



Siplast Roof Assemblies

CSA A123.21-20

Refer to CSA summary reports for detailed information.

Rev. 12-2022

AARS (Adhesive Applied Roofing Systems)

SIP AARS-001	SIP AARS-002	SIP AARS-003	SIP AARS-004
Tested Value: 2.87 kPa (60 psf)	Tested Value: 3.35 kPa (70 psf)	Tested Value: 4.31 kPa (90 psf)	Tested Value: 5.39 kPa (112.5 psf)
Design Value: 1.87 kPa (40 psf)	Design Value: 2.18 kPa (45.5 psf)	Design Value: 2.80 kPa (58 psf)	Design Value: 3.50 kPa (73 psf)
Paradiene 30 TG <i>Heat-welded</i>	Paradiene 30 TG <i>Heat-welded</i>	Paradiene 30 FR <i>PA-311 R</i>	Paradiene 30 FR TG <i>Heat-welded</i>
Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 <i>PA-311 R</i>	Paradiene 20 <i>Hot asphalt</i>
Protectoboard 6 mm (1/4") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	ProtectRSS 64 mm (2.5") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Gypsum 6.4 mm (1/4") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Siplast Fiberboard 12.7 mm (1/2") <i>Hot asphalt</i>
Paratherm 38 mm (1.5") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	n/a	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 51 mm (2") <i>Hot asphalt</i>
Paratherm 38 mm (1.5") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	n/a	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 38 mm (1.5") <i>Hot asphalt</i>
Paradiene 20 SA <i>Self-adhered</i>	Bakor Vapor-Bloc SA <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Parabase <i>Hot asphalt</i>
DensDeck Prime 12.7 mm (1/2") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	n/a	Gypsum 12.7 mm (1/2") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Gypsum 12.7 mm (1/2") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
Steel	Steel	Steel	Steel
SIP AARS-005	SIP AARS-006	SIP AARS-007	SIP AARS-008
Tested Value: 4.79 kPa (100 psf)	Tested Value: 9.58 kPa (200 psf)	Tested Value: 4.31 kPa (90 psf)	Tested Value: 5.39 kPa (112.5 psf)
Design Value: 3.11 kPa (65 psf)	Design Value: 6.22 kPa (130 psf)	Design Value: 2.80 kPa (58 psf)	Design Value: 3.50 kPa (73 psf)
Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 SA FR <i>Self-adhered</i>
Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 TS <i>Heat-welded</i>	Paradiene 20 TS <i>Heat-welded</i>	Pro Base SA <i>low VOC PVC Adhesive</i>
Parabase <i>MA NVS fasteners</i>	n/a	Protectoboard 4.8 mm (3/16") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Gypsum 6.4 mm (1/4") <i>Parafast Adhesive at 305 mm (12") o.c.</i>
NVS LWIC <i>poured in place</i>	Insulcel-RT LWIC <i>poured in place</i>	n/a	n/a
n/a	n/a	Paratherm 51 mm (2") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 305 mm (12") o.c.</i>
Irex 40 <i>Heat-welded</i>	Irex 40 <i>Heat-welded</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>
Gypsum 12.7 mm (1/2") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Gypsum 12.7 mm (1/2") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	n/a	Gypsum 12.7 mm (1/2") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
Steel	Steel	Plywood	Steel



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AARS (Adhesive Applied Roofing Systems)

SIP AARS-009	SIP AARS-010	SIP AARS-011	SIP AARS-012
Tested Value: 4.49 kPa (93.8 psf)	Tested Value: 5.03 kPa (105 psf)	Tested Value: 5.87 kPa (122.5 psf)	Tested Value: 6.46 kPa (135 psf)
Design Value: 2.92 kPa (61 psf)	Design Value: 3.27 kPa (68 psf)	Design Value: 3.81 kPa (80 psf)	Design Value: 4.20 kPa (88 psf)
Paradiene 30 SA FR <i>Self-adhered</i>	Paradiene 30 TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>
Pro Base SA <i>Self-adhered</i>	Paradiene 20 SA <i>Self-adhered</i>	Paradiene 20 TS SA <i>Self-adhered</i>	Paradiene 20 TS SA <i>Self-adhered</i>
Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	n/a	ACFoam-HD 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Protectoboard 4.8 mm (3/16") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
n/a	n/a	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 51 mm (2") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
Paratherm 51 mm (2") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Cellofoam EPS, Type IX 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
Siplast SA Vapor Retarder <i>Self-adhered</i>	Bakor Vapor-Bloc SA <i>Self-adhered</i>	Irex 40 <i>Heat-welded</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>
Gypsum 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	n/a	Gypsum 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	n/a
Steel	Steel	Steel	Steel
SIP AARS-013	SIP AARS-014	SIP AARS-0015	SIP AARS-016
Tested Value: 6.46 kPa (135 psf)	Tested Value: 6.46 kPa (135 psf)	Tested Value: 4.21 kPa (88 psf)	Tested Value: 4.31 kPa (90 psf)
Design Value: 4.20 kPa (88 psf)	Design Value: 4.20 kPa (88 psf)	Design Value: 2.74 kPa (57 psf)	Design Value: 2.80 kPa (58 psf)
Paratech Glass Cap FR TG <i>Heat-welded</i>	Paratech Glass Cap FR <i>PA-311 R</i>	Parasolo PVC 50 mil <i>Parasolo PVC Bonding Adhesive</i>	Paradiene 30 FR TG <i>Heat-welded</i>
Paratech Glass Base TG <i>Heat-welded</i>	Paratech Glass Base <i>PA-311 R</i>	n/a	Paradiene 20 TG <i>Heat-welded</i>
Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
n/a	n/a	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 51 mm (2") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
Paratherm 38 mm (1.5") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Cellofoam EPS, Type IX 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
Siplast SA Vapor Retarder <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Firestone V-Force <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>
Gypsum 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Gypsum 12.7 mm (½") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Gypsum 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Gypsum 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
Steel	Steel	Steel	Steel



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AARS (Adhesive Applied Roofing Systems)

SIP AARS-017	SIP AARS-018	SIP AARS-019	SIP AARS-020
Tested Value: 4.31 kPa (90 psf)	Tested Value: 7.54 kPa (157.5 psf)	Tested Value: 8.62 kPa (180 psf)	Tested Value: 7.78 kPa (162.5 psf)
Design Value: 2.80 kPa (58 psf)	Design Value: 4.90 kPa (102 psf)	Design Value: 5.60 kPa (117 psf)	Design Value: 5.06 kPa (105 psf)
Paradiene 30 SA FR <i>Self-adhered</i>	Paradiene 30 FR <i>SFT Adhesive</i>	Paradiene 30 FR <i>SFT Adhesive</i>	Paradiene 30 TG <i>Heat-welded</i>
Pro Base SA <i>Self-adhered</i>	Paradiene 20 <i>SFT Adhesive</i>	Paradiene 20 <i>SFT Adhesive</i>	Paradiene 20 TG <i>Heat-welded</i>
Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Protectoboard 6 mm (¼") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
n/a	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	n/a	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
n/a	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
Paratherm 51 mm (2") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
Siplast SA Vapor Retarder <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Irex 40 <i>Heat-welded</i>
Gypsum 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Gypsum 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	n/a	Gypsum 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
Steel	Steel	Steel	Steel
SIP AARS-021	SIP AARS-022		
Tested Value: 4.31 kPa (90 psf)	Tested Value: 5.39 kPa (112.5 psf)		
Design Value: 2.80 kPa (60 psf)	Design Value: 3.50 kPa (73 psf)		
Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>		
Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 TS SA <i>Self-adhered with PA-917 primer</i>		
Protectoboard 4.8 mm (3/16") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Gypsum 6.4mm (1/4") <i>Parafast Adhesive at 152 mm (6") o.c.</i>		
Paratherm 51 mm (2") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>		
n/a	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>		
n/a	Siplast SA Vapor Retarder <i>Self-adhered</i>		
Siplast SA Vapor Retarder <i>Self-adhered</i>	Gypsum 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>		
n/a	Steel		
n/a			
Plywood			



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PARS (Partially Attached Roofing Systems)

SIP PARS-001	SIP PARS-002	SIP PARS-003	SIP PARS-004
Tested Value: 4.31 kPa (90 psf)	Tested Value: 2.15 kPa (45 psf)	Tested Value: 2.15 kPa (45 psf)	Tested Value: 2.87 kPa (60 psf)
Design Value: 2.80 kPa (58 psf)	Design Value: 1.40 kPa (29 psf)	Design Value: 1.40 kPa (29 psf)	Design Value: 1.87 kPa (39 psf)
Paradiene 30 TG <i>Heat-welded</i>	Paradiene 30 TG <i>Heat-welded</i>	Paradiene 30 TG <i>Heat-welded</i>	Paradiene 30 TG <i>Heat-welded</i>
Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 SA <i>Self-adhered</i>
Gypsum 12.7 mm (½") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Protectoboard 6 mm (¼") <i>8 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.37 m² (4 ft²)</i>	n/a	Gypsum 12.7 mm (½") <i>Parafast Adhesive at 305 mm (12") o.c.</i>
Paratherm 51 mm (2") <i>16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>	n/a	51 mm (2") Toprock DD Plus <i>Parafast Adhesive at 305 mm (12") o.c.</i>	n/a
n/a	n/a	Paratherm 51 mm (2") <i>16 screws/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>	38 mm (1.5") Paratherm <i>Parafast Adhesive at 305 mm (12") o.c.</i>
n/a	n/a	Siplast SA Vapor Retarder <i>Self-adhered</i>	Paradiene 20 TG <i>Heat-welded</i>
Siplast SA Vapor Retarder <i>Self-adhered</i>	n/a	n/a	Gypsum 12.7 mm (½") <i>8 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.37 m² (4 ft²)</i>
n/a	n/a	n/a	Steel
Steel	Plywood	Steel	Steel
SIP PARS-005	SIP PARS-006	SIP PARS-007	SIP PARS-008
Tested Value: 2.99 kPa (62 psf)	Tested Value: 2.68 kPa (56 psf)	Tested Value: 3.35 kPa (70 psf)	Tested Value: 4.31 kPa (90 psf)
Design Value: 1.95 kPa (40 psf)	Design Value: 1.74 kPa (36 psf)	Design Value: 2.18 kPa (45 psf)	Design Value: 2.80 kPa (58 psf)
Paradiene 30 <i>PA-311 R</i>	Paradiene 30 TG <i>Heat-welded</i>	Paradiene 30 TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>
Paradiene 20 SA <i>PA-311 R</i>	Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 TG <i>Self-adhered</i>	Paradiene 20 TS <i>Heat-welded</i>
Gypsum 12.7 mm (½") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Gypsum 12.7 mm (½") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Gypsum 12.7 mm (½") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 305 mm (12") o.c.</i>
Paratherm 38 mm (1.5") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	n/a	1.5" Paratherm <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 305 mm (12") o.c.</i>
Paratherm or Cellofoam EPS 38 mm <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 38 mm (1.5") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Paratherm 51 mm (2") <i>16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>	Paratherm 38 mm (1.5") or Cellofoam EPS <i>Parafast Adhesive at 305 mm (12") o.c.</i>
Paradiene 20 SA <i>Self-adhered</i>	Paradiene 20 TG <i>Heat-welded</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Paradiene 20 TG <i>Heat-welded</i>
Gypsum 12.7 mm (½") <i>24 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.124 m² (1.33 ft²)</i>	Gypsum 12.7 mm (½") <i>16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>	n/a	Gypsum 12.7 mm (½") <i>24 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.124 m² (1.33 ft²)</i>
Steel	Steel	Steel	Steel



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PARS (Partially Attached Roofing Systems)

SIP PARS-009	SIP PARS-010	SIP PARS-011	SIP PARS-012
Tested Value: 3.83 kPa (80 psf)	Tested Value: 4.31 kPa (90 psf)	Tested Value: 5.51 kPa (115 psf)	Tested Value: 3.35 kPa (70 psf)
Design Value: 2.49 kPa (52 psf)	Design Value: 2.80 kPa (58 psf)	Design Value: 3.58 kPa (75 psf)	Design Value: 2.18 kPa (45 psf)
Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR <i>PA-311 R</i>
Paradiene 20 TS SA <i>Self-adhered</i>	Paradiene 20 TS <i>Heat-welded</i>	Paradiene 20 TS <i>Heat-welded</i>	Paradiene 20 <i>PA-311 R</i>
Gypsum 6.4 mm (¼") 24 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.124 m ² (1.33 ft ²)	Protectoboard 6 mm (¼") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	n/a	Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 152 mm (6") o.c.</i>
n/a	Paratherm 51 mm (2") <i>Parafast Adhesive at 305 mm (12") o.c.</i>	Toprock DD Plus 2" <i>Parafast Adhesive at 102 mm (4") o.c.</i>	Paratherm 51 mm (2") 24 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.124 m ² (1.33 ft ²)
n/a	Paratherm 38 mm (1.5") 4 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.124 m ² (1.33 ft ²)	Paratherm 51 mm (2") 16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m ² (2.0 ft ²)	n/a
n/a	Paradiene 20 SA <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Paradiene 20 SA <i>Self-adhered</i>
n/a	Gypsum 12.7 mm (½") 8 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.37 m ² (4 ft ²)	n/a	n/a
n/a	Steel	Steel	Plywood
SIP PARS-013	SIP PARS-014	SIP PARS-015	SIP PARS-016
Tested Value: 4.31 kPa (90 psf)	Tested Value: 5.27 kPa (110 psf)	Tested Value: 4.31 kPa (90 psf)	Tested Value: 8.62 kPa (180 psf)
Design Value: 2.80 kPa (58 psf)	Design Value: 3.42 kPa (71 psf)	Design Value: 2.80 kPa (58 psf)	Design Value: 5.60 kPa (117 psf)
Paradiene 30 TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR <i>SFT Adhesive</i>
Paradiene 20 <i>mopped</i>	Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 SA <i>Self-adhered</i>	Paradiene 20 <i>SFT Adhesive</i>
Protectoboard 6 mm (¼") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Gypsum 12.7 mm (½") 24 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.124 m ² (1.33 ft ²)	4.8 mm (3/16") Protectoboard 20 fasteners/1220 x 1524 mm (4' x 5') board; 1 per 0.093 m ² (1.0 ft ²)	Parabase FM <i>MA NVS fasteners 7" o.c. in lap & 3 rows spaced and staggered 7" o.c. in the field</i>
Atlas ACFoam IV 51 mm (2") <i>mopped</i>	n/a	n/a	NVS 1" top pour with 2" Insulperm n/a
n/a	Paratherm 38 mm (1.5") <i>loose laid</i>	Cellofoam EPS, Type IX 38 mm (1.5") <i>loose laid</i>	NVS slurry 1/8" n/a
Tradesman SA Glass Base <i>Self-adhered</i>	n/a	Siplast SA Vapor Retarder <i>Self-adhered</i>	Paradiene 20 SA <i>Self-adhered</i>
Gypsum 12.7 mm (½") 6 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.50 m ² (5.33 ft ²)	n/a	n/a	Gypsum 12.7 mm (½") 16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m ² (2.0 ft ²)
Steel	Steel	Plywood	Steel



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PARS (Partially Attached Roofing Systems)

SIP PARS-017	SIP PARS-018	SIP PARS-019	SIP PARS-020
Tested Value: 4.31 kPa (90 psf)	Tested Value: 4.31 kPa (90 psf)	Tested Value: 8.62 kPa (180 psf)	Tested Value: 5.39 kPa (112.5 psf)
Design Value: 2.80 kPa (58 psf)	Design Value: 2.80 kPa (58 psf)	Design Value: 5.60 kPa (117 psf)	Design Value: 3.59 kPa (75 psf)
Paradiene 30 FR <i>PA-311 R</i>	Paratech Glass Cap FR <i>PA-311 M</i>	Paradiene 30 TG <i>Heat-welded</i>	Paradiene 30 <i>mopped</i>
Paradiene 20 <i>PA-311 R</i>	Paratech Glass Base <i>PA-311 M</i>	Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 <i>mopped</i>
Parabase FM <i>MA NVS fasteners 7" o.c. in lap & 3 rows spaced and staggered 7" o.c. in the field</i>	Parabase FM <i>MA NVS fasteners 7" o.c. in lap & 3 rows spaced and staggered 7" o.c. in the field</i>	Gypsum 6.4 mm (¼") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Siplast Fiberboard 12.7 mm (½") <i>mopped</i>
NVS 1" top pour with 2" Insulperm <i>n/a</i>	NVS 1" top pour with 2" Insulperm <i>n/a</i>	Paratherm 51 mm (2") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 38 mm (1.5") <i>mopped</i>
NVS slurry 1/8" <i>n/a</i>	NVS slurry 1/8" <i>n/a</i>	Paratherm 51 mm (2") <i>Parafast Adhesive at 152 mm (6") o.c.</i>	Paratherm 38 mm (1.5") <i>mopped</i>
Paradiene 20 SA <i>Self-adhered</i>	Paradiene 20 SA <i>Self-adhered</i>	Irex 40 <i>Heat-welded</i>	Parabase <i>mopped</i>
Gypsum 12.7 mm (½") <i>16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>	Gypsum 12.7 mm (½") <i>16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>	Gypsum 12.7 mm (½") <i>24 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.124 m² (1.33 ft²)</i>	Gypsum 12.7 mm (½") <i>24 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.124 m² (1.33 ft²)</i>
Steel	Steel	Steel	Steel
SIP PARS-021	SIP PARS-022	SIP PARS-023	SIP PARS-024
Tested Value: 4.31 kPa (90 psf)	Tested Value: Pending	Tested Value: 5.39 kPa (112.5 psf)	Tested Value: 2.69 kPa (56 psf)
Design Value: 2.80 kPa (58 psf)	Design Value: Pending	Design Value: 3.50 kPa (73 psf)	Design Value: 1.75 kPa (36 psf)
Paradiene 30 TG <i>Heat-welded</i>		Paratech Glass Cap TG <i>Heat-welded</i>	Paradiene 30 TG <i>Heat-welded</i>
Paradiene 20 TG <i>Heat-welded</i>		Paratech Glass Base <i>mopped</i>	Paradiene 20 TG <i>Heat-welded</i>
Gypsum 12.7 mm (½") <i>Parafast Adhesive at 305 mm (12") o.c.</i>		Siplast Fiberboard 12.7 mm (½") <i>mopped</i>	Parabase FM <i>MA NVS fasteners 7" o.c. in lap & 3 rows spaced and staggered 7" o.c. in the field</i>
Paratherm 51 mm (2") <i>Parafast Adhesive at 305 mm (12") o.c.</i>		Paratherm 38 mm (1.5") <i>MA</i>	NVS 1" top pour with 2" Insulperm <i>n/a</i>
Paratherm 51 mm (2") <i>Parafast Adhesive at 305 mm (12") o.c.</i>		Paratherm 38 mm (1.5") <i>loose laid</i>	NVS slurry 1/8" <i>n/a</i>
Siplast SA Vapor Retarder <i>Self-adhered</i>		Siplast SA Vapor Retarder <i>Self-adhered</i>	Paradiene 20 TG <i>Heat-welded</i>
Gypsum 12.7 mm (½") <i>16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>		<i>n/a</i>	Gypsum 12.7 mm (½") <i>20 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.15 m² (1.6 ft²)</i>
Steel		Steel	Steel



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Siplast Roof Assemblies

CSA A123.21-20

Refer to CSA summary reports for detailed information.

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PARS (Partially Attached Roofing Systems)

SIP PARS-025	SIP PARS-026	SIP PARS-027	SIP PARS-028
Tested Value: 4.31 kPa (90 psf)	Tested Value: 3.35 kPa (70 psf)	Tested Value: 2.87 kPa (60 psf)	Tested Value: 3.59 kPa (75 psf)
Design Value: 2.80 kPa (58 psf)	Design Value: 2.18 kPa (45 psf)	Design Value: 1.87 kPa (39 psf)	Design Value: 2.33 kPa (49 psf)
Paradiene 30 FR <i>PA 311 R</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>
Paradiene 20 <i>PA-311 R</i>	Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 TG <i>Heat-welded</i>
Protectoboard 4.8 mm (3/16") <i>10 fasteners/1220 x 1524 mm (4' x 5') board; 1 per 0.19 m² (2.0 ft²)</i>	Gypsum 12.7 mm (½") <i>16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>	Gypsum 6.4 mm (¼") <i>8 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.37 m² (4.0 ft²)</i>	Gypsum 12.7 mm (½") <i>16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>
n/a	n/a	n/a	n/a
<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
Cellofoam EPS, Type IX 38 mm (1.5") <i>loose laid</i>	Paratherm 51 mm (2") <i>loose laid</i>	Paratherm 38 mm (1.5") <i>loose laid</i>	Paratherm 51 mm (2") <i>loose laid</i>
Siplast SA Vapor Retarder <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>
n/a	n/a	n/a	n/a
<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
Plywood	Steel	Steel	Steel
SIP PARS-029	SIP PARS-030	SIP PARS-031	SIP PARS-032
Tested Value: 5.75 kPa (120 psf)	Tested Value: Pending	Tested Value: 4.19 kPa (88 psf)	Tested Value: 6.46 kPa (135 psf)
Design Value: 3.73 kPa (78 psf)	Design Value: Pending	Design Value: 2.72 kPa (57 psf)	Design Value: 4.20 kPa (88 psf)
Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>	Paradiene 30 FR TG <i>Heat-welded</i>
Paradiene 20 TG <i>Heat-welded</i>	Paradiene 20 TS SA <i>Heat-welded</i>	Paradiene 20 TS SA <i>Heat-welded</i>	Paradiene 20 TS SA <i>Heat-welded</i>
Gypsum 6.4 mm (¼") <i>32 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.09 m² (1.0 ft²)</i>	Paratherm HD <i>8 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.37 m² (4.0 ft²)</i>	Paratherm HD <i>16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>	Gypsum 12.7 mm (½") <i>16 fasteners/1220 x 2440 mm (4' x 8') board; 1 per 0.19 m² (2.0 ft²)</i>
n/a	n/a	n/a	n/a
<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
Paratherm 38 mm (1.5") <i>loose laid</i>	Paratherm 38 mm (1.5") <i>loose laid</i>	Paratherm 38 mm (1.5") <i>loose laid</i>	Paratherm 51 mm (2") <i>loose laid</i>
Siplast SA Vapor Retarder <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>	Siplast SA Vapor Retarder <i>Self-adhered</i>
n/a	n/a	n/a	n/a
<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
Steel	Steel	Steel	Steel