



WATERPROOFING

METHOD 1

MARS - Mechanically fastened roofing systems

ROOF ASSEMBLIES

CSA A123.21

ROOF ASSEMBLIES 180208SCANE

Supersedes : 170322SCANE

SOPRAFIX

* Values in parenthesis include safety factor.
Safety factor: As required by in the CSA A 123.21 standard, the published Dynamic Uplift Resistance (DUR) are reduces by a safety factor of 1.5 (SF of 1.5).

SOPI-015-059			SOPI-020-059-008		
Steel deck	Steel deck	Steel deck	Steel deck	Plywood 5/8	Plywood 5/8
Sopravap'r	Sopravap'r	Sopravap'r	Sopravap'r	Soprafix Base 630	Soprafix Base 630
Sopra-Iso	Sopra-Iso	Sopra-Iso	Sopra-Iso	M.F. (150 mm [6 in] o.c.)	M.F. (305 mm [12 in] o.c.)
Soprafix Base 630	Soprafix Base 630	Soprafix Base 630	Soprafix Base 630	Soprafix Traffic Cap 660	Soprafix Traffic Cap 660
M.F. (150 mm [6 in] o.c.)	M.F. (305 mm [12 in] o.c.)	M.F. (457 mm [18 in] o.c.)	M.F. (610 mm [24 in] o.c.)		
Soprafix Traffic Cap 660	Soprafix Traffic Cap 660	Soprafix Traffic Cap 660	Soprafix Traffic Cap 660		
195 (130) psf	105 (70) psf	75 (50) psf	62.5 (41.7) psf	100 (66.7) psf	60 (40) psf
9.3 (6.2) kPa	5.0 (3.4) kPa	3.6 (2.4) kPa	3.0 (2.0) kPa	4.8 (3.2) kPa	2.9 (1.9) kPa
					50 (33.3) psf
					2.4 (1.6) kPa

SOPRABASE HD

SOPI-019-059-200		
Steel deck	Steel deck	Steel deck
Sopravap'r	Sopravap'r	Sopravap'r
Sopra-Iso	Sopra-Iso	Sopra-Iso
Soprabase HD	Soprabase HD	Soprabase HD
M.F. (305 mm [12 in] o.c., SOP23-3)	M.F. (457 mm [18 in] o.c., SOP23-3)	M.F. (610 mm [24 in] o.c., SOP23-3)
* Two (2) rows of fasteners	* Two (2) rows of fasteners	* Two (2) rows of fasteners
Sopralene Flam 180 GR	Sopralene Flam 180 GR	Sopralene Flam 250 GR
162.5 (108.3) psf	105 (70) psf	75 (50) psf
7.8 (5.2) kPa	5.0 (3.4) kPa	3.6 (2.4) kPa

XPRESS BOARD HD

SOPI-016-059-200		
Steel deck	Steel deck	Steel deck
Sopravap'r	Sopravap'r	Sopravap'r
Sopra-Iso	Sopra-Iso	Sopra-Iso
Xpress Board HD	Xpress Board HD	Xpress Board HD
M.F. (150 mm [6 in] o.c., center)	M.F. (305 mm [12 in] o.c., center)	M.F. (457 mm [18 in] o.c., lap)
Sopralene Flam 180 GR	Sopralene Flam 180 GR	Sopralene Flam 180 GR
150 (100) psf	100 (66.7) psf	60 (40) psf
7.2 (4.8) kPa	4.8 (3.2) kPa	2.9 (1.9) kPa

UNILAY

SOPI-216809-T8			
Steel deck	Steel deck	Steel deck	Steel deck
Sopravap'r	Sopravap'r	Sopravap'r	Sopravap'r
Sopra-Iso	Sopra-Iso	Sopra-Iso	Sopra-Iso
Unilay 750	Unilay 750	Unilay 750	Unilay 750
M.F. (150 mm [6 in] o.c.)	M.F. (305 mm [12 in] o.c.)	M.F. (457 mm [18 in] o.c.)	M.F. (610 mm [24 in] o.c.)
162.5 (108.3) psf	126 (84) psf	90 (60) psf	62 (41) psf
7.8 (5.2) kPa	6.0 (4.0) kPa	4.3 (2.9) kPa	3.0 (2.0) kPa

ELASTOPHENE 180 PS DG

SOPI-00200939-03-5000	SOPI-204337-03
Steel deck	Steel deck
Sopravap'r	Sopravap'r
Sopra-Iso	Sopra-Iso
Elastophene 180 PS DG	Elastophene 180 PS DG
M.F. (457 mm [18 in] o.c.)	M.F. (610 mm [24 in] o.c.)
Sopralene Flam 250 GR	Sopralene Flam 250 GR
50 (33.3) psf	40 (26.7) psf
2.4 (1.6) kPa	1.9 (1.3) kPa

XPRESS ISO

SOPI-020-059-011	
Steel deck	Steel deck
Sopravap'r	Sopravap'r
Xpress ISO	Xpress ISO
M.F. (457 mm [18 in] o.c., XP04)	M.F. (610 mm [24 in] o.c., XP04)
Sopralene Flam 250 GR	Sopralene Flam 250 GR
75 (50) psf	56 (37.3) psf
3.6 (2.4) kPa	2.7 (1.8) kPa



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ROOF_ASSEMBLIES_IN_ACCORDANCE_WITH_CSA_A123_21.indd



WATERPROOFING

METHOD 1

MARS -
Mechanically fastened
roofing systems

ROOF ASSEMBLIES

CSA A123.21

ROOF ASSEMBLIES 180208SCANE

Supersedes : 170322SCANE

SOPRASMART 2 in 1

* Values in parenthesis include safety factor.
Safety factor: As required by in the CSA A 123.21 standard, the published Dynamic Uplift Resistance (DUR) are reduces by a safety factor of 1.5 (SF of 1.5).

PUB-DRC 304890			PUB-DRC 304890			SOP1-DRU-00223880-05-5100
Steel deck	Steel deck	Steel deck	Steel deck	Steel deck	Steel deck	Plywood 5/8
Sopravap'r	Sopravap'r	Sopravap'r	Sopravap'r	Sopravap'r	Sopravap'r	Soprasmart ISO HD 180
Sopra-Iso	Sopra-Iso	Sopra-Iso	Sopra-Iso	Sopra-Iso	Sopra-Iso	sanded
Soprasmart ISO HD 180	Soprasmart ISO HD 180	Soprasmart ISO HD 180	Soprasmart Board 180	Soprasmart Board 180	Soprasmart Board 180	M.F. (150 mm [6 in] o.c., lap)
M.F. (305 mm [12 in] o.c., SOP23-2)	M.F. (457 mm [18 in] o.c., SOP23-2)	M.F. (610 mm [24 in] o.c., SOP23-2)	M.F. (305 mm [12 in] o.c., SOP23-1)	M.F. (457 mm [18 in] o.c., SOP23-1)	M.F. (610 mm [24 in] o.c., SOP23-1)	Elastocol Stick
* Two (2) rows of fasteners	* Two (2) rows of fasteners	* Two (2) rows of fasteners	* Two (2) rows of fasteners	* Two (2) rows of fasteners	* Two (2) rows of fasteners	Sopralene Stick HR GR
Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR	
162.5 (108.3) psf	105 (70) psf	75 (50) psf	162.5 (108.3) psf	105 (70) psf	75 (50) psf	93.75 (62.5) psf
7.8 (5.2) kPa	5.0 (3.4) kPa	3.6 (2.4) kPa	7.8 (5.2) kPa	5.0 (3.4) kPa	3.6 (2.4) kPa	4.5 (3.0) kPa
SOPI-DRS-00223880-04-5100			SOPI-223880-04			
Plywood 5/8	Plywood 5/8	Plywood 5/8				
Soprasmart ISO HD 180	Soprasmart Board 180	Soprasmart Board 180				
sanded	sanded	sanded				
M.F. (305 mm [12 in] o.c., lap)	M.F. (150 mm [6 in] o.c., lap)	M.F. (305 mm [12 in] o.c., lap)				
Elastocol Stick	Elastocol Stick	Elastocol Stick				
Sopralene Stick HR GR	Sopralene Stick HR GR	Sopralene Stick HR GR				
56 (37.5) psf	93.75 (62.5) psf	56 (37.5) psf				
2.7 (1.8) kPa	4.5 (3.0) kPa	2.7 (1.8) kPa				



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WATERPROOFING

METHOD 2

AARS - Adhesive applied roofing systems

ROOF ASSEMBLIES

CSA A123.21

ROOF ASSEMBLIES 180208SCANE

Supersedes : 170322SCANE

SOPRAROCK

* Values in parenthesis include safety factor.
Safety factor: As required by in the CSA A 123.21 standard, the published Dynamic Uplift Resistance (DUR) are reduces by a safety factor of 1.5 (SF of 1.5).

SOPI-204337-07		SOPI-204337-12		SOPI-204337-27	
Steel deck	Steel deck	Steel deck	Steel deck	Steel deck	Steel deck
Sopravap'r	Sopravap'r	Sopravap'r	Sopravap'r	Sopravap'r	Duotack (305 mm [12 in.] o.c.) +
Duotack (150 mm [6 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +	Duotack (150 mm [6 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +	Securock
Sopra-Iso	Sopra-Iso	Sopra-Iso	Soprarock DD Plus	Soprarock DD Plus	Elastophene Sanded, mopped
Duotack (100 mm [4 in.] o.c.) +	Duotack (150 mm [6 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +	Duotack (150 mm [6 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +	Sopra-Iso, mopped
Soprarock DD Plus	Soprarock DD Plus	Soprarock DD Plus	Soprarock DD Plus	Soprarock DD Plus	Soprarock DD Plus, mopped
Sopralene Flam 180	Sopralene Flam 180	Sopralene Flam 180	Sopralene Flam 180	Sopralene Flam 180	Elastophene 180 PS, mopped
Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR
144 (96) psf	125 (83.3) psf	75 (50) psf	125 (83.3) psf	60 (40) psf	93.75 (62.5) psf
6.9 (4.6) kPa	6.0 (4.0) kPa	3.6 (2.4) kPa	6.0 (4.0) kPa	2.9 (1.9) kPa	4.5 (3.0) kPa

COLVENT

SOP-22429-059-013	
Steel deck	Steel deck
Sopravap'r	Sopravap'r
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-Iso	Sopra-Iso
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-Iso Plus	Sopra-board
Colvent 830	Elastocol Stick
Colvent Traffic Cap 860 GR	Colvent 830
	Colvent Traffic Cap 860 GR
93.75 (62.5) psf	93.75 (62.5) psf
4.5 (3.0) kPa	4.5 (3.0) kPa

SOPRAFLASH

SOPI-200939-07	
Steel deck	Steel deck
Sopravap'r	Sopravap'r
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-Iso	Sopra-Iso
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-Iso Plus	Sopra-board
Sopraflash Flam Stick	Colply Brush Grade+
Sopraply Traffic Cap 560 GR	Colply Base 410+Colply B. Gr.
	Colply Traffic Cap 460
93.75 (62.5) psf	75 (50) psf
4.5 (3.0) kPa	3.6 (2.4) kPa

COLPLY

SOPI-223880-16	
Steel deck	Steel deck
Sopravap'r	Sopravap'r
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-Iso	Sopra-Iso
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-board	Sopra-board
Sopratack+ Colply Base 410	Sopratack+ Colply Base 410
Sopratack+ Colply Traffic Cap 460	Sopratack+ Colply Traffic Cap 460
75 (50) psf	75 (50) psf
3.6 (2.4) kPa	3.6 (2.4) kPa

SOPRATAACK

SOPI-204337-02	
Steel deck	Steel deck
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Densdeck prime	Densdeck prime
Hot bit.+ Elastophene Sanded	Hot bit.+ Elastophene Sanded
Hot bitumen+ Colgrip B	Hot bitumen+ Colgrip B
Hot bitumen+ Sopra-board	Hot bitumen+ Sopra-board
Hot bitumen+ Colply Base 410	Hot bitumen+ Colply Base 410
Soprasphalte M +	Soprasphalte M +
Colply Traffic Cap 460	Colply Traffic Cap 460
93.75 (62.5) psf	93.75 (62.5) psf
4.5 (3.0) kPa	4.5 (3.0) kPa

SOPRASPHALTE M

SOPRABASE HD

SOPI-223880-13	SOPI-204131-01
Steel deck	Steel deck
Sopravap'r	Sopravap'r
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-Iso	Sopra-Iso
Duotack (305 mm [12 in.] o.c.) +	Hot bitumen
Sopra-Iso	Soprabase HD
Soprabase HD	Sopralene Flam 250 GR
Sopralene Flam 250 GR	
75 (50) psf	93.75 (62.5) psf
3.6 (2.4) kPa	4.5 (3.0) kPa

XPRESS BOARD HD

SOPI-210663-07	SOPI-200939-02
Steel deck	Steel deck
Duotack (150 mm [12 in.] o.c.) +	Sopravap'R
Xpress Vap'R Board	Duotack (305 mm [12 in.] o.c.) +
Duotack (150 mm [12 in.] o.c.) +	Sopra-Iso
Sopra-Iso	Duotack (305 mm [12 in.] o.c.) +
Duotack (150 mm [12 in.] o.c.) +	Xpress Board HD
Xpress Board HD	Sopralene Flam 250 GR
Sopralene Flam 250 GR	
105 (70) psf	75 (50) psf
5.0 (3.4) kPa	3.6 (2.4) kPa

Thermal Barrier & SOPRABOARD

SOPI-020-059-018	SOPI-223880-18	SOPI-216809-14
Steel deck	Steel deck	Steel deck
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Densdeck prime	Densdeck prime	Permabase Dek
Elastocol 500	Elastocol Stick	Elastocol Stick
Elastophene SP 2.2 mm	Sopravap'R	Sopravap'R
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-Iso	Sopra-Iso	Sopra-Iso
Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-board	Sopra-board	Permabase Dek
Sopralene Flam 180	Sopralene Flam 180	Sopralene Flam 180
Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR
135 (90) psf	112.5 (75) psf	135 (90) psf
6.5 (4.3) kPa	5.4 (3.6) kPa	6.5 (4.3) kPa

SOPRABOARD

SOPI-204337-19	
Steel deck	Steel deck
Sopravap'r	Sopravap'r
Duotack (150 mm [6 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-Iso	Sopra-Iso
Duotack (150 mm [6 in.] o.c.) +	Duotack (305 mm [12 in.] o.c.) +
Sopra-board	Sopra-board
Sopralene Flam 180	Sopralene Flam 180
Sopralene Flam 250 GR	Sopralene Flam 250 GR
150 (100) psf	108 (72) psf
7.2 (4.8) kPa	5.2 (3.5) kPa

Note: DUOTACK 365 can be used in lieu of DUOTACK.



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NOTE: SOPREMA INC. may modify the composition and/or utilization of its products without prior notice.



WATERPROOFING

METHOD 2

AARS -
Adhesive applied
roofing systems

ROOF ASSEMBLIES

CSA A123.21

ROOF ASSEMBLIES 180208SCANE

Supersedes : 170322SCANE

SOPRASMART 2 in 1

* Values in parenthesis include safety factor.
Safety factor: As required by in the CSA A 123.21 standard, the published Dynamic Uplift Resistance (DUR) are reduces by a safety factor of 1.5 (SF of 1.5).

SOPI-204337-23		SOPI-210663-05		
Steel deck	Steel deck	Steel deck	Steel deck	Steel deck
Sopravap'r	Sopravap'r	Sopravap'r	Sopravap'r	Sopravap'r
Duotack (150 mm [6 in] o.c.) +	Duotack (305 mm [12 in] o.c.) +	Duotack (150 mm [6 in] o.c.) +	Duotack (150 mm [6 in] o.c.) +	Duotack (305 mm [12 in] o.c.) +
Sopra-Iso	Sopra-Iso	Sopra-Iso	Sopra-Iso	Sopra-Iso
Duotack (150 mm [6 in] o.c.) +	Duotack (305 mm [12 in] o.c.) +	Duotack (100 mm [4 in] o.c.)	Duotack (150 mm [6 in] o.c.) +	Duotack (305 mm [12 in] o.c.) +
Soprasmart ISO HD 180	Soprasmart ISO HD 180	Soprasmart Board 180	Soprasmart Board 180	Soprasmart Board 180
Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR
120 (80) psf	112.5 (75) psf	135 (90) psf	131 (87) psf	112.5 (75) psf
5.8 (3.9) kPa	5.4 (3.6) kPa	6.5 (4.3) kPa	6.7 (4.2) kPa	5.4 (3.6) kPa

SOPRASMART 3 in 1

XPRESS ISO

SOPI-231265-13	SOPI-231265-12	SOPI-020-059-015
Steel deck	Steel deck	Steel deck
Sopravap'r	Sopravap'r	Sopravap'r
Duotack (305 mm [12 in] o.c.) +	Duotack (305 mm [12 in] o.c.) +	Duotack (305 mm [12 in] o.c.) +
Soprasmart Board 180 ISO	Soprasmart ISO HD 180 ISO	Xpress Iso
Sopralene Flam 250 GR	Sopralene Flam 250 GR	Sopralene Flam 250 GR
90 (60) psf	75 (50) psf	75 (50) psf
4.3 (2.9) kPa	3.6 (2.4) kPa	3.6 (2.4) kPa

SOPRALENE STICK HR GR

SOPI-210663-05
Steel deck
Sopravap'r
Duotack (150 mm [6 in] o.c.) +
Sopra-Iso
Duotack (150 mm [6 in] o.c.) +
Soprasmart Board 180 Sanded
Elastocol Stick
Sopralene Stick HR GR
131.25 (87.5) psf
6.3 (4.2) kPa

Note: DUOTACK 365 can be used in lieu of DUOTACK.



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WATERPROOFING

METHOD 3

PARS -
Partially attached
roofing systems

ROOF ASSEMBLIES

CSA A123.21

ROOF ASSEMBLIES 180208SCANE

Supersedes : 170322SCANE

Thermal barrier

* Values in parenthesis include safety factor.
Safety factor: As required by in the CSA A 123.21 standard, the published Dynamic Uplift Resistance (DUR) are reduces by a safety factor of 1.5 (SF of 1.5).

SOPI-210663-06	SOPI-210663-10	SOPI-210663-10	SOPI-239572-04	SOPI-239572-03	SOPI-223880-14
Steel deck Securock 1/2 in + M.F. (10 fst./board [4x8 ft]) Elastocol 500 + Sopralene 180 SP 3.5 Duotack (305 mm [12 in.] o.c.) + EPS Type II Duotack (305 mm [12 in.] o.c.) + Sopra-Iso Duotack (305 mm [12 in.] o.c.) + Soprarock DD Plus Sopralene Flam 180 Sopralene Flam 250 GR	Steel deck Xpress Vap'R Board + M.F. @ 305 mm (12 in), 2 rows (lap and center of the board) Duotack (150 mm [6 in.] o.c.) Sopra-Iso Duotack (150 mm [6 in.] o.c.) Sopraboard Duotack (150 mm [6 in.] o.c.) Sopralene Flam 180 Sopralene Flam 250 GR	Steel deck Xpress Vap'R Board + M.F. @ 305 mm (12 in) Sopra-Iso Duotack (305 mm [12 in.] o.c.) Sopraboard Duotack (305 mm [12 in.] o.c.) Sopralene Flam 180 Sopralene Flam 250 GR	Steel deck Densdeck prime 1/2 in + M.F. (24 fst./board [4x8 ft]) Elastocol 500 Elastophene SP 2.2 Duotack (152 mm [6 in.] o.c.) Sopra-Iso Duotack (152 mm [6 in.] o.c.) Sopra-Iso Duotack (152 mm [6 in.] o.c.) Densdeck Prime Elastocol 500 Sopralene Flam 180 Sopralene Flam 250 GR	Steel deck Densdeck prime 1/2 in + M.F. (16 fst./board [4x8 ft]) Elastocol 500 Elastophene SP 2.2 Duotack (152 mm [12 in.] o.c.) Sopra-Iso Duotack (152 mm [12 in.] o.c.) Sopra-Iso Duotack (152 mm [12 in.] o.c.) Densdeck Prime Elastocol 500 Sopralene Flam 180 Sopralene Flam 250 GR	Steel deck Densdeck prime 1/2 in + M.F. (8 fst./board [4x8 ft]) Elastocol Stick Sopravap'r Duotack (305 mm [12 in.] o.c.) Sopra-Iso Duotack (305 mm [12 in.] o.c.) Soprasmart Board 180 Sopralene Flam 250 GR
90 (60) psf 4.3 (2.9) kPa	90 (60) psf 4.3 (2.9) kPa	60 (40) psf 2.9 (1.9) kPa	180 (120) psf 8.6 (5.7) kPa	125 (83) psf 6.0 (4.0) kPa	72 (48) psf 3.5 (2.3) kPa
SOPI-231265-08	SOPI-231265-02	SOPI-223880-14	SOPI-231265-16	SOPI-231265-14	
Steel deck Densdeck prime 1/2 in + M.F. (32 fst./board [4x8 ft]) Elastocol Stick Sopravap'r Duotack (100 mm [4 in.] o.c.) Sopra-Iso Duotack (100 mm [4 in.] o.c.) Soprasmart Board 180 Sopralene Flam 250 GR	Steel deck Densdeck prime 1/2 in + M.F. (16 fst./board [4x8 ft]) Elastocol 500 Elastophene SP 2.2 Duotack (305 mm [12 in.] o.c.) Sopra-Iso Duotack (305 mm [12 in.] o.c.) Soprasmart Board 180 Sopralene Flam 250 GR	Steel deck Densdeck prime 1/2 in + M.F. (16 fst./board [4x8 ft]) Elastocol 500 Elastophene SP 2.2 Duotack (305 mm [12 in.] o.c.) Sopra-Iso Duotack (305 mm [12 in.] o.c.) Sopra-Iso Plus Colvent Base 830 Colvent Traffic Cap 860	Steel deck Densdeck prime 1/2 in + M.F. (12 fst./board [4x8 ft]) Elastocol 500 Elastophene SP 2.2 Duotack (305 mm [12 in.] o.c.) Sopra-Iso Duotack (305 mm [12 in.] o.c.) Sopra-Iso Plus Colvent Base 830 Colvent Traffic Cap 860	Steel deck Densdeck prime 1/2 in + M.F. (16 fst./board [4x8 ft]) Hot bitumen 2 plies - #15 lbs perforated felt Hot bitumen Sopra-Iso Hot bitumen Soprafibre IC 4 plies - SOPRA IV adhered with hot bitumen Flood coat and gravel	
175.5 (117) psf 8.4 (5.6) kPa	112.5 (75) psf 5.4 (3.6) kPa	125 (83) psf 6.0 (4.0) kPa	100 (67) psf 4.8 (3.2) kPa	150 (100) psf 7.2 (4.8) kPa	

Note: DUOTACK 365 can be used in lieu of DUOTACK.



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