

# IKO SINGLE-PLY ROOF ASSEMBLIES

## CSA A123.21

# AARS -

## Adhesive Applied Roofing Systems

IKO System Identification:	AARS025	AARS026
Dynamic Wind Uplift Resistance (Tested Rating)	<b>-6.28 kPa (-131.25 psf)</b>	<b>-3.59 kPa (-75 psf)</b>
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	<b>-4.1 kPa (-85.3 psf)</b>	<b>-2.3 kPa (-48.8 psf)</b>
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	<b>-4.19 kPa (-87.5 psf)</b>	<b>-2.39 kPa (-50 psf)</b>
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:	IKO MVP	IKO 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

# IKO SINGLE-PLY ROOF ASSEMBLIES

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# PARS -

## Partially Attached Roofing Systems

IKO System Identification:	PARS020	PARS021	PARS022
Dynamic Wind Uplift Resistance (Tested Rating)	<b>-7.2 kPa (-150 psf)</b>	<b>-5.0 kPa (-105 psf)</b>	<b>-7.2 kPa (-150 psf)</b>
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	<b>-4.7 kPa (-97.5 psf)</b>	<b>-3.3 kPa (-68.3 psf)</b>	<b>-4.7 kPa (-97.5 psf)</b>
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	<b>-4.9 kPa (-100 psf)</b>	<b>-3.4 kPa (-70 psf)</b>	<b>-4.9 kPa (-100 psf)</b>
Roof Membrane (Cap Sheet):	IKO Innovi TPO	IKO Innovi TPO	IKO Innovi TPO
Application:	IKO InnoviBond SPR Adhesive	IKO InnoviBond SPR Adhesive	IKO InnoviBond SPR Adhesive
Cover Board:	DensDeck Prime	IKOTerm Covershield	Optional - IKOTerm Covershield
Application:	Fastened (1 per 1.33 ft <sup>2</sup> )	Fastened (1 per 1.33 ft <sup>2</sup> )	Millennium Adhesive (12" O.C.)
Insulation (Top Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	Loose Laid	Loose Laid	Millennium Adhesive (12" O.C.)
Insulation (Bottom Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	Loose Laid	Loose Laid	Millennium Adhesive (12" O.C.)
Vapour Retarder:	IKO MVP	IKO MVP	IKO MVP Sand
Application:	Loose Laid	Loose Laid	Self-Adhered
Thermal Barrier:	Optional - Gypsum Board	Optional - Gypsum Board	DensDeck Prime
Application:	Loose Laid	Loose Laid	Fastened (1 per 1.33 ft <sup>2</sup> )
Deck:	Steel Deck, 22 ga	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](http://IKO.COM/COMM).

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# MARS -

## Mechanically Attached Roofing Systems

IKO System Identification:	MARS006	MARS007	MARS008
Dynamic Wind Uplift Resistance (Tested Rating)	<b>-10.8 kPa (-225 psf)</b>	<b>-7.5 kPa (-157.5 psf)</b>	<b>-5.4 kPa (-112.5 psf)</b>
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	<b>-7.0 kPa (-146.3 psf)</b>	<b>-4.9 kPa (-102.4 psf)</b>	<b>-3.5 kPa (-73.1 psf)</b>
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	<b>-7.2 kPa (-150 psf)</b>	<b>-5.0 kPa (-105 psf)</b>	<b>-3.6 kPa (-75 psf)</b>
Roof Membrane (Cap Sheet):	IKO Innovi TPO - 8' Sheet Width	IKO Innovi TPO - 8' Sheet Width	IKO Innovi TPO - 8' Sheet Width
Application:	Fastened (6" O.C. In-Seam)	Fastened (12" O.C. In-Seam)	Fastened (18" O.C. In-Seam)
Cover Board:	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board
Application:	Fastened (1 per 6.4 ft <sup>2</sup> )	Fastened (1 per 6.4 ft <sup>2</sup> )	Fastened (1 per 6.4 ft <sup>2</sup> )
Insulation (Top Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	Fastened (1 per 6.4 ft <sup>2</sup> )	Fastened (1 per 6.4 ft <sup>2</sup> )	Fastened (1 per 6.4 ft <sup>2</sup> )
Insulation (Bottom Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	Loose Laid	Loose Laid	Loose Laid
Vapour Retarder:	IKO MVP	IKO MVP	IKO MVP
Application:	Loose Laid	Loose Laid	Loose Laid
Thermal Barrier:	DensDeck Prime	DensDeck Prime	DensDeck Prime
Application:	Loose Laid	Loose Laid	Loose Laid
Deck:	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga
IKO System Identification:	MARS009	MARS010	MARS011
Dynamic Wind Uplift Resistance (Tested Rating)	<b>-8.6 kPa (-180 psf)</b>	<b>-6.3 kPa (-131.3 psf)</b>	<b>-7.2 kPa (-150 psf)</b>
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	<b>-5.6 kPa (-117 psf)</b>	<b>-4.1 kPa (-85.3 psf)</b>	<b>-4.7 kPa (-97.5 psf)</b>
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	<b>-5.7 kPa (-120 psf)</b>	<b>-4.2 kPa (-87.5 psf)</b>	<b>-4.8 kPa (-100 psf)</b>
Roof Membrane (Cap Sheet):	IKO Innovi TPO - 8' Sheet Width	IKO Innovi TPO - 8' Sheet Width	IKO Innovi TPO - 5' Sheet Width
Application:	Fastened (6" O.C. In-Seam)	Fastened (12" O.C. In-Seam)	Fastened (12" O.C. In-Seam)
Cover Board:	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board	Optional - IKOTerm Covershield or Gypsum Board
Application:	Fastened (1 per 6.4 ft <sup>2</sup> )	Fastened (1 per 6.4 ft <sup>2</sup> )	Fastened (1 per 6.4 ft <sup>2</sup> )
Insulation (Top Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	Fastened (1 per 6.4 ft <sup>2</sup> )	Fastened (1 per 6.4 ft <sup>2</sup> )	Fastened (1 per 6.4 ft <sup>2</sup> )
Insulation (Bottom Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	Loose Laid	Loose Laid	Loose Laid
Vapour Retarder:	Optional - IKO Vapour Retarder	Optional - IKO Vapour Retarder	IKO Armourgard
Application:	Loose Laid	Loose Laid	Loose Laid
Thermal Barrier:	Optional - Gypsum Board	Optional - Gypsum Board	DensDeck Prime
Application:	Loose Laid	Loose Laid	Loose Laid
Deck:	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga

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# MARS -

## Mechanically Attached Roofing Systems

IKO System Identification:	MARS012	MARS013	MARS014
Dynamic Wind Uplift Resistance (Tested Rating)	<b>-2.8 kPa (-60 psf)</b>	<b>-3.88kPa (-81 psf)</b>	<b>-4.2 kPa (-88 psf)</b>
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	<b>-1.9 kPa (-39 psf)</b>	<b>-2.5 kPa (-52.7 psf)</b>	<b>-2.7 kPa (-57.2 psf)</b>
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	<b>-1.91 kPa (-40 psf)</b>	<b>-2.59 kPa (-54 psf)</b>	<b>-2.8 kPa (-58 psf)</b>
Roof Membrane (Cap Sheet):	IKO Innovati TPO - 10' Sheet Width	IKO Innovati TPO - 60 Mil - 10' Sheet Width	IKO Innovati TPO
Application:	<i>Fastened (6" O.C. In-Seam)</i>	<i>Fastened (12" 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
Application:	Fastened (1 per 4 ft <sup>2</sup> )	Fastened (1 per 4 ft <sup>2</sup> )	Fastened (1 per 4 ft <sup>2</sup> )
Insulation (Top Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	Fastened (1 per 4 ft <sup>2</sup> )	Fastened (1 per 4 ft <sup>2</sup> )	Fastened (1 per 4 ft <sup>2</sup> )
Insulation (Bottom Layer):	IKOTerm Insulation	IKOTerm Insulation	IKOTerm Insulation
Application:	Loose Laid	Loose Laid	Loose Laid
Vapour Retarder:	IKO MVP	IKO MVP	Optional - IKO Vapour Retarder
Application:	Self-Adhered	Self-Adhered	Self-Adhered
Thermal Barrier:	Optional - Gypsum Board	Optional - Gypsum Board	Optional - Gypsum Board
Application:	Loose Laid	Loose Laid	Loose Laid
Deck:	Steel Deck, 22 ga	Steel Deck, 22 ga	Steel Deck, 22 ga

IKO System Identification:	MARS015
Dynamic Wind Uplift Resistance (Tested Rating)	<b>-2.87 kPa (-60 psf)</b>
Dynamic Wind Uplift Resistance (with 0.65x Safety Factor)	<b>-1.9 kPa (-39 psf)</b>
Dynamic Wind Uplift Resistance (with 1.5x Safety Factor)	<b>-1.9 kPa (-40 psf)</b>
Roof Membrane (Cap Sheet):	IKO Innovati TPO
Application:	<i>Induction Welded - SFS Isoweld</i>
Cover Board:	Optional - IKOTerm Covershield or Gypsum Board
Application:	Fastened (1 per 4 ft <sup>2</sup> )
Insulation (Top Layer):	IKOTerm Insulation
Application:	Fastened (1 per 4 ft <sup>2</sup> )
Insulation (Bottom Layer):	IKOTerm Insulation
Application:	Loose Laid
Vapour Retarder:	IKO MVP
Application:	Self-Adhered
Thermal Barrier:	Optional - Gypsum Board
Application:	Loose Laid
Deck:	Steel Deck, 22 ga

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