

Siplast Roof Assemblies



CSA A123.21-20 Roof Assemblies

Reference guide of Siplast CSA A123.21 Tested Roof Assemblies. Please refer to summary reports for detailed information. Siplast designed roof assemblies are tested to meet Canadian standards and exceed expectations.



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Siplast Roof Assemblies

CHRONOLOGICAL LIST

TABLE OF CONTENTS

MARS MECHANICALLY ATTACHED ROOFING SYSTEMS

SIP MARS-001.....	1	SIP MARS-004.....	1	SIP MARS-010.....	2
SIP MARS-001A.....	1	SIP MARS-005.....	1	SIP MARS-011.....	2
SIP MARS-002.....	1	SIP MARS-007.....	1	SIP MARS-012.....	2
SIP MARS-003.....	1	SIP MARS-009.....	1		

AARS ADHESIVE APPLIED ROOFING SYSTEMS

SIP AARS-001.....	3	SIP AARS-011.....	4	SIP AARS-023.....	5
SIP AARS-002.....	3	SIP AARS-012.....	4	SIP AARS-024.....	6
SIP AARS-003.....	3	SIP AARS-013.....	4	SIP AARS-025.....	6
SIP AARS-004.....	3	SIP AARS-014.....	4	SIP AARS-026.....	6
SIP AARS-005.....	3	SIP AARS-015.....	4	SIP AARS-027.....	6
SIP AARS-006.....	3	SIP AARS-016.....	5	SIP AARS-028.....	6
SIP AARS-007.....	3	SIP AARS-017.....	5	SIP AARS-030.....	6
SIP AARS-008.....	3	SIP AARS-018.....	5	SIP AARS-032.....	6
SIP AARS-009.....	4	SIP AARS-020.....	5	SIP AARS-033.....	6
SIP AARS-009A.....	4	SIP AARS-021.....	5	SIP AARS-033A.....	7
SIP AARS-010.....	4	SIP AARS-022.....	5	SIP AARS-034.....	7

PARS PARTIALLY ATTACHED ROOFING SYSTEMS

SIP PARS-001.....	8	SIP PARS-019.....	10	SIP PARS-035.....	12
SIP PARS-002.....	8	SIP PARS-020.....	10	SIP PARS-036.....	12
SIP PARS-003.....	8	SIP PARS-021.....	10	SIP PARS-037.....	12
SIP PARS-004.....	8	SIP PARS-022.....	10	SIP PARS-038.....	12
SIP PARS-005.....	8	SIP PARS-023.....	10	SIP PARS-039.....	12
SIP PARS-006.....	8	SIP PARS-024.....	10	SIP PARS-040.....	13
SIP PARS-007.....	8	SIP PARS-025.....	11	SIP PARS-041.....	13
SIP PARS-008.....	8	SIP PARS-026.....	11	SIP PARS-042.....	13
SIP PARS-009.....	9	SIP PARS-027.....	11	SIP PARS-043.....	13
SIP PARS-010.....	9	SIP PARS-028.....	11	SIP PARS-044.....	13
SIP PARS-011.....	9	SIP PARS-029.....	11	SIP PARS-045.....	13
SIP PARS-013.....	9	SIP PARS-030.....	11	SIP PARS-046.....	13
SIP PARS-014.....	9	SIP PARS-031.....	11	SIP PARS-047.....	13
SIP PARS-015.....	9	SIP PARS-032.....	11	SIP PARS-047B.....	14
SIP PARS-016.....	9	SIP PARS-033.....	12	SIP PARS-048.....	14
SIP PARS-017.....	10	SIP PARS-034A.....	12	SIP PARS-050A.....	14
SIP PARS-018.....	10	SIP PARS-034B.....	12	SIP PARS-050B.....	14

MARS MECHANICALLY ATTACHED ROOFING SYSTEMS

[Back to TOC](#)

Siplast System Identification	SIP MARS-001	SIP MARS-001A	SIP MARS-002	SIP MARS-003
<i>Uplift Resistance - Tested Value</i>	3.83 kPa (80 psf)	6.46 kPa (135 psf)	4.31 kPa (90 psf)	3.59 kPa (75 psf)
<i>Factored Design Rating</i>	2.49 kPa (52 psf)	4.20 kPa (88 psf)	2.80 kPa (58 psf)	2.33 kPa (49 psf)
Roof Membrane Cap Sheet	Paratech 180 Cap FR TG	Paratech 180 Cap FR TG	Paratech 180 Cap FR TG	Paratech 180 Cap FR TG
Securement	Torch welded	Torch welded	Torch welded	Torch welded
Membrane Base Sheet	Paratech 180 Base	Paratech 180 Base	Paratech 180 Base	Paratech 180 Base
Securement	MA @ 305 mm (12") o.c. in-seam, #12 with 60 mm (2-3/8") round barbed plate	MA @ 305 mm (12") o.c. in-seam, #15 XHD with 60 mm (2-3/8") round barbed plate	MA @ 152 mm (6") o.c. in-seam, #12 with 60 mm (2-3/8") round barbed plate	MA @ 457 mm (18") o.c. in-seam, #12 with 60 mm (2-3/8") round barbed plate
Cover Board/Ply Sheet	Optional	Optional	Optional	Optional
Securement	Pre-secured	Pre-secured	Pre-secured	Pre-secured
Insulation (Top Layer)	51 mm (2") Paratherm	51 mm (2") Paratherm	51 mm (2") Paratherm	51 mm (2") Paratherm
Securement	Pre-secured	Pre-secured	Pre-secured	Pre-secured
Insulation (Bottom Layer)	Optional	Optional	Optional	Optional
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	Self-adhered	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	Optional	Optional	Optional	Optional
Securement	Pre-secured	Pre-secured	Pre-secured	Pre-secured
Deck	Steel	Steel	Steel	Steel

Siplast System Identification	SIP MARS-004	SIP MARS-005	SIP MARS-007	SIP MARS-009
<i>Uplift Resistance - Tested Value</i>	6.46 kPa (135 psf)	5.39 kPa (112.5 psf)	4.61 kPa (96 psf)	5.21 kPa (109 psf)
<i>Factored Design Rating</i>	4.20 kPa (88 psf)	3.50 kPa (73 psf)	3.00 kPa (62 psf)	3.38 kPa (70 psf)
Roof Membrane Cap Sheet	Paratech 180 Cap FR TG	50 mil Parasolo PVC KEE	50 mil Parasolo PVC	60 mil Parasolo PVC
Securement	Torch welded	MA in-seam, #15 XHD & 2-3/8" barbed plate; fastener spacing 6" o.c.; row spacing 4.5 ft o.c.	MA in-seam, #15 XHD with 2-3/8" barbed plate; fastener spacing 12" o.c.; row spacing 9.5 ft o.c.	Rhinobond 24" x 24" grid, #15 XHD & 3" PVC Plate - 8 /bd; 1 per 4 ft²
Membrane Base Sheet	Paratech 180 Base	n/a	n/a	n/a
Securement	MA @ 6" o.c., #12 in-seam & midrow with 2-3/8" barbed plate; row spacing 18" o.c.	n/a	n/a	n/a
Cover Board/Ply Sheet	Optional	Optional	Optional	Optional
Securement	Pre-secured	Pre-secured	Pre-secured	Pre-secured
Insulation (Top Layer)	51 mm (2") Paratherm	51 mm (2") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	Pre-secured	Pre-secured	Pre-secured	Pre-secured
Insulation (Bottom Layer)	Optional	Optional	Optional	Optional
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	Self-adhered	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	Optional	Optional	Optional	Optional
Securement	Pre-secured	Loose-laid	Loose-laid	Loose-laid
Deck	Steel	Steel	Steel	Steel

MARS MECHANICALLY ATTACHED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP MARS-010	SIP MARS-011	SIP MARS-012
<i>Uplift Resistance - Tested Value</i>	6.64 kPa (139 psf)	7.42 kPa (155 psf)	3.59 kPa (75 psf)
<i>Factored Design Rating</i>	4.32 kPa (90 psf)	4.82 kPa (101 psf)	2.33 kPa (49 psf)
Roof Membrane Cap Sheet	60 mil Parasolo PVC	60 mil Parasolo PVC	Paratech 180 Base
Securement	Rhinobond 18" x 24" grid, #15 XHD & 3" PVC Plate - 12 /bd; 1 per 2.7 ft ²	Rhinobond 18" x 18" grid, #15 XHD & 3" PVC Plate - 15 / bd; 1 per 2.13 ft ²	MA @ 305 mm (12") o.c. in-seam, #14 with 60 mm (2-3/8") round barbed plate
Membrane Base Sheet	n/a	n/a	n/a
Securement	n/a	n/a	n/a
Cover Board/Ply Sheet	Optional	Optional	n/a
Securement	Pre-secured	Pre-secured	n/a
Insulation (Top Layer)	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	n/a
Securement	Pre-secured	Pre-secured	n/a
Insulation (Bottom Layer)	Optional	Optional	n/a
Securement	Loose-laid	Loose-laid	n/a
Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	n/a
Securement	Self-adhered	Self-adhered	n/a
Thermal Barrier	Optional	Optional	n/a
Securement	Loose-laid	Loose-laid	n/a
Deck	Steel	Steel	Plywood

AARS ADHESIVE APPLIED ROOFING SYSTEMS

[Back to TOC](#)

Siplast System Identification	SIP AARS-001	SIP AARS-002	SIP AARS-003	SIP AARS-004
Uplift Resistance - Tested Value	2.87 kPa (60 psf)	3.35 kPa (70 psf)	4.31 kPa (90 psf)	5.39 kPa (112.5 psf)
Factored Design Rating	1.87 kPa (40 psf)	2.18 kPa (45.5 psf)	2.80 kPa (58 psf)	3.50 kPa (73 psf)
Roof Membrane Cap Sheet	Paradiene 30 TG	Paradiene 30 TG	Paradiene 30 FR	Paradiene 30 FR TG
Securement	Torch welded	Torch welded	PA-311 R	Torch welded
Membrane Base Sheet	Paradiene 20 TG	Paradiene 20 TG	Paradiene 20	Paradiene 20
Securement	Torch welded	Torch welded	PA-311 R	Hot asphalt
Cover Board/Ply Sheet	6 mm (¼") Protectoboard	64 mm (2.5") ProtectRSS	6.4 mm (¼") Gypsum	12.7 mm (½") Siplast Fiberboard
Securement	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.	Hot asphalt
Insulation (Top Layer)	38 mm (1.5") Paratherm	---	38 mm (1.5") Paratherm	51 mm (2") Paratherm
Securement	Parafast Adhesive at 305 mm (12") o.c.	---	Parafast Adhesive at 152 mm (6") o.c.	Hot asphalt
Insulation (Bottom Layer)	38 mm (1.5") Paratherm	---	38 mm (1.5") Paratherm	8 mm (1.5") Paratherm
Securement	Parafast Adhesive at 305 mm (12") o.c.	---	Parafast Adhesive at 152 mm (6") o.c.	Hot asphalt
Vapor Retarder	Paradiene 20 SA	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Parabase
Securement	Self-adhered	Self-adhered	Self-adhered	Hot asphalt
Thermal Barrier	12.7 mm (½") DensDeck Prime	---	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum
Securement	Parafast Adhesive at 305 mm (12") o.c.	---	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Deck	Steel	Steel	Steel	Steel

Siplast System Identification	SIP AARS-005	SIP AARS-006	SIP AARS-007	SIP AARS-008
Uplift Resistance - Tested Value	4.79 kPa (100 psf)	9.58 kPa (200 psf)	4.31 kPa (90 psf)	5.39 kPa (112.5 psf)
Factored Design Rating	3.11 kPa (65 psf)	6.22 kPa (130 psf)	2.80 kPa (58 psf)	3.50 kPa (73 psf)
Roof Membrane Cap Sheet	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 TG	Paradiene 30 FR SA
Securement	Torch welded	Torch welded	Torch welded	Self-adhered
Membrane Base Sheet	Paradiene 20 TG	Paradiene 20 TS	Paradiene 20 TG	Pro Base SA
Securement	Torch welded	Torch welded	Torch welded	PVC Adhesive
Cover Board/Ply Sheet	Parabase	n/a	6.4 mm (¼") Gypsum	6.4 mm (¼") Gypsum
Securement	MA NVS fasteners	n/a	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Top Layer)	NVS LWIC	Insulcel-RT LWIC	51 mm (2") Paratherm	Optional - Paratherm
Securement	Poured in place	Poured in place	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Bottom Layer)	Insulperm	Insulperm	51 mm (2") Paratherm	38 mm (1.5") Paratherm
Securement	NVS slurry	Insulcel slurry	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.
Vapor Retarder	Irex 40	Irex 40	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	Torch welded	Torch welded	Self-adhered	Self-adhered
Thermal Barrier	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Deck	Steel	Steel	Steel	Steel

AARS ADHESIVE APPLIED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP AARS-009	SIP AARS-009A	SIP AARS-010	SIP AARS-011
<i>Uplift Resistance - Tested Value</i>	4.49 kPa (93.8 psf)	7.18 kPa (150 psf)	5.03 kPa (105 psf)	5.87 kPa (122.5 psf)
<i>Factored Design Rating</i>	2.92 kPa (61 psf)	4.67 kPa (98 psf)	3.27 kPa (68 psf)	3.81 kPa (80 psf)
Roof Membrane Cap Sheet	Paradiene 30 SA FR	Paradiene 30 SA FR	Paradiene 30 TG	Paradiene 30 FR TG
Securement	Self-adhered	Self-adhered	Torch welded	Torch welded
Membrane Base Sheet	Pro Base SA	Pro Base SA	Paradiene 20 SA	Paradiene 20 TS SA
Securement	Self-adhered	Self-adhered	Self-adhered	Self-adhered
Cover Board/Ply Sheet	6.4 mm (¼") Gypsum	6.4 mm (¼") Securock Gypsum-Fiber	Optional - Paratherm HD	12.7 mm (½") Paratherm HD
Securement	Parafast Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Insulation (Top Layer)	Optional - Paratherm	Optional - Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	Parafast Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Insulation (Bottom Layer)	51 mm (2") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	Parafast Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Irex 40
Securement	Self-adhered	Self-adhered	Self-adhered	Torch welded
Thermal Barrier	12.7 mm (½") Gypsum	12.7 mm (½") Securock Gypsum-Fiber	n/a	12.7 mm (½") Gypsum
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	n/a	Parafast Adhesive at 152 mm (6") o.c.
Deck	Steel	Steel	Steel	Steel

Siplast System Identification	SIP AARS-012	SIP AARS-013	SIP AARS-014	SIP AARS-015
<i>Uplift Resistance - Tested Value</i>	6.46 kPa (135 psf)	6.46 kPa (135 psf)	6.46 kPa (135 psf)	4.21 kPa (88 psf)
<i>Factored Design Rating</i>	4.20 kPa (88 psf)	4.20 kPa (88 psf)	4.20 kPa (88 psf)	2.74 kPa (57 psf)
Roof Membrane Cap Sheet	Paradiene 30 FR TG	Paratech Glass Cap FR TG	Paratech Glass Cap FR	50 mil Parasolo PVC
Securement	Torch welded	Torch welded	PA-311 R	Parasolo PVC Bonding Adhesive
Membrane Base Sheet	Paradiene 20 TS SA	Paratech Glass Base TG	Paratech Glass Base	n/a
Securement	Self-adhered	Torch welded	PA-311 R	n/a
Cover Board/Ply Sheet	4.8 mm (¾") Protectoboard	6.4 mm (¼") Gypsum	6.4 mm (¼") Gypsum	6.4 mm (¼") Gypsum
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Insulation (Top Layer)	51 mm (2") Paratherm	Optional - Paratherm	Optional - Paratherm	38 mm (1.5") Paratherm
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Insulation (Bottom Layer)	38 mm (1.5") Cellofoam EPS, Type IX	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	Self-adhered	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	n/a	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum
Securement	n/a	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Deck	Steel	Steel	Steel	Steel

AARS ADHESIVE APPLIED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP AARS-016	SIP AARS-017	SIP AARS-018	SIP AARS-019
<i>Uplift Resistance - Tested Value</i>	4.31 kPa (90 psf)	4.31 kPa (90 psf)	7.54 kPa (157.5 psf)	8.62 kPa (180 psf)
<i>Factored Design Rating</i>	2.80 kPa (58 psf)	2.80 kPa (58 psf)	4.90 kPa (102 psf)	5.60 kPa (117 psf)
Roof Membrane Cap Sheet	Paradiene 30 FR TG	Paradiene 30 FR	Paradiene 30 FR	Paradiene 30 FR
Securement	Torch welded	SFT Adhesive	SFT Adhesive	SFT Adhesive
Membrane Base Sheet	Paradiene 20 TG	Paradiene 20	Paradiene 20	Paradiene 20
Securement	Torch welded	SFT Adhesive	SFT Adhesive	SFT Adhesive
Cover Board/Ply Sheet	6.4 mm (¼") Gypsum	6.4 mm (¼") Gypsum	6.4 mm (¼") Gypsum	6.4 mm (¼") Gypsum
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Insulation (Top Layer)	51 mm (2") Paratherm	Optional - Paratherm	38 mm (1.5") Paratherm	Optional - Paratherm
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Insulation (Bottom Layer)	38 mm (1.5") Cellofoam EPS, Type IX	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	Self-adhered	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	n/a
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.	n/a
Deck	Steel	Steel	Steel	Steel

Siplast System Identification	SIP AARS-020	SIP AARS-021	SIP AARS-022	SIP AARS-023
<i>Uplift Resistance - Tested Value</i>	7.78 kPa (162.5 psf)	4.31 kPa (90 psf)	5.39 kPa (112.5 psf)	6.46 kPa (135 psf)
<i>Uplift Rating - Design Value</i>	5.06 kPa (105 psf)	2.80 kPa (60 psf)	3.50 kPa (73 psf)	4.20 kPa (87.8 psf)
Roof Membrane Cap Sheet	Paradiene 30 TG	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR
Securement	Torch welded	Torch welded	Torch welded	SFT Adhesive
Membrane Base Sheet	Paradiene 20 TG	Paradiene 20 TG	Paradiene 20 TS SA	Paradiene 20
Securement	Torch welded	Torch welded	Self-adhered with PA-917 primer	SFT Adhesive
Cover Board/Ply Sheet	6 mm (¼") Protectoboard	4.8 mm (¾") Protectoboard	6.4 mm (¼") Gypsum	Parabase
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.	MA Zono-Tite fasteners
Insulation (Top Layer)	38 mm (1.5") Paratherm	51 mm (2") Paratherm	38 mm (1.5") Paratherm	Insulcel LWIC
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.	Poured in place
Insulation (Bottom Layer)	38 mm (1.5") Paratherm	Optional - Paratherm	38 mm (1.5") Paratherm	Insulperm
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.	Insulcel slurry
Vapor Retarder	Irex 40	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Paradiene 20 SA
Securement	Torch welded	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	12.7 mm (½") Gypsum	n/a	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum
Securement	Parafast Adhesive at 152 mm (6") o.c.	n/a	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Deck	Steel	Plywood	Steel	Steel

AARS ADHESIVE APPLIED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP AARS-024	SIP AARS-025	SIP AARS-026	SIP AARS-027
<i>Uplift Resistance - Tested Value</i>	3.54 kPa (74 psf)	6.27 kPa (131 psf)	3.59 kPa (75 psf)	5.75 kPa (120 psf)
<i>Uplift Rating -Design Value</i>	2.30 kPa (48 psf)	4.08 kPa (85 psf)	2.33 kPa (48.8 psf)	3.73 kPa (78 psf)
Roof Membrane Cap Sheet	Paradiene 30 FR TG	Paratech 250 Cap TG	Paratech 250 Cap TG	Paradiene 30 SA FR
Securement	Torch welded	Torch welded	Torch welded	Self-adhered
Membrane Base Sheet	Paradiene 20 SA	Paratech 180 Base TG	Paratech 180 Base TG	Pro Base SA
Securement	Self-adhered	Torch welded	Torch welded	Self-adhered
Cover Board/Ply Sheet	Optional - Paratherm HD	12.7 mm (½") Gypsum	---	---
Securement	Parafast Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	---	---
Insulation (Top Layer)	38 mm (1.5") Paratherm	51 mm (2") Paratherm	52 mm (2") ROCKWOOL Multifix	38 mm (1.5") Paratherm
Securement	Parafast Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 152 mm (6") o.c.
Insulation (Bottom Layer)	38 mm (1.5") Paratherm	---	---	---
Securement	Parafast Adhesive at 305 mm (12") o.c.	---	---	---
Vapor Retarder	Siplast SA Vapor Retarder	---	---	---
Securement	Self-adhered	---	---	---
Thermal Barrier	---	---	---	---
Securement	---	---	---	---
Deck	Steel	Steel	Steel	Plywood

Siplast System Identification	SIP AARS-028	SIP AARS-030	SIP AARS-032	SIP AARS-033
<i>Uplift Resistance - Tested Value</i>	8.62 kPa (180 psf)	3.69 kPa (77 psf)	3.98 kPa (83 psf)	5.17 kPa (108 psf)
<i>Uplift Rating -Design Value</i>	5.60 kPa (117 psf)	2.40 kPa (50 psf)	2.59 kPa (54 psf)	3.35 kPa (70 psf)
Roof Membrane Cap Sheet	Paradiene 30 SA FR	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR TG
Securement	Self-adhered	Torch welded	Torch welded	Torch welded
Membrane Base Sheet	Pro Base SA	n/a	n/a	n/a
Securement	Self-adhered	n/a	n/a	n/a
Cover Board/Ply Sheet	---	Paraboard ACB	Paraboard HD	Paraboard HD
Securement	---	Parafast Adhesive splatter pattern	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 152 mm (6") o.c.
Insulation (Top Layer)	---	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	---	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 152 mm (6") o.c.
Insulation (Bottom Layer)	---	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	---	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 152 mm (6") o.c.
Vapor Retarder	---	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	---	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	---	---	---	---
Securement	---	---	---	---
Deck	Plywood	Steel	Steel	Steel

AARS ADHESIVE APPLIED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP AARS-033A	SIP AARS-034
Uplift Resistance - Tested Value	5.17 kPa (108 psf)	6.70 kPa (140 psf)
Uplift Rating -Design Value	3.36 kPa (70 psf)	4.36 kPa (91 psf)
Roof Membrane Cap Sheet	Paradiene 30 SA FR	Paradiene 30 SA FR
Securement	self-adhered to Paraboard HD primed with TA-325 or TPO Quick Spray Adhesive	self-adhered to Paraboard HD primed with TA-325 or TPO Quick Spray Adhesive
Membrane Base Sheet	n/a	n/a
Securement	n/a	n/a
Cover Board/Ply Sheet	Paraboard HD	Paraboard HD
Securement	Parafast 1-Step LRF Adhesive at 152 mm (6") o.c.	Parafast 1-Step LRF Adhesive at 105 mm (4") o.c.
Insulation (Top Layer)	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	Parafast 1-Step LRF Adhesive at 152 mm (6") o.c.	Parafast 1-Step LRF Adhesive at 105 mm (4") o.c.
Insulation (Bottom Layer)	38 mm (1.5") Paratherm	Optional
Securement	Parafast 1-Step LRF Adhesive at 152 mm (6") o.c.	Optional
Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	Self-adhered	Self-adhered
Thermal Barrier	---	---
Securement	---	---
Deck	Steel	Steel

PARS PARTIALLY ATTACHED ROOFING SYSTEMS

[Back to TOC](#)

Siplast System Identification	SIP PARS-001	SIP PARS-002	SIP PARS-003	SIP PARS-004
Uplift Resistance - Tested Value	4.31 kPa (90 psf)	2.15 kPa (45 psf)	2.15 kPa (45 psf)	2.87 kPa (60 psf)
Factored Design Rating	2.80 kPa (58 psf)	1.40 kPa (29 psf)	1.40 kPa (29 psf)	1.87 kPa (39 psf)
Roof Membrane Cap Sheet	Paradiene 30 TG	Paradiene 30 TG	Paradiene 30 TG	Paradiene 30 TG
Securement	Torch welded	Torch welded	Torch welded	Torch welded
Membrane Base Sheet	Paradiene 20 TG	Paradiene 20 TG	Paradiene 20 TG	Paradiene 20 SA
Securement	Torch welded	Torch welded	Torch welded	Self-adhered
Cover Board/Ply Sheet	12.7 mm (½") Gypsum	6 mm (¼") Protectoboard	n/a	12.7 mm (½") Gypsum
Securement	Parafast Adhesive at 305 mm (12") o.c.	#12 fastener & 3" plate - 9 /bd; 1 per 2.2 ft²	n/a	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Top Layer)	51 mm (2") Paratherm	Optional	51 mm (2") Toprock DD Plus	Optional - Paratherm
Securement	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	Loose-laid	Parafast Adhesive at 12" o.c.	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Bottom Layer)	Optional	Optional	51 mm (2") Paratherm	38 mm (1.5") Paratherm
Securement	Loose-laid	Loose-laid	# 12 fastener & 3" plate - 16 bd; 1 per 2.0 ft²	Parafast Adhesive at 305 mm (12") o.c.
Vapor Retarder	Siplast SA Vapor Retarder	Optional	Siplast SA Vapor Retarder	Paradiene 20 TG
Securement	Self-adhered	Loose-laid	Self-adhered	Torch welded
Thermal Barrier	Optional	Optional	Optional	12.7 mm (½") Gypsum
Securement	Loose-laid	Loose-laid	Loose-laid	#12 fastener & 3" plate - 8/bd; 1 per 4 ft²
Deck	Steel	Plywood	Steel	Steel

Siplast System Identification	SIP PARS-005	SIP PARS-006	SIP PARS-007	SIP PARS-008
Uplift Resistance - Tested Value	2.99 kPa (62 psf)	2.68 kPa (56 psf)	3.35 kPa (70 psf)	4.31 kPa (90 psf)
Factored Design Rating	1.95 kPa (40 psf)	1.74 kPa (36 psf)	2.18 kPa (45 psf)	2.80 kPa (58 psf)
Roof Membrane Cap Sheet	Paradiene 30	Paradiene 30 TG	Paradiene 30 TG	Paradiene 30 FR TG
Securement	PA-311 R	Torch welded	Torch welded	Torch welded
Membrane Base Sheet	Paradiene 20 SA	Paradiene 20 TG	Paradiene 20 TG	Paradiene 20 TS
Securement	PA-311 R	Torch welded	Self-adhered	Torch welded
Cover Board/Ply Sheet	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	6.4 mm (¼") Gypsum
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Top Layer)	38 mm (1.5") Paratherm	Optional - Paratherm	1.5" Paratherm	38 mm (1.5") Paratherm
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Bottom Layer)	38 mm (1.5") Paratherm or Cellofoam EPS	38 mm (1.5") Paratherm	51 mm (2") Paratherm	38 mm (1.5") Paratherm or Cellofoam EPS
Securement	Parafast Adhesive at 152 mm (6") o.c.	Parafast Adhesive at 305 mm (12") o.c.	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	Parafast Adhesive at 305 mm (12") o.c.
Vapor Retarder	Paradiene 20 SA	Paradiene 20 TG	Siplast SA Vapor Retarder	Paradiene 20 TG
Securement	Self-adhered	Torch welded	Self-adhered	Torch welded
Thermal Barrier	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	Optional	12.7 mm (½") Gypsum
Securement	#12 fastener & 3" plate - 24/bd; 1 per 1.33 ft²	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	Loose-laid	#12 fastener & 3" plate - 24/bd; 1 per 1.33 ft²
Deck	Steel	Steel	Steel	Steel

PARS PARTIALLY ATTACHED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP PARS-009	SIP PARS-010	SIP PARS-011	SIP PARS-012
<i>Uplift Resistance - Tested Value</i>	3.83 kPa (80 psf)	4.31 kPa (90 psf)	5.51 kPa (115 psf)	3.35 kPa (70 psf)
<i>Factored Design Rating</i>	2.49 kPa (52 psf)	2.80 kPa (58 psf)	3.58 kPa (75 psf)	2.18 kPa (45 psf)
Roof Membrane Cap Sheet	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR
Securement	Torch welded	Torch welded	Torch welded	PA-311 R
Membrane Base Sheet	Paradiene 20 TS SA	Paradiene 20 TS	Paradiene 20 TG	Paradiene 20
Securement	Self-adhered	Torch welded	Torch welded	PA-311 R
Cover Board/Ply Sheet	6.4 mm (¼") Gypsum	6 mm (¼") Protectoboard	n/a	6.4 mm (¼") Gypsum
Securement	#12 fastener & 3" plate - 24/bd; 1 per 1.33 ft²	Parafast Adhesive at 305 mm (12") o.c.	n/a	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Top Layer)	Optional	51 mm (2") Paratherm	2" Toprock DD Plus	51 mm (2") Paratherm
Securement	Loose-laid	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 102 mm (4") o.c.	#12 fastener & 3" plate - 24/bd; 1 per 1.33 ft²
Insulation (Bottom Layer)	Optional	38 mm (1.5") Paratherm	51 mm (2") Paratherm	Optional
Securement	Loose-laid	#12 fastener & 3" plate - 24/bd; 1 per 1.33 ft²	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	Loose-laid
Vapor Retarder	Optional	Paradiene 20 SA	Siplast SA Vapor Retarder	Paradiene 20 SA
Securement	Loose-laid	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	Optional	12.7 mm (½") Gypsum	Optional	Optional
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Deck	Plywood	Steel	Steel	Plywood

Siplast System Identification	SIP PARS-013	SIP PARS-014	SIP PARS-015	SIP PARS-016
<i>Uplift Resistance - Tested Value</i>	4.31 kPa (90 psf)	5.27 kPa (110 psf)	4.31 kPa (90 psf)	8.62 kPa (180 psf)
<i>Factored Design Rating</i>	2.80 kPa (58 psf)	3.42 kPa (71 psf)	2.80 kPa (58 psf)	5.60 kPa (117 psf)
Roof Membrane Cap Sheet	Paradiene 30 TG	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR
Securement	Torch welded	Torch welded	Torch welded	SFT Adhesive
Membrane Base Sheet	Paradiene 20	Paradiene 20 TG	Paradiene 20 SA	Paradiene 20
Securement	Mopped	Torch welded	Self-adhered	SFT Adhesive
Cover Board/Ply Sheet	6 mm (¼") Protectoboard	12.7 mm (½") Gypsum	4.8 mm (¾") Protectoboard	Parabase FS
Securement	Parafast Adhesive at 152 mm (6") o.c.	#12 fastener & 3" plate - 24/bd; 1 per 1.33 ft²	#12 fastener & 3" plate - 20/bd; 1 per 1.0 ft²	MA NVS fasteners
Insulation (Top Layer)	51 mm (2") Atlas ACFoam IV	Optional - Paratherm	Optional - Paratherm	NVS LWIC
Securement	Mopped	Loose-laid	Loose-laid	Poured in place
Insulation (Bottom Layer)	n/a	38 mm (1.5") Paratherm	38 mm (1.5") Cellofoam EPS, Type IX	Insulperm
Securement	n/a	Loose-laid	Loose-laid	NVS slurry
Vapor Retarder	Paratech Glass SA	Optional	Siplast SA Vapor Retarder	Paradiene 20 SA
Securement	Self-adhered	Optional	Self-adhered	Self-adhered
Thermal Barrier	12.7 mm (½") Gypsum	Optional	Optional	12.7 mm (½") Gypsum
Securement	#12 fastener & 3" plate - 12/bd; 1 per 2.7 ft²	Optional	Loose-laid	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²
Deck	Steel	Steel	Plywood	Steel

PARS PARTIALLY ATTACHED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP PARS-017	SIP PARS-018	SIP PARS-019	SIP PARS-020
<i>Uplift Resistance - Tested Value</i>	4.31 kPa (90 psf)	4.31 kPa (90 psf)	8.62 kPa (180 psf)	5.39 kPa (112.5 psf)
<i>Factored Design Rating</i>	2.80 kPa (58 psf)	2.80 kPa (58 psf)	5.60 kPa (117 psf)	3.59 kPa (75 psf)
Roof Membrane Cap Sheet	Paradiene 30 FR	Paratech Glass Cap FR	Paradiene 30 TG	Paradiene 30
Securement	PA-311 R	PA-311 M	Torch welded	Mopped
Membrane Base Sheet	Paradiene 20	Paratech Glass Base	Paradiene 20 TG	Paradiene 20
Securement	PA-311 R	PA-311 M	Torch welded	Mopped
Cover Board/Ply Sheet	Parabase FS	Parabase FS	6.4 mm (¼") Gypsum	12.7 mm (½") Siplast Fiberboard
Securement	MA NVS fasteners	MA NVS fasteners	Parafast Adhesive at 152 mm (6") o.c.	Mopped
Insulation (Top Layer)	NVS LWIC	NVS LWIC	51 mm (2") Paratherm	38 mm (1.5") Paratherm
Securement	Poured in place	Poured in place	Parafast Adhesive at 152 mm (6") o.c.	Mopped
Insulation (Bottom Layer)	Insulperm	Insulperm	51 mm (2") Paratherm	38 mm (1.5") Paratherm
Securement	NVS slurry	NVS slurry	Parafast Adhesive at 152 mm (6") o.c.	Mopped
Vapor Retarder	Paradiene 20 SA	Paradiene 20 SA	Irex 40	Parabase
Securement	Self-adhered	Self-adhered	Torch welded	Mopped
Thermal Barrier	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum
Securement	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	#12 fastener & 3" plate - 24/bd; 1 per 1.33 ft²	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²
Deck	Steel	Steel	Steel	Steel

Siplast System Identification	SIP PARS-021	SIP PARS-022	SIP PARS-023	SIP PARS-024
<i>Uplift Resistance - Tested Value</i>	4.31 kPa (90 psf)	3.45 kPa (72 psf)	5.39 kPa (112.5 psf)	2.69 kPa (56 psf)
<i>Factored Design Rating</i>	2.80 kPa (58 psf)	2.24 kPa (46.8 psf)	3.50 kPa (73 psf)	1.75 kPa (36 psf)
Roof Membrane Cap Sheet	Paradiene 30 TG	Paraglass IV - 3 plies + flood coat	Paratech Glass Cap TG	Paradiene 30 TG
Securement	Torch welded	Hot asphalt	Torch welded	Torch welded
Membrane Base Sheet	Paradiene 20 TG	Paratech Glass Base	Paratech Glass Base	Paradiene 20 TG
Securement	Torch welded	Hot asphalt	Mopped	Torch welded
Cover Board/Ply Sheet	6.4 mm (¼") Gypsum	Optional - Paratherm HD	12.7 mm (½") Siplast Fiberboard	Parabase FS
Securement	Parafast Adhesive at 305 mm (12") o.c.	Hot asphalt	Mopped	MA NVS fasteners
Insulation (Top Layer)	51 mm (2") Paratherm	66 mm (2.6") Paratherm	38 mm (1.5") Paratherm	NVS LWIC
Securement	Parafast Adhesive at 305 mm (12") o.c.	#12 fastener & 3" plate - 11/bd; 1 per 2.9 ft²	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	Poured in place
Insulation (Bottom Layer)	51 mm (2") Paratherm	66 mm (2.6") Paratherm	38 mm (1.5") Paratherm	Insulperm
Securement	Parafast Adhesive at 305 mm (12") o.c.	Loose-laid	Loose-laid	NVS slurry
Vapor Retarder	Siplast SA Vapor Retarder	Kraft Paper	Siplast SA Vapor Retarder	Paradiene 20 TG
Securement	Self-adhered	Loose-laid	Self-adhered	Torch welded
Thermal Barrier	12.7 mm (½") Gypsum	Optional	Optional	12.7 mm (½") Gypsum
Securement	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	Loose-laid	Loose-laid	#12 fastener & 3" plate - 20/bd; 1 per 1.6 ft²
Deck	Steel	Steel	Steel	Steel

PARS PARTIALLY ATTACHED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP PARS-025	SIP PARS-026	SIP PARS-027	SIP PARS-028
<i>Uplift Resistance - Tested Value</i>	4.31 kPa (90 psf)	5.03 kPa (105 psf)	2.87 kPa (60 psf)	3.59 kPa (75 psf)
<i>Factored Design Rating</i>	2.80 kPa (58 psf)	3.27 kPa (68 psf)	1.87 kPa (39 psf)	2.33 kPa (49 psf)
Roof Membrane Cap Sheet	Paradiene 30 FR	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR TG
Securement	PA 311 R	Torch welded	Torch welded	Torch welded
Membrane Base Sheet	Paradiene 20	Paradiene 20 TG	Paradiene 20 TG	Paradiene 20 TG
Securement	PA-311 R	Torch welded	Torch welded	Torch welded
Cover Board/Ply Sheet	4.8 mm (3/16") Protectoboard	12.7 mm (1/2") Gypsum	6.4 mm (1/4") Gypsum	6.4 mm (1/4") Gypsum
Securement	#12 fastener & 3" plate - 10/bd; 1 per 2.0 ft²	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	#12 fastener & 3" plate - 8/bd; 1 per 4.0 ft²	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²
Insulation (Top Layer)	Optional - Paratherm	Optional - Paratherm	Optional - Paratherm	Optional - Paratherm
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Insulation (Bottom Layer)	38 mm (1.5") Cellofoam EPS, Type IX	51 mm (2") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	Self-adhered	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	Optional	Optional	Optional	Optional
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Deck	Plywood	Steel	Steel	Steel

Siplast System Identification	SIP PARS-029	SIP PARS-030	SIP PARS-031	SIP PARS-032
<i>Uplift Resistance - Tested Value</i>	5.75 kPa (120 psf)	2.15 kPa (45 psf)	4.19 kPa (88 psf)	6.46 kPa (135 psf)
<i>Factored Design Rating</i>	3.73 kPa (78 psf)	1.40 kPa (29 psf)	2.72 kPa (57 psf)	4.20 kPa (88 psf)
Roof Membrane Cap Sheet	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR TG
Securement	Torch welded	Torch welded	Torch welded	Torch welded
Membrane Base Sheet	Paradiene 20 TG	Paradiene 20 TS SA	Paradiene 20 TS SA	Paradiene 20 TS SA
Securement	Torch welded	Self-adhered	Self-adhered	Self-adhered
Cover Board/Ply Sheet	6.4 mm (1/4") Gypsum	Paratherm HD	Paratherm HD	Paratherm HD
Securement	#12 fastener & 3" plate - 32/bd; 1 per 1.0 ft²	#12 fastener & 3" plate - 8/bd; 1 per 4.0 ft²	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	#12 fastener & 3" plate - 32/bd; 1 per 1.0 ft²
Insulation (Top Layer)	Optional - Paratherm	Optional - Paratherm	Optional - Paratherm	Optional - Paratherm
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Insulation (Bottom Layer)	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	Self-adhered	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	Optional	Optional	Optional	Optional
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Deck	Steel	Steel	Steel	Steel

PARS PARTIALLY ATTACHED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP PARS-033	SIP PARS-034A	SIP PARS-034B	SIP PARS-035
<i>Uplift Resistance - Tested Value</i>	2.15 kPa (45 psf)	5.39 kPa (112 psf)	5.03 kPa (105 psf)	2.73 kPa (57 psf)
<i>Factored Design Rating</i>	1.40 kPa (29 psf)	3.50 kPa (73 psf)	3.27 kPa (68 psf)	1.77 kPa (37 psf)
Roof Membrane Cap Sheet	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR TG
Securement	Torch welded	Torch welded	Torch welded	Torch welded
Membrane Base Sheet	Paradiene 20 SA	Paradiene 20 SA	Paradiene 20 SA	Paradiene 20 SA
Securement	Self-adhered	Self-adhered	Self-adhered	Self-adhered
Cover Board/Ply Sheet	Paratherm HD	Paratherm HD	Paratherm HD	Paratherm HD
Securement	#12 fastener & 3" plate - 8/bd; 1 per 4.0 ft²	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Top Layer)	38 mm (1.5") Paratherm	minimum 66 mm (2.6") Paratherm	minimum 66 mm (2.6") Paratherm	8 mm (1.5") Paratherm
Securement	Loose-laid	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	#12 fastener & 3" plate - 12/bd; 1 per 2.7 ft²	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Bottom Layer)	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	minimum 66 mm (2.6") Paratherm
Securement	Loose-laid	Loose-laid	Loose-laid	#12 fastener & 3" plate - 8/bd; 1 per 4.0 ft²
Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	Self-adhered	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	Optional	Optional	Optional	Optional
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Deck	Steel	Steel	Steel	Steel

Siplast System Identification	SIP PARS-036	SIP PARS-037	SIP PARS-038	SIP PARS-039
<i>Uplift Resistance - Tested Value</i>	7.18 kPa (150 psf)	3.59 kPa (75 psf)	1.77 kPa (37 psf)	3.23 kPa (67 psf)
<i>Factored Design Rating</i>	4.67 kPa (97.5 psf)	2.33 kPa (48.8 psf)	1.15 kPa (24.1 psf)	2.10 kPa (43.9 psf)
Roof Membrane Cap Sheet	Paratech 250 Cap TG	Paratech 250 Cap TG	Paradiene 30 SA FR	Paradiene 30 FR SA
Securement	Torch welded	Torch welded	Self-adhered	Self-adhered
Membrane Base Sheet	Paratech 180 Base TG	Paratech 180 Base TG	Pro Base SA	Pro Base SA
Securement	Torch welded	Torch welded	Self-adhered	Self-adhered
Cover Board/Ply Sheet	12.7 mm (½") Gypsum	n/a	Paratherm HD	Paratherm HD
Securement	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	n/a	Parafast Adhesive at 305 mm (12") o.c.	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Top Layer)	52 mm (2") ROCKWOOL Multifix	52 mm (2") ROCKWOOL Multifix	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	Loose-laid	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²	#12 fastener & 3" plate - 8/bd; 1 per 4.0 ft²	#12 fastener & 3" plate - 16/bd; 1 per 2.0 ft²
Insulation (Bottom Layer)	Optional	Optional	Optional	Optional
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Vapor Retarder	Paratech Glass SA	Paratech Glass SA	Optional	Optional
Securement	Self-adhered	Self-adhered	Loose-laid	Loose-laid
Thermal Barrier	Optional	Optional	Optional	Optional
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Deck	Steel	Steel	Plywood	Plywood

PARS PARTIALLY ATTACHED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP PARS-040	SIP PARS-041	SIP PARS-042	SIP PARS-043
Uplift Resistance - Tested Value	2.44 kPa (51 psf)	3.16 kPa (66 psf)	6.18 kPa (129 psf)	3.05 kPa (64 psf)
Factored Design Rating	1.59 kPa (33.2 psf)	3.05 kPa (42.9 psf)	4.01 kPa (84 psf)	1.99 kPa (41.5 psf)
Roof Membrane Cap Sheet	50 mil Parasolo PVC	50 mil Parasolo PVC	50 mil Parasolo PVC	50 mil Parasolo PVC
Securement	PVC Quick Spray Adhesive	PVC Quick Spray Adhesive	PVC Quick Spray Adhesive	PVC Quick Spray Adhesive
Membrane Base Sheet	n/a	n/a	n/a	n/a
Securement	n/a	n/a	n/a	n/a
Cover Board/Ply Sheet	Paratherm HD	Paratherm HD	Paratherm HD	Paratherm HD
Securement	MA # 12 screw with 76 mm (3") round plate - 12 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.25 m ² (2.7 ft ²)	MA # 12 screw with 76 mm (3") round plate - 16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.18 m ² (2.0 ft ²)	MA # 12 screw with 76 mm (3") round plate - 32 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.09 m ² (1.0 ft ²)	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Top Layer)	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	51 mm (2") Paratherm
Securement	Loose-laid	Loose-laid	Loose-laid	Parafast Adhesive at 305 mm (12") o.c.
Insulation (Bottom Layer)	Optional	Optional	Optional	51 mm (2") Paratherm
Securement	Loose-laid	Loose-laid	Loose-laid	#12 fastener & 3" plate - 8/bd; 1 per 4.0 ft ²
Vapor Retarder	6 mil polyethylene	6 mil polyethylene	6 mil polyethylene	6 mil polyethylene
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Thermal Barrier	Optional	Optional	Optional	Optional
Securement	Loose-laid	Loose-laid	Loose-laid	Loose-laid
Deck	Steel	Steel	Steel	Steel

Uplift Resistance - Tested Value	4.52 kPa (94.5 psf)	2.39 kPa (50 psf)	5.17 kPa (108 psf)	3.66 kPa (76.5 psf)
Factored Design Rating	2.94 kPa (61.4 psf)	1.56 kPa (32.5 psf)	3.36 kPa (70 psf)	2.38 kPa (50 psf)
Roof Membrane Cap Sheet	50 mil Parasolo PVC	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR TG
Securement	PVC Quick Spray Adhesive	Torch welded	Torch welded	Torch welded
Membrane Base Sheet	n/a	n/a	n/a	n/a
Securement	n/a	n/a	n/a	n/a
Cover Board/Ply Sheet	Paratherm HD	Paraboard HD	Paraboard HD	Paraboard HD
Securement	Parafast Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 152 mm (6") o.c.	Parafast 1-Step LRF Adhesive at 152 mm (6") o.c.	#14 fastener & 2" barbed plate. Fastener spacing 12" o.c., row spacing 36" o.c.; 1 per 3.0 ft ²
Insulation (Top Layer)	51 mm (2") Paratherm	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm	Optional
Securement	Parafast Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 152 mm (6") o.c.	Parafast 1-Step LRF Adhesive at 152 mm (6") o.c.	Loose-laid
Insulation (Bottom Layer)	51 mm (2") Paratherm	Optional	Optional	Optional
Securement	#12 fastener & 3" plate - 12/bd; 1 per 2.7 ft ²	Loose-laid	Loose-laid	Loose-laid
Vapor Retarder	6 mil polyethylene	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder	Optional
Securement	Loose-laid	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	Optional	12.7 mm (½") Gypsum	12.7 mm (½") Gypsum	Optional
Securement	Loose-laid	#12 fastener & 3" plate - 8/bd; 1 per 4.0 ft ²	#12 fastener & 3" plate - 22/bd; 1 per 1.33 ft ²	Loose-laid
Deck	Steel	Steel	Steel	Plywood

PARS PARTIALLY ATTACHED ROOFING SYSTEMS (CONTINUED)

[Back to TOC](#)

Siplast System Identification	SIP PARS-047B	SIP PARS-048	SIP PARS-050A	SIP PARS-050B
<i>Uplift Resistance - Tested Value</i>	4.55 kPa (95 psf)	6.28 kPa (131 psf)	9.70 kPa (203 psf)	11.060 kPa (231 psf)
<i>Factored Design Rating</i>	2.96 kPa (62 psf)	4.08 kPa (85 psf)	6.30 kPa (132 psf)	7.19 kPa (150 psf)
Roof Membrane Cap Sheet	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR TG	Paradiene 30 FR TG
Securement	Torch welded	Torch welded	Torch welded	Torch welded
Membrane Base Sheet	n/a	n/a	n/a	n/a
Securement	n/a	n/a	n/a	n/a
Cover Board/Ply Sheet	Paraboard HD	Paraboard HD	Paraboard HD	Paraboard HD
Securement	#14 fastener & 2" barbed plate. Fastener spacing 6" o.c., row spacing 36" o.c.; 1 per 1.50 ft²	#14 fastener & 2" barbed plate. Fastener spacing 12" o.c.; row spacing 18" o.c.; 1 per 1.50 ft²	#14 fastener & 2" barbed plate. Fasteners 12" o.c.; in lap & 2 rows 4" from centre; 1 per 1.00 ft²	#15 fastener & 2" barbed plate. Fasteners 6" o.c.; in lap & 2 rows 4" from centre; 1 per 0.50 ft²
Insulation (Top Layer)	Optional	Optional	38 mm (1.5") Paratherm	38 mm (1.5") Paratherm
Securement	Loose-laid	Loose-laid	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.
Insulation (Bottom Layer)	Optional	Optional	Optional	Optional
Securement	Loose-laid	Loose-laid	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.
Vapor Retarder	Optional	Optional	Siplast SA Vapor Retarder	Siplast SA Vapor Retarder
Securement	Self-adhered	Self-adhered	Self-adhered	Self-adhered
Thermal Barrier	Optional	Optional	Optional	Optional
Securement	Loose-laid	Loose-laid	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.	Parafast 1-Step LRF Adhesive at 305 mm (12") o.c.
Deck	Plywood	Plywood	Steel	Steel