	IKOTherm Covershield
Application:	Fastened (1 per 1.77 sq. ft.)	Fastened (1 per 1.77 sq. ft.)	Millennium Adhesive (12" O.C.)	Millennium adhesive
Insulation (Top Layer):	IKOTherm Insulation	IKOTherm Insulation	IKOTherm Insulation	IKOTherm Insulation
Application:	Loose Laid	Loose Laid	Millennium Adhesive (12" O.C.)	Millennium adhesive
Insulation (Bottom Layer):	IKOTherm Insulation	IKOTherm Insulation	IKOTherm Insulation	IKOTherm Insulation
Application:	Loose Laid	Loose Laid	Millennium Adhesive (12" O.C.)	Fastened (8 fasteners per 4 x 8 ft. board)
Vapour Retarder:	ArmourGard Vapour Retarder	ArmourGard Vapour Retarder	MVP Sand	MVP
Application:	Loose Laid	Loose Laid	Self-Adhered	Self-Adhered
Thermal Barrier:	Optional - Gypsum Board	Optional - Gypsum Board	DensDeck Prime	DensDeck Prime
Application:	Loose Laid	Loose Laid	Fastened (1 per 1.77 sq. ft.)	Loose Laid
Deck:	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga

IKO System Identification:	PARS023 B
Dynamic Wind Uplift Resistance (Tested Rating)	-4.6 kPa (-97 psf)
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	-3.0 kPa (-63 psf))
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	-3.1 kPa (-65 psf)
Roof Membrane (Cap Sheet):	IKO Innovi TPO
Application:	IKO InnoviBond SPR Adhesive
Cover Board:	IKOTherm Covershield
Application:	Millennium adhesive
Insulation (Top Layer):	IKOTherm Insulation
Application:	Millennium adhesive
Insulation (Bottom Layer):	IKOTherm Insulation
Application:	Fastened (16 fasteners per 4 x 8 ft. board)
Vapour Retarder:	MVP
Application:	Self-Adhered
Thermal Barrier:	DensDeck Prime
Application:	Loose Laid
Deck:	Steel Deck, 22 ga

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MARS - Mechanically Attached Roofing Systems

IKO System Identification:	MARS006	MARS007	MARS008	MARS009
Dynamic Wind Uplift Resistance (Tested Rating)	-10.8 kPa (-225 psf)	-7.5 kPa (-157.5 psf)	-5.4 kPa (-112.5 psf)	-8.6 kPa (-180 psf)
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	-7.0 kPa (-146.3 psf)	-4.9 kPa (-102.4 psf)	-3.5 kPa (-73.1 psf)	-5.6 kPa (-117 psf)
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	-7.2 kPa (-150 psf)	-5.0 kPa (-105 psf)	-3.6 kPa (-75 psf)	-5.7 kPa (-120 psf)
Roof Membrane (Cap Sheet):	IKO Innovi TPO - 8' Sheet Width	IKO Innovi TPO - 8' Sheet Width	IKO Innovi TPO - 8' Sheet Width	IKO Innovi TPO - 8' Sheet Width
Application:	<i>Fastened (6" O.C. In-Seam)</i>	<i>Fastened (12" O.C. In-Seam)</i>	<i>Fastened (18" O.C. In-Seam)</i>	<i>Fastened (6" O.C. In-Seam)</i>
Cover Board:	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board
Application:	<i>Fastened (1 per 6.4 ft.²)</i>	<i>Fastened (1 per 6.4 ft.²)</i>	<i>Fastened (1 per 6.4 ft.²)</i>	<i>Fastened (1 per 6.4 ft.²)</i>
Insulation (Top Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	<i>Fastened (1 per 6.4 ft.²)</i>	<i>Fastened (1 per 6.4 ft.²)</i>	<i>Fastened (1 per 6.4 ft.²)</i>	<i>Fastened (1 per 6.4 ft.²)</i>
Insulation (Bottom Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>
Vapour Retarder:	ArmourGard Vapour Retarder	ArmourGard Vapour Retarder	ArmourGard Vapour Retarder	Optional - IKO Vapour Retarder
Application:	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>
Thermal Barrier:	DensDeck Prime	DensDeck Prime	DensDeck Prime	Optional - Gypsum Board
Application:	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>
Deck:	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga

IKO System Identification:	MARS010	MARS011	MARS012	MARS017-B
Dynamic Wind Uplift Resistance (Tested Rating)	-6.3 kPa (-131.3 psf)	-7.2 kPa (-150 psf)	-2.8 kPa (-60 psf)	-4.5 kPa (-93.8 psf)
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	-4.1 kPa (-85.3 psf)	-4.7 kPa (-97.5 psf)	-1.9 kPa (-39 psf)	-2.9 kPa (-61 psf)
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	-4.2 kPa (-87.5 psf)	-4.8 kPa (-100 psf)	-1.91 kPa (-40 psf)	-3.0 kPa (-62.5 psf)
Roof Membrane (Cap Sheet):	IKO Innovi TPO - 8' Sheet Width	IKO Innovi TPO - 5' Sheet Width	IKO Innovi TPO - 10' Sheet Width	InnoviTPO - 60 Mil
Application:	<i>Fastened (12" O.C. In-Seam)</i>	<i>Fastened (12" O.C. In-Seam)</i>	<i>Fastened (6" O.C. In-Seam)</i>	<i>Induction Welded - SFS Isoweld</i>
Cover Board:	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board
Application:	<i>Fastened (1 per 6.4 ft.²)</i>	<i>Fastened (1 per 6.4 ft.²)</i>	<i>Fastened (1 per 4 ft.²)</i>	<i>Fastened (1 per 3 ft.²)</i>
Insulation (Top Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	<i>Fastened (1 per 6.4 ft.²)</i>	<i>Fastened (1 per 6.4 ft.²)</i>	<i>Fastened (1 per 4 ft.²)</i>	<i>Fastened (1 per 3 ft.²)</i>
Insulation (Bottom Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>
Vapour Retarder:	Optional - IKO Vapour Retarder	ArmourGard Vapour Retarder	MVP	MVP
Application:	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Self-Adhered</i>	<i>Self-Adhered</i>
Thermal Barrier:	Optional - Gypsum Board	DensDeck Prime	Optional - Gypsum Board	Optional - Gypsum Board
Application:	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid, pre-secured, or adhered</i>
Deck:	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga

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MARS -

Mechanically Attached Roofing Systems

IKO System Identification:	MARS018	MARS019	MARS020	MARS021
Dynamic Wind Uplift Resistance (Tested Rating)	-5.2 kPa (-108 psf)	-4.2 kPa (-87 psf)	-3.4 kPa (-71 psf)	-3.0 kPa (-63 psf)
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	-3.4 kPa (-70.2 psf)	-2.7 kPa (-56.6 psf)	-2.2 kPa (-46.2 psf)	-2.0 kPa (-41 psf)
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	-3.4 kPa (-72 psf)	-2.8 kPa (-58 psf)	-2.3 kPa (-47.3 psf)	-2.0 kPa (-42 psf)
Roof Membrane (Cap Sheet):	InnoviTPO - 45 Mil - 10' Sheet Width	InnoviTPO - 60 Mil	InnoviTPO - 60 Mil	InnoviTPO
Application:	<i>Fastened (12" O.C. In-Seam)</i>	<i>Induction Welded - SFS Isoweld</i>	<i>Induction Welded - SFS Isoweld</i>	<i>Fastened (12" O.C. In-Seam)</i>
Cover Board:	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield
Application:	<i>Fastened (1 per 4 ft.²)</i>	<i>Fastened (1 per 4 ft.²)</i>	<i>Fastened (1 per 5.33 ft.²)</i>	<i>Fastened (5 per 4 x 8 ft. board)</i>
Insulation (Top Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	<i>Fastened (1 per 4 ft.²)</i>	<i>Fastened (1 per 4 ft.²)</i>	<i>Fastened (1 per 5.33 ft.²)</i>	<i>Fastened (5 per 4 x 8 ft. board)</i>
Insulation (Bottom Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>	<i>Loose Laid</i>
Vapour Retarder:	MVP	MVP	MVP	MVP
Application:	<i>Self-Adhered</i>	<i>Self-Adhered</i>	<i>Self-Adhered</i>	<i>Self-Adhered</i>
Thermal Barrier:	Optional - Gypsum Board	Optional - Gypsum Board	Optional - Gypsum Board	DensDeck Prime
Application:	<i>Loose Laid, pre-secured, or adhered</i>	<i>Loose Laid, pre-secured, or adhered</i>	<i>Loose Laid, pre-secured, or adhered</i>	<i>Loose Laid, pre-secured, or adhered</i>
Deck:	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga

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