

The following requirements represent the standard fastener and plate attachment criteria to qualify for a JM Peak Advantage® Guarantee. This information does not represent compliance with applicable building codes, FM requirements, nor FBC requirements. For compliance with specific wind uplift criteria and systems requiring additional riders, please contact JM Technical Services at 1-800-922-5922 Option 3.

These attachment rates apply to the following deck types: min. 22 ga Steel, Lightweight Insulated Concrete (LWIC), Cementitious Wood Fiber, Gypsum, min. 5/8" Plywood, and Wood Plank. Contact JM Technical Services for fastening rates into decks not listed, such as Structural Concrete, Metal Roof Panels, 1/2" Plywood, and OSB decks.

For roof system applications requiring Preliminary Attachment of board products below the base sheet, reference the *JM Minimum Board Attachment Patterns* document for specific Preliminary Attachment rates dependent on board product, size, and thickness.

ATTACHMENT RATES

Application Method	Pattern	Fasteners Per Square						Fastener Types						Recommended Prescriptive Enhancements		
		36" Sheet Width (A)			39.375" Sheet Width (A)			APB Plate (4" Lap)	Cap Nail (2" Lap)	High Load (4" Lap)	LWC (3" Lap)	Tape & Staple (2" Lap)	UltraLok (3" Lap)			
		Lap Width (B)			Lap Width (B)											
		2"	3"	4"	3"	4"										
In-Seam (Standard for Polyester Reinforced SBS Sheets such as DynaFast.)	18" oc					23	X		X					18" oc w/ 1-Row 18" oc	18" oc w/ 2-Rows 18" oc	
	18" oc w/ 1-Row 18" oc					46	X		X							
	18" oc w/ 2-Rows 18" oc					68	X		X							
	12" oc					34	X		X					12" oc w/ 1-Row 12" oc	12" oc w/ 2-Rows 12" oc	
	12" oc w/ 1-Row 12" oc					68	X		X							
	12" oc w/ 2-Rows 12" oc					102	X		X							
	9" oc					46	X		X					9" oc w/ 1-Row 9" oc	9" oc w/ 2-Rows 9" oc	
	9" oc w/ 1-Row 9" oc					91	X		X							
	9" oc w/ 2-Rows 9" oc					136	X		X							
	8" oc					51	X		X					8" oc w/ 1-Row 8" oc	8" oc w/ 2-Rows 8" oc	
	8" oc w/ 1-Row 8" oc					106	X		X							
	8" oc w/ 2-Rows 8" oc					159	X		X							
	6" oc					68	X		X					6" oc w/ 1-Row 6" oc	6" oc w/ 2-Rows 6" oc	
	6" oc w/ 1-Row 6" oc					136	X		X							
	6" oc w/ 2-Rows 6" oc					204	X		X							
Standard (Typical for Glass Reinforced BUR Sheets such as Ventsulation and PermaPly 28.)	12,18,18	83	85	88	77	80	X	X	X	X		X		9,9,9	8,8,8,8	
	12,12,12	106	110	113	99	102	X	X	X	X		X		7,7,7	6,6,6,6,6	
	9,18,18	95	97	100	88	91	X	X	X	X		X		6,9,9	7,7,7,7	
	9,12,12	118	122	125	110	114	X	X	X	X		X		5,7,7	5,5,5,5,5,5,5	
	9,9,9	142	146	150	132	136	X	X	X	X		X		4,5,5,5,5,5	4,5,4,5,4,5,4,5	
	9,9,9,9	189	194	200	176	181	X	X	X	X		X		6,5,6,5,6,5,6,5,6,5	5,5,5,5,5,5	
	8,8,8,8	212	219	225	198	204	X	X	X	X		X		5,7,5,7,5,5,7,5,5,7,5	4,5,4,5,4,5,4,5,4,5,4,5	
	7,5,7,5,7,5	170	175	180	159	163	X	X	X	X		X		6,6,6,6	4,7,5,4,7,5,4,7,5,4,7,5	
	7,9,9	155	160	165	145	149	X	X	X	X		X		7,7,7,7	5,5,5,5,5,5,5,5,5	
	7,7,7	182	188	193	170	175	X	X	X	X		X		5,5,5,5,5,5,5,5	4,5,4,5,4,5,4,5,4,5	
	7,7,7,7	243	250	258	227	233	X	X	X	X		X				
	6,5,6,5,6,5,6,5,6,5	326	336	347	305	314	X	X	X	X		X				
	6,12,12	142	146	150	132	136	X	X	X	X		X		5,7,7	5,5,5,5,5,5,5,5	
	6,9,9	165	170	175	154	159	X	X	X	X		X				
	6,6,6,6	283	291	300	264	272	X	X	X	X		X		4,4,4,4,4,4,4,4,4,4	3,4,3,4,3,4,3,4,3,4,3,4	
	6,6,6,6,6	353	364	375	330	340	X	X	X	X		X				
	5,7,5,7,5,5,7,5,5,7,5	369	380	392	345	354	X	X	X	X		X				
	5,5,5,5,5,5,5,5	309	318	328	288	297	X	X	X	X		X				
	5,5,5,5,5,5,5,5,5	386	397	410	360	371	X	X	X	X		X				
	5,7,7	206	212	219	193	198	X	X	X	X		X				
	5,5,5,5,5,5	509	524	540	476	489	X	X	X	X		X				
	4,7,5,4,7,5,4,7,5,4,7,5	446	460	474	417	429	X	X	X	X		X				
	4,5,5,5,5,5	249	256	264	232	239	X	X	X	X		X				
	4,5,4,5,4,5,4,5	377	388	400	352	362	X	X	X	X		X				
	4,5,4,5,4,5,4,5,4,5	471	485	500	440	453	X	X	X	X		X				
	4,5,4,5,4,5,4,5,4,5,4,5	565	582	600	528	543	X	X	X	X		X				
	4,4,4,4,4,4,4,4,4,4	482	496	512	450	463	X	X	X	X		X				
	3,4,3,4,3,4,3,4,3,4,3,4	748	771	795	699	719	X	X	X	X		X				
	Tape & Staple	9,9,9	142										X		9,9,9,9,9,9,9	Criss-Cross
		9,9,9,9	189										X		9,9,9,9,9,9,9	Criss-Cross
9,9,9,9,9,9,9		330										X				
9,9,9,9,9,9,9,9		377										X				

PLATE OPTIONS

Type	Lap Width (B)			Lap Width (B)	
	2"	3"	4"	3"	4"
APB Plate				X	X
Cap Nail	X				
High Load Plate					X
Lightweight Concrete (LWC) Fasteners		X	X		X
Tape & Staple	X				
UltraLok Locking Impact Fastener & Plate		X	X		X

Diameter
2"
1-5/8"
2-3/8"
2.7"
3/4"
2.7"

Typical Deck Application(s)
Steel, Wood
Wood
Steel, Wood
LWIC
Wood
LWIC, Cementitious Wood Fiber, Gypsum

STANDARD ROOF ZONE ENHANCEMENT PATTERNS

Application Method	Pattern	JM Detail			
		American Society of Civil Engineers (ASCE 7 Standard)			
		7-05 & 7-10		7-16 & 7-22	
		< 60' Tall	≥ 60' Tall	< 60' Tall	≥ 60' Tall
In-Seam	18" O.C.	BM18-01	BM18-02	BM18-03	BM18-04
	12" O.C.	BM12-01	BM12-02	BM12-03	BM12-04
	9" O.C.	BM9-01	BM9-02	BM9-03	BM9-04
	8" O.C.	BM8-01	BM8-02	BM8-03	BM8-04
	6" O.C.	BM6-01	BM6-02	BM6-03	BM6-04
Standard	12,18,18	BM121818-01	BM121818-02	BM121818-03	BM121818-04
	12,12,12	BM121212-01	BM121212-02	BM121212-03	BM121212-04
	9,18,18	BM91818-01	BM91818-02	BM91818-03	BM91818-04
	9,12,12	BM91212-01	BM91212-02	BM91212-03	BM91212-04
	9,9,9	BM999-01	BM999-02	BM999-03	BM999-04
	9,9,9,9	BM9999-01	BM9999-02	BM9999-03	BM9999-04
	8,8,8,8	BM8888-01	BM8888-02	BM8888-03	BM8888-04
	7.5,7.5,7.5	BM7.57.57.5-01	BM7.57.57.5-02	BM7.57.57.5-03	BM7.57.57.5-04
	7,9,9	BM799-01	BM799-02	BM799-03	BM799-04
	7,7,7	BM777-01	BM777-02	BM777-03	BM777-04
	6,12,12	BM61212-01	BM61212-02	BM61212-03	BM61212-04
	6,6,6,6	BM6666-01	BM6666-02	BM6666-03	BM6666-04
Tape & Staple	9,9,9	BM999TS-01	BM999TS-02	BM999TS-03	BM999TS-04
	9,9,9,9	BM9999TS-01	BM9999TS-02	BM9999TS-03	BM9999TS-04

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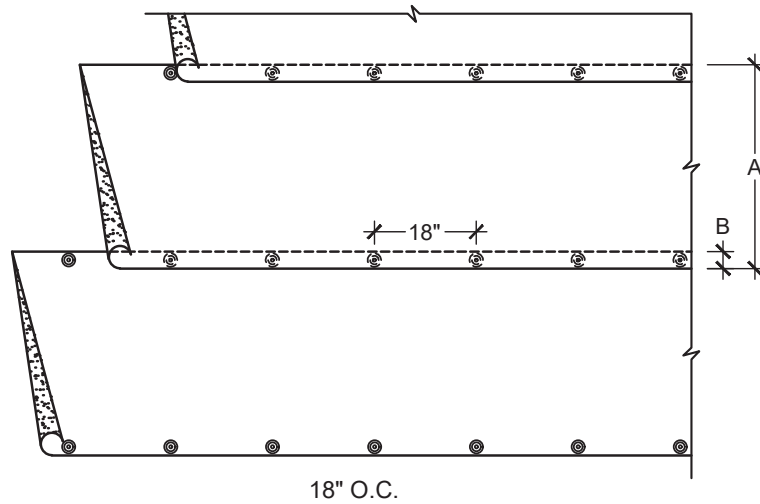
A = Sheet Width

B = Lap Width (Overlap)

C = Additional Row Spacing

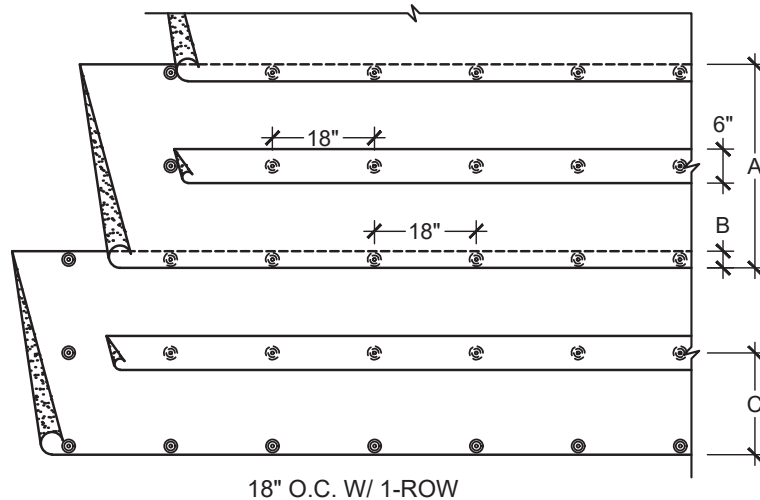
18" O.C.

A	B	C	FASTENERS PER SQ
36"	2"	N/A	24
	3"	N/A	25
	4"	N/A	25
39.375"	3"	N/A	22
	4"	N/A	23



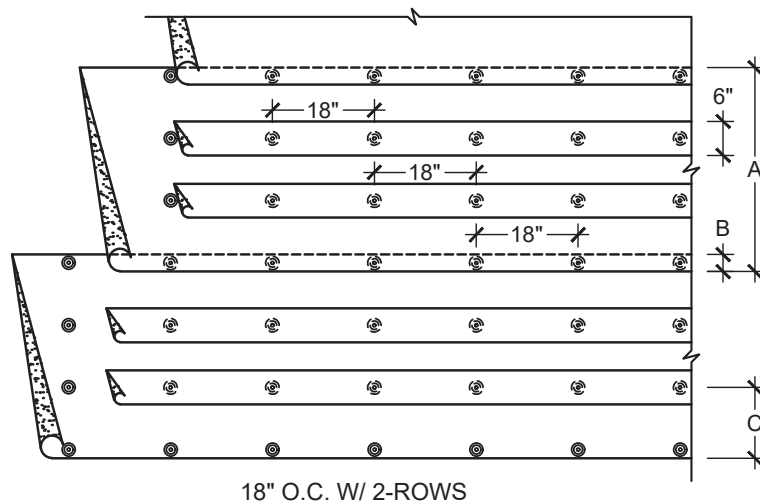
18" O.C. W/ 1-ROW

A	B	C	FASTENERS PER SQ
36"	2"	17"	48
	3"	16.5"	49
	4"	16"	50
39.375"	3"	18.19"	44
	4"	17.69"	46



18" O.C. W/ 2-ROWS

A	B	C	FASTENERS PER SQ
36"	2"	11.34"	71
	3"	11"	73
	4"	10.67"	75
39.375"	3"	12.13"	66
	4"	11.8"	68



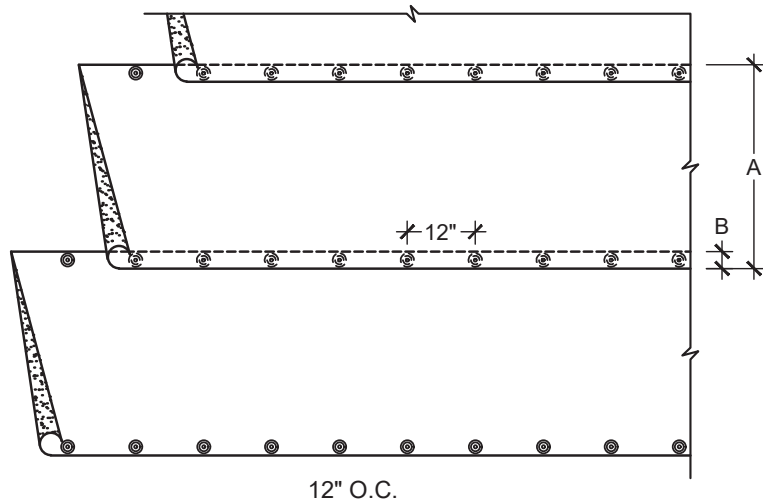
A = Sheet Width

B = Lap Width (Overlap)

C = Additional Row Spacing

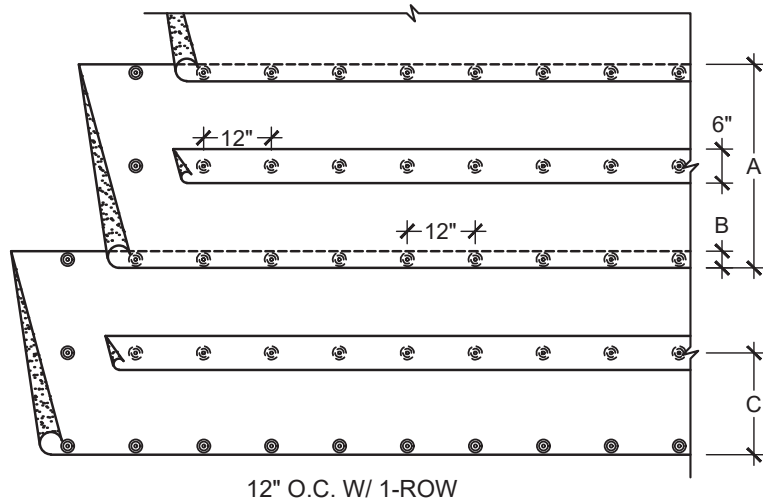
12" O.C.

A	B	C	FASTENERS PER SQ
36"	2"	N/A	36
	3"	N/A	37
	4"	N/A	38
39.375"	3"	N/A	33
	4"	N/A	34



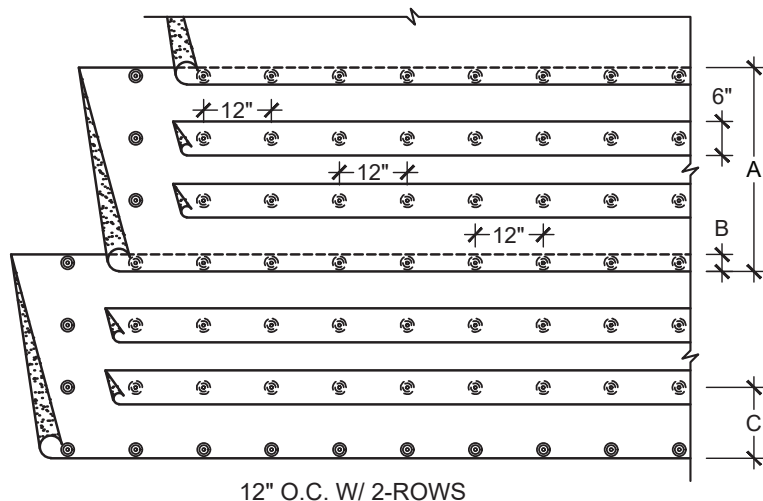
12" O.C. W/ 1-ROW

A	B	C	FASTENERS PER SQ
36"	2"	17"	71
	3"	16.5"	73
	4"	16"	75
39.375"	3"	18.19"	66
	4"	17.69"	68



12" O.C. W/ 2-ROWS

A	B	C	FATENERS PER SQ
36"	2"	11.34"	106
	3"	11"	110
	4"	10.67"	113
39.375"	3"	12.13"	99
	4"	11.8"	102



12" O.C. W/ 2-ROWS

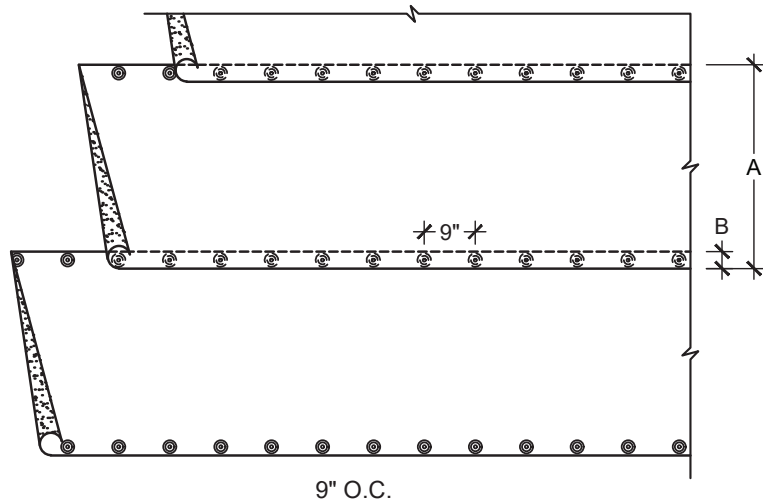
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

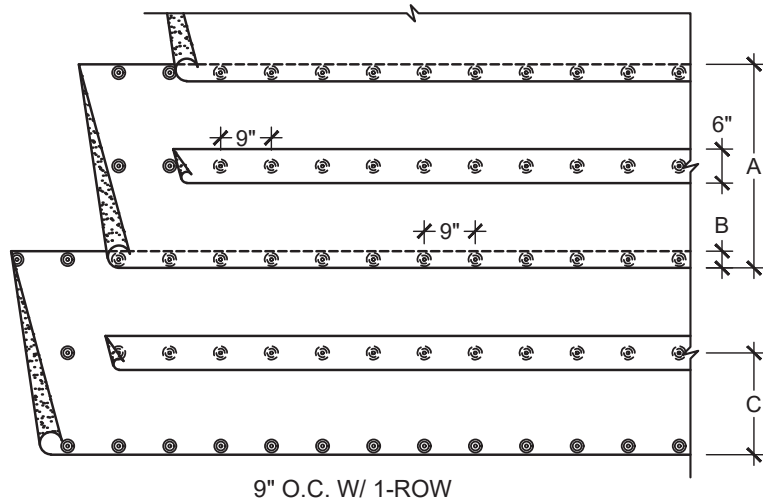
9" O.C.

A	B	C	FASTENERS PER SQ
36"	2"	N/A	48
	3"	N/A	49
	4"	N/A	50
39.375"	3"	N/A	44
	4"	N/A	46



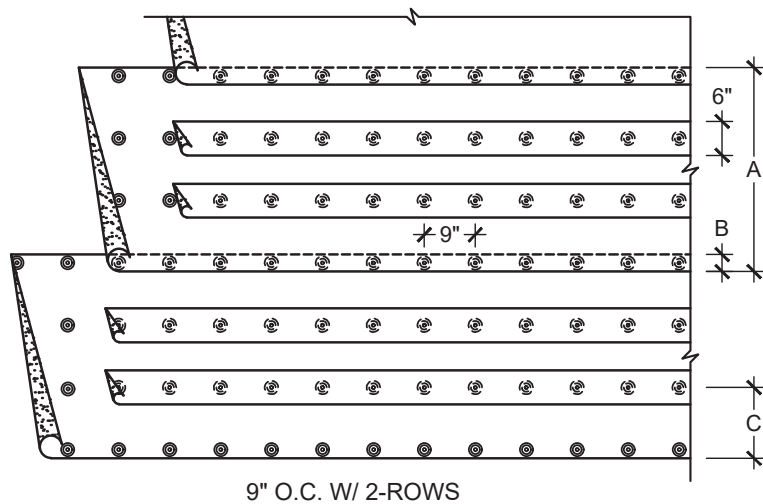
9" O.C. W/ 1-ROW

A	B	C	FASTENERS PER SQ
36"	2"	17"	95
	3"	16.5"	97
	4"	16"	100
39.375"	3"	18.19"	88
	4"	17.69"	91



9" O.C. W/ 2-ROWS

A	B	C	FASTENERS PER SQ
36"	2"	11.34"	142
	3"	11"	146
	4"	10.67"	150
39.375"	3"	12.13"	132
	4"	11.8"	136



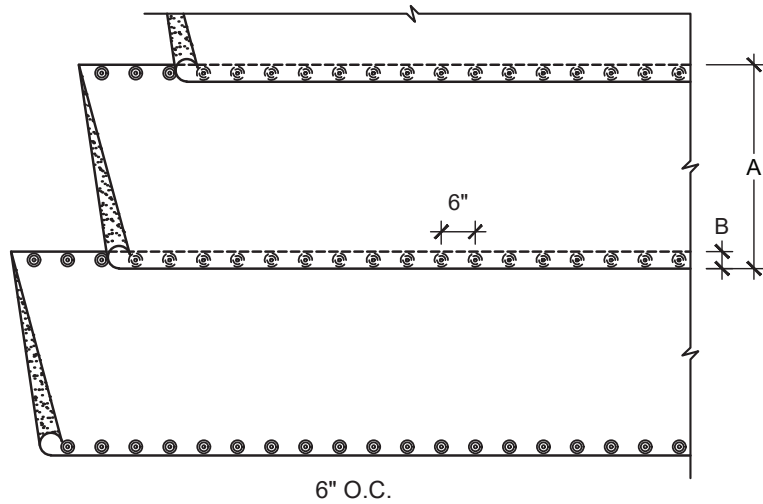
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B = Seam Width (Overlap)

C = Additional Row Spacing

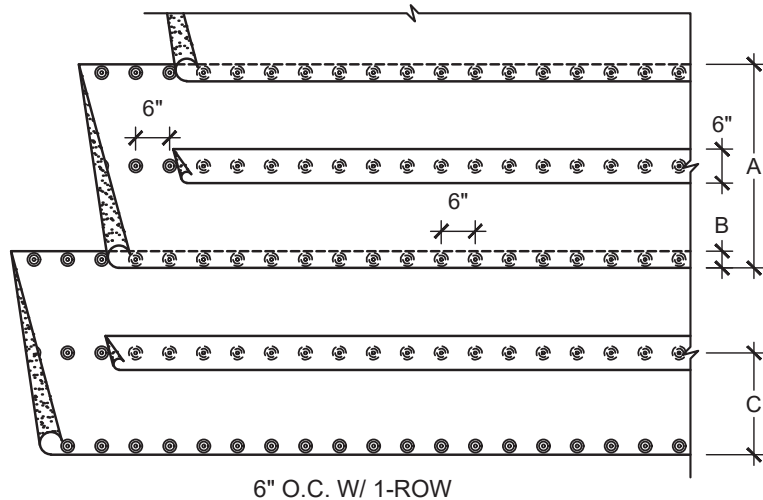
6" O.C.

A	B	C	FASTENERS PER SQ
36"	2"	N/A	71
	3"	N/A	73
	4"	N/A	75
39.375"	3"	N/A	66
	4"	N/A	68



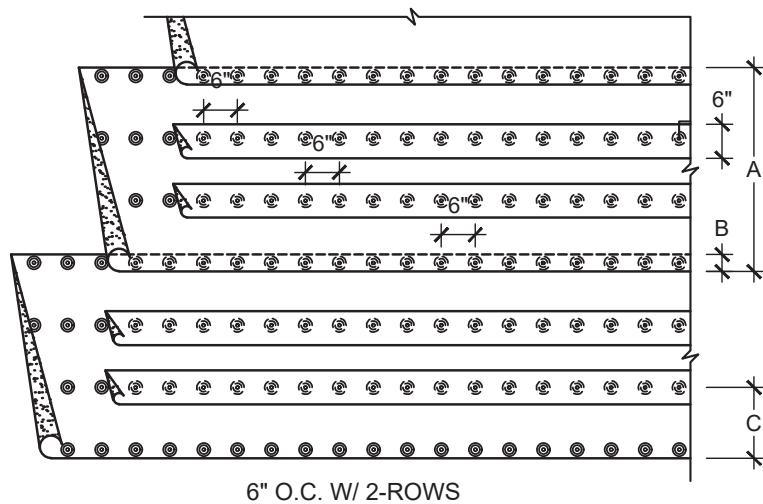
6" O.C. W/ 1-ROW

A	B	C	FASTENERS PER SQ
36"	2"	17"	142
	3"	16.5"	146
	4"	16"	150
39.375"	3"	18.19"	132
	4"	17.69"	136



6" O.C. W/ 2-ROWS

A	B	C	FATENERS PER SQ
36"	2"	11.34"	212
	3"	11"	219
	4"	10.67"	225
39.375"	3"	12.13"	198
	4"	11.8"	204



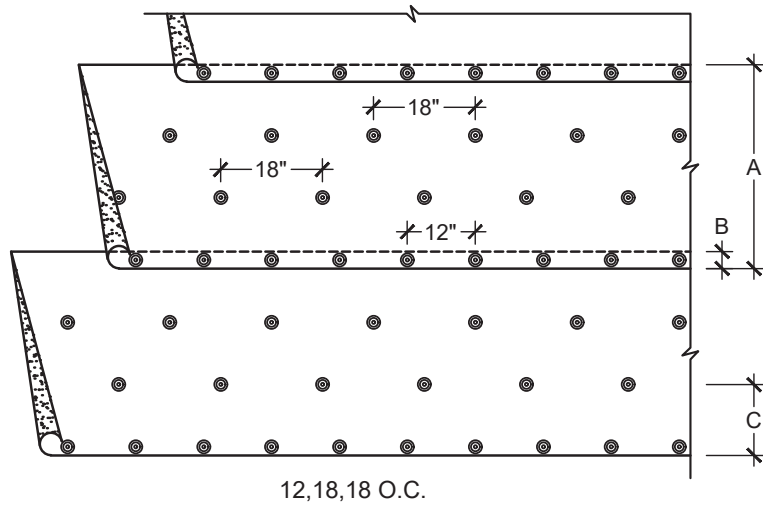
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

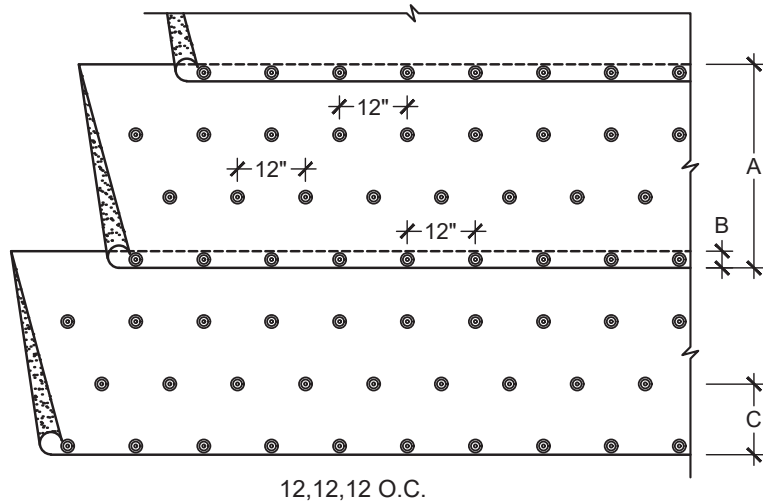
12,18,18 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	11.34"	83
	3"	11"	85
	4"	10.67"	88
39.375"	3"	12.13"	77
	4"	11.8"	80



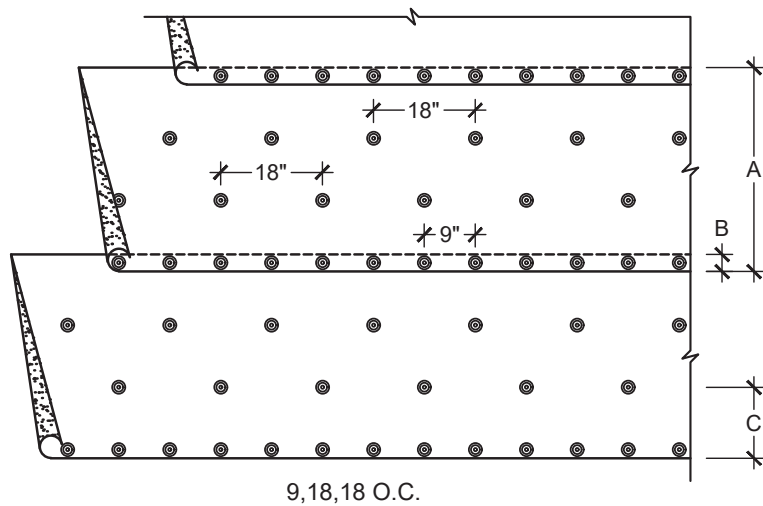
12,12,12 O.C.

A	B	C	FATENERS PER SQ
36"	2"	11.34"	106
	3"	11"	110
	4"	10.67"	113
39.375"	3"	12.13"	99
	4"	11.8"	102



9,18,18 O.C.

A	B	C	FATENERS PER SQ
36"	2"	11.34"	95
	3"	11"	97
	4"	10.67"	100
39.375"	3"	12.13"	88
	4"	11.8"	91



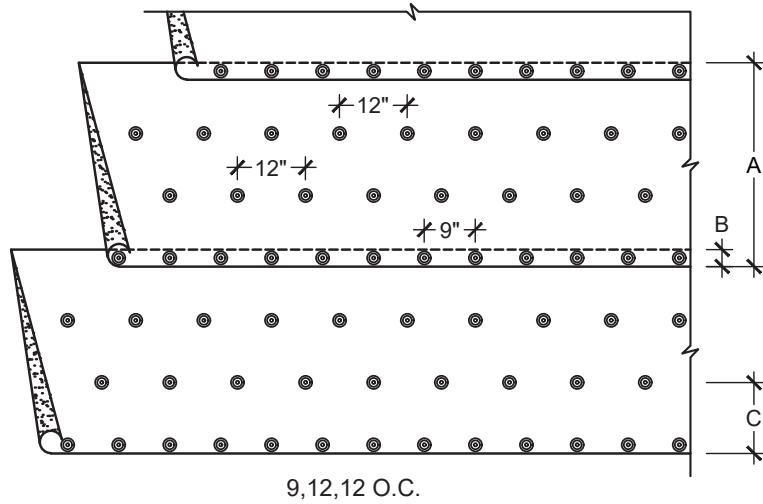
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

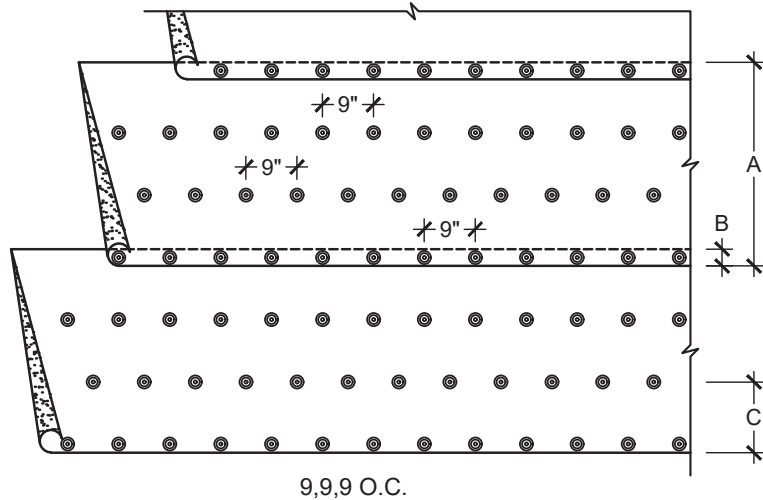
9,12,12 O.C.

A	B	C	FATENERS PER SQ
36"	2"	11.34"	118
	3"	11"	122
	4"	10.67"	125
39.375"	3"	12.13"	110
	4"	11.8"	114



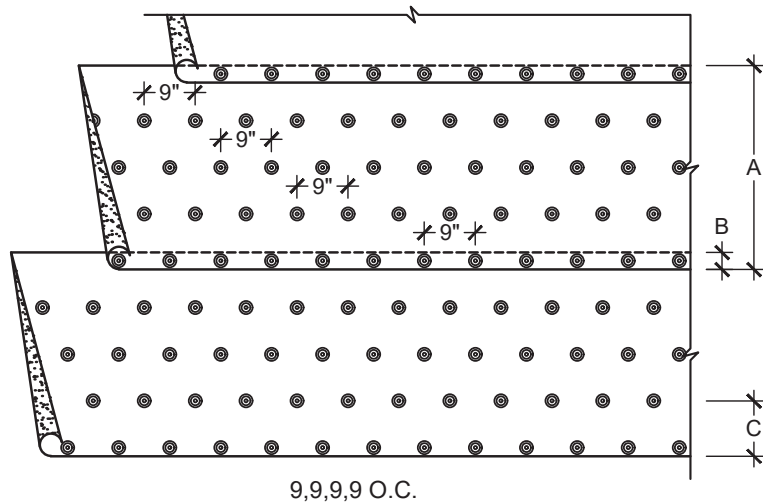
9,9,9 O.C.

A	B	C	FATENERS PER SQ
36"	2"	11.34"	142
	3"	11"	146
	4"	10.67"	150
39.375"	3"	12.13"	132
	4"	11.8"	136



9,9,9,9 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	8.5"	189
	3"	8.25"	194
	4"	8"	200
39.375"	3"	9.1"	176
	4"	8.85"	181



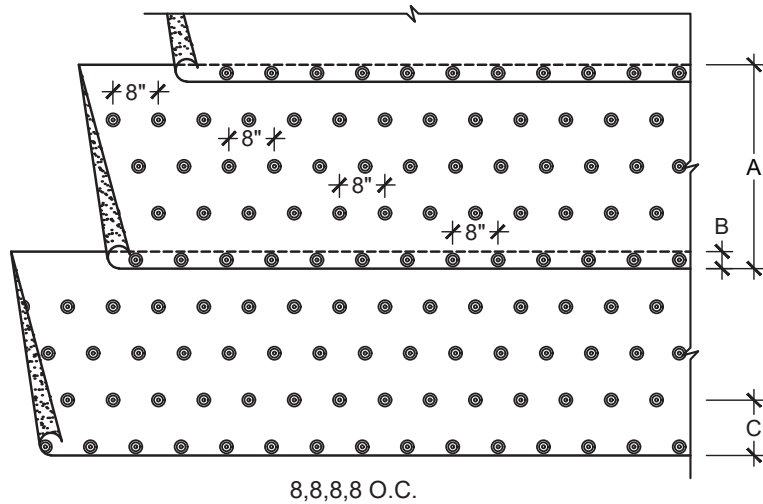
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

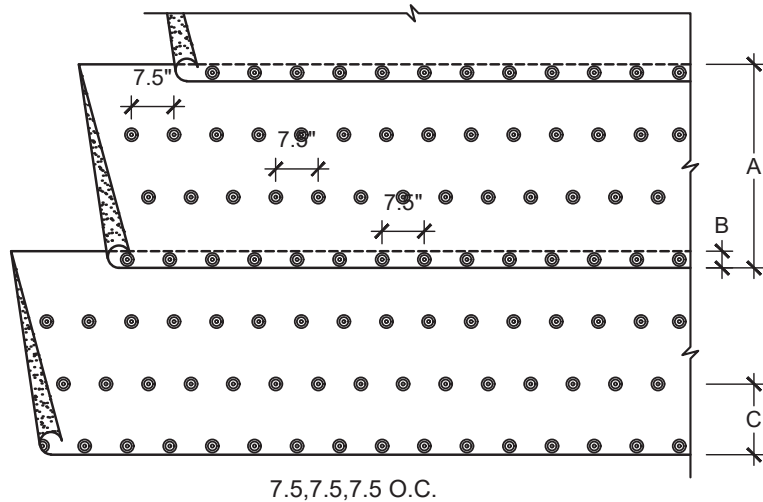
8,8,8 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	8.5"	212
	3"	8.25"	219
	4"	8"	225
39.375"	3"	9.1"	198
	4"	8.85"	204



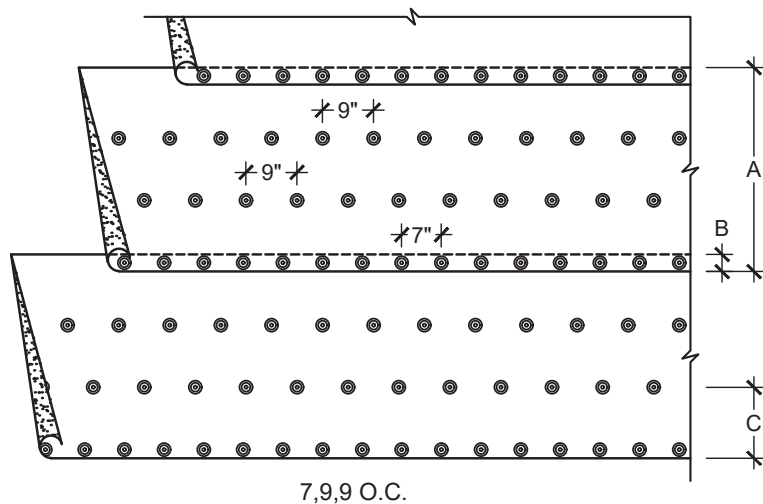
7.5,7.5,7.5 O.C.

A	B	C	FATENERS PER SQ
36"	2"	11.34"	170
	3"	11"	175
	4"	10.67"	180
39.375"	3"	12.13"	159
	4"	11.8"	163



7,9,9 O.C.

A	B	C	FATENERS PER SQ
36"	2"	11.34"	155
	3"	11"	160
	4"	10.67"	165
39.375"	3"	12.13"	145
	4"	11.8"	149



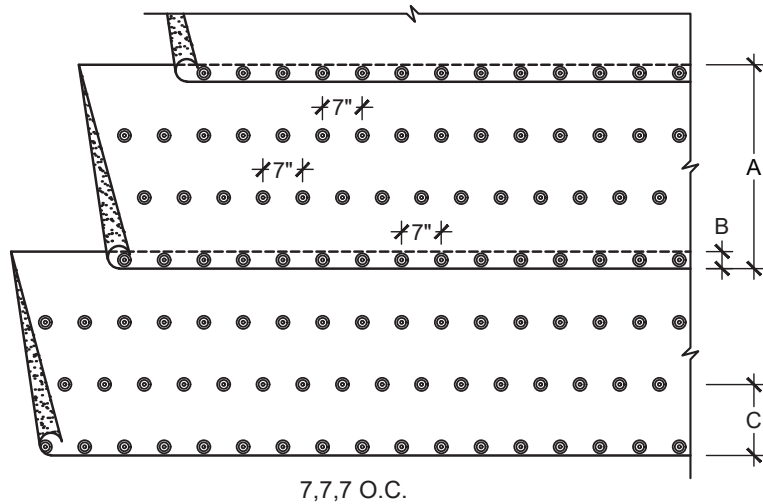
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

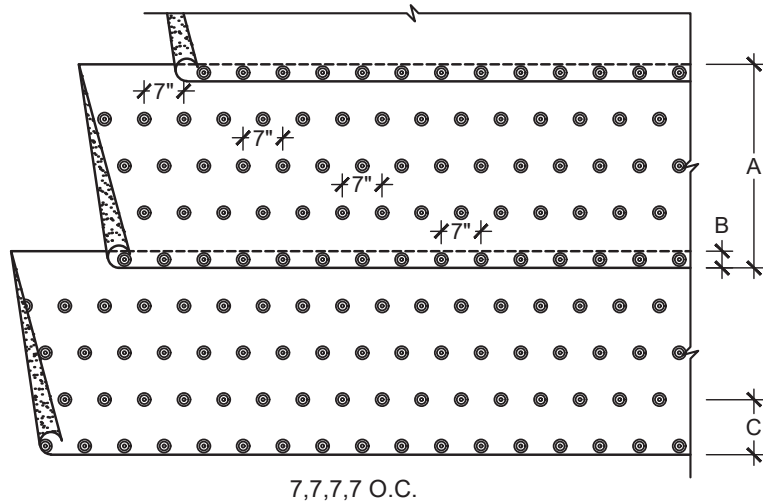
7,7,7 O.C.

A	B	C	FATENERS PER SQ
36"	2"	11.34"	182
	3"	11"	188
	4"	10.67"	193
39.375"	3"	12.13"	170
	4"	11.8"	175



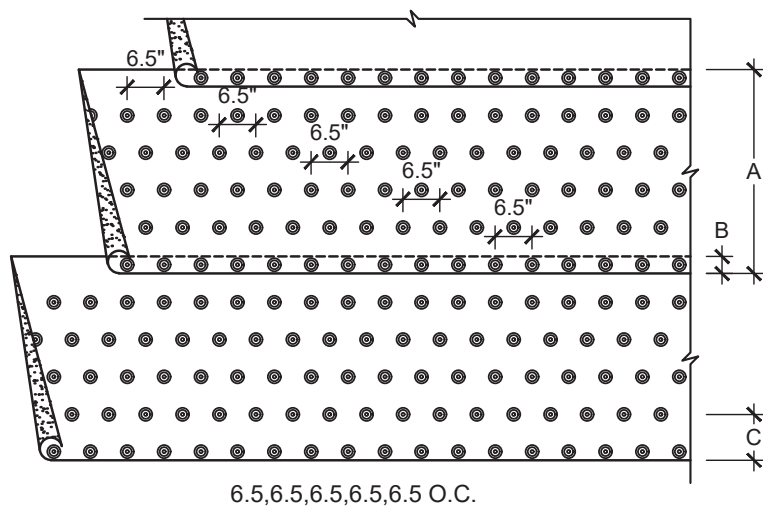
7,7,7,7 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	8.5"	243
	3"	8.25"	250
	4"	8"	258
39.375"	3"	9.1"	227
	4"	8.85"	233



6.5,6.5,6.5,6.5,6.5 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	6.8"	326
	3"	6.6"	336
	4"	6.4"	347
39.375"	3"	7.28"	305
	4"	7.08"	314



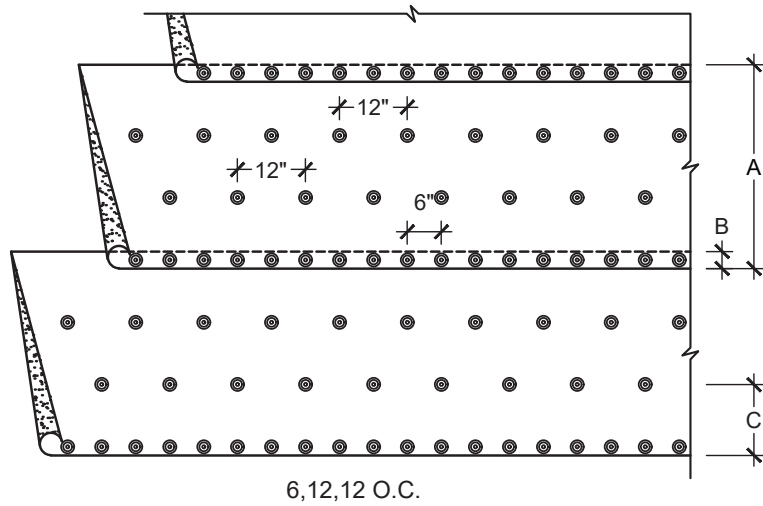
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

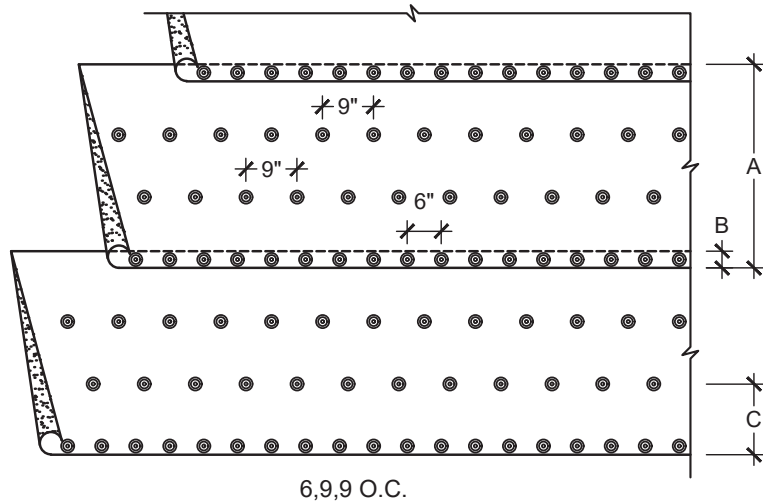
6,12,12 O.C.

A	B	C	FATENERS PER SQ
36"	2"	11.34"	142
	3"	11"	146
	4"	10.67"	150
39.375"	3"	12.13"	132
	4"	11.8"	136



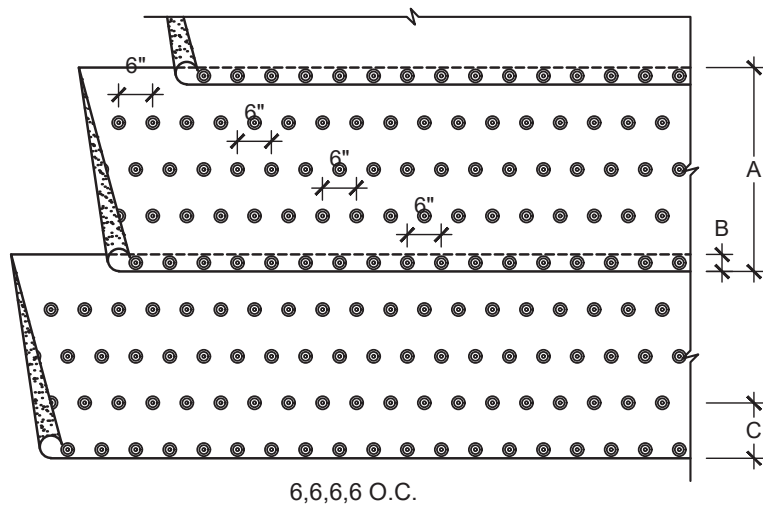
6,9,9 O.C.

A	B	C	FATENERS PER SQ
36"	2"	11.34"	165
	3"	11"	170
	4"	10.67"	175
39.375"	3"	12.13"	154
	4"	11.8"	159



6,6,6,6 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	8.5"	283
	3"	8.25"	291
	4"	8"	300
39.375"	3"	9.1"	264
	4"	8.85"	272



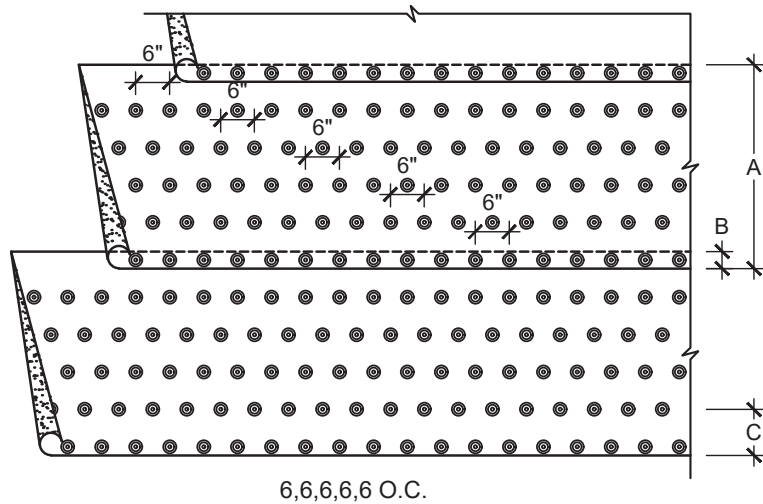
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

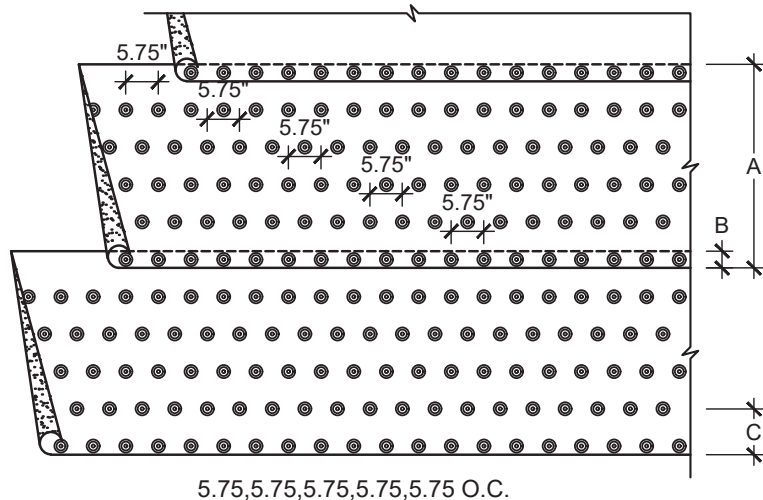
6,6,6,6,6 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	6.8"	353
	3"	6.6"	364
	4"	6.4"	375
39.375"	3"	7.28"	330
	4"	7.08"	340



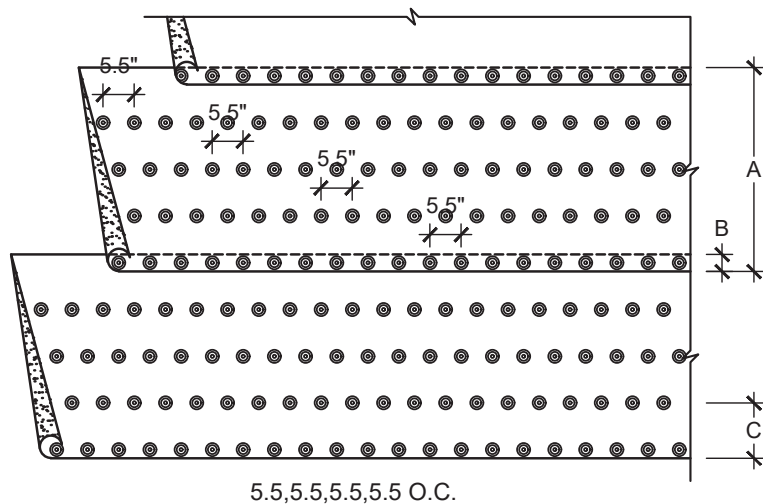
5.75,5.75,5.75,5.75,5.75 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	6.8"	369
	3"	6.6"	380
	4"	6.4"	392
39.375"	3"	7.28"	345
	4"	7.08"	354



5.5,5.5,5.5,5.5,5.5 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	8.5"	309
	3"	8.25"	318
	4"	8"	328
39.375"	3"	9.1"	288
	4"	8.85"	297



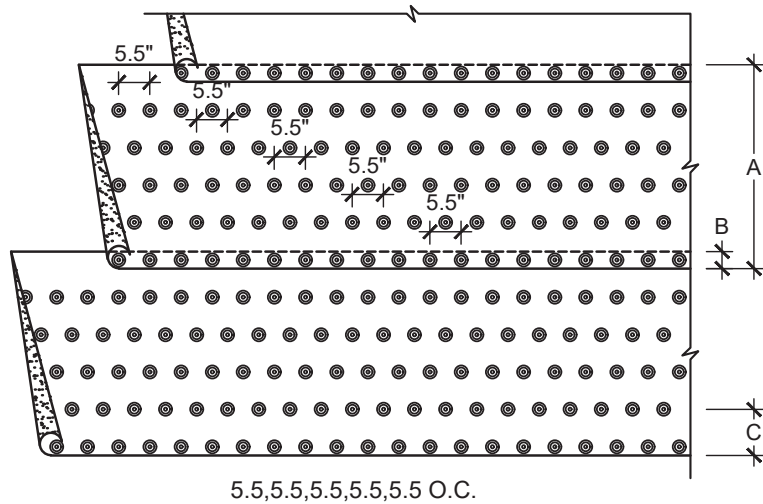
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

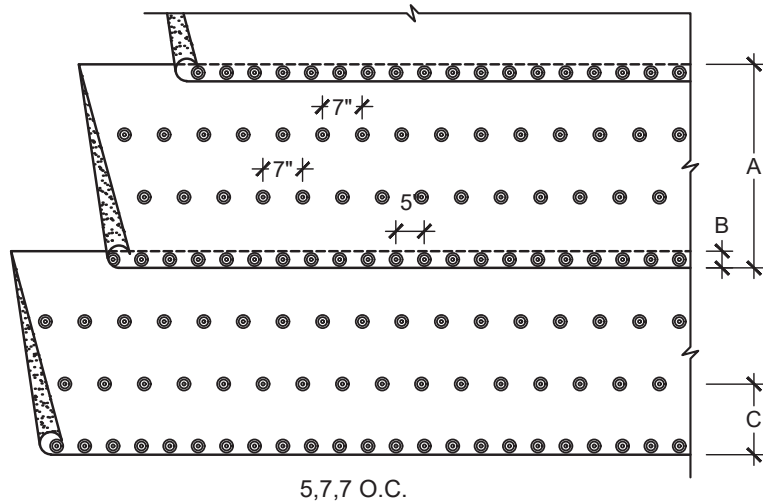
5.5,5.5,5.5,5.5,5.5 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	6.8"	386
	3"	6.6"	397
	4"	6.4"	410
39.375"	3"	7.28"	360
	4"	7.08"	371



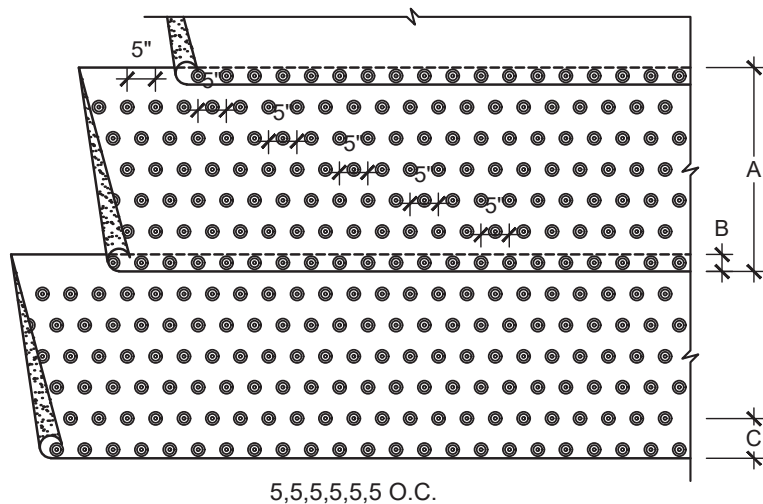
5,7,7 O.C.

A	B	C	FATENERS PER SQ
36"	2"	11.34"	206
	3"	11"	212
	4"	10.67"	219
39.375"	3"	12.13"	193
	4"	11.8"	198



5,5,5,5,5 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	5.67"	509
	3"	5.5"	524
	4"	5.34"	540
39.375"	3"	6.07"	476
	4"	5.9"	489



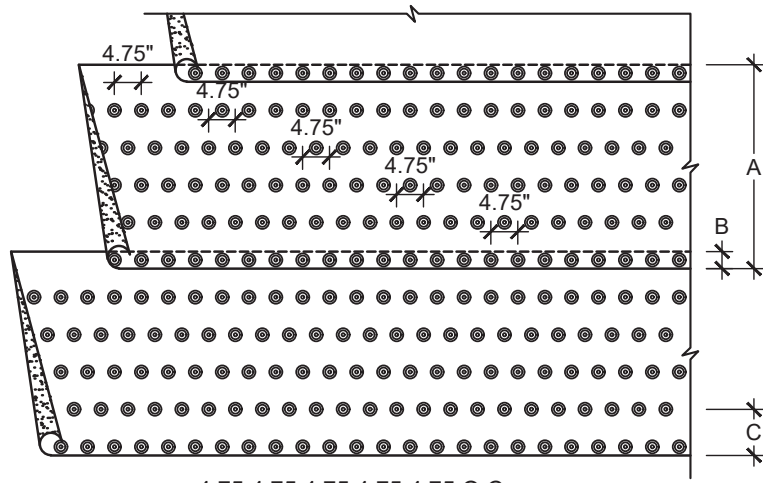
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

4.75,4.75,4.75,4.75,4.75 O.C.

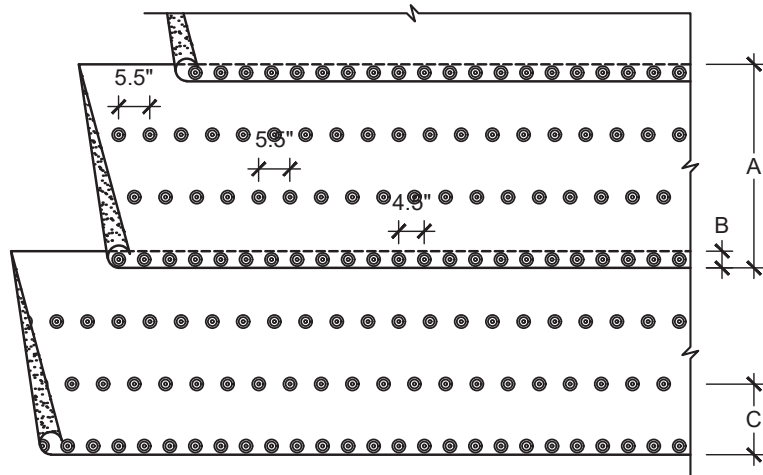
A	B	C	FASTENERS PER SQ
36"	2"	6.8"	446
	3"	6.6"	460
	4"	6.4"	474
39.375"	3"	7.28"	417
	4"	7.08"	429



4.75,4.75,4.75,4.75,4.75 O.C.

4.5,5.5,5.5,5.5 O.C.

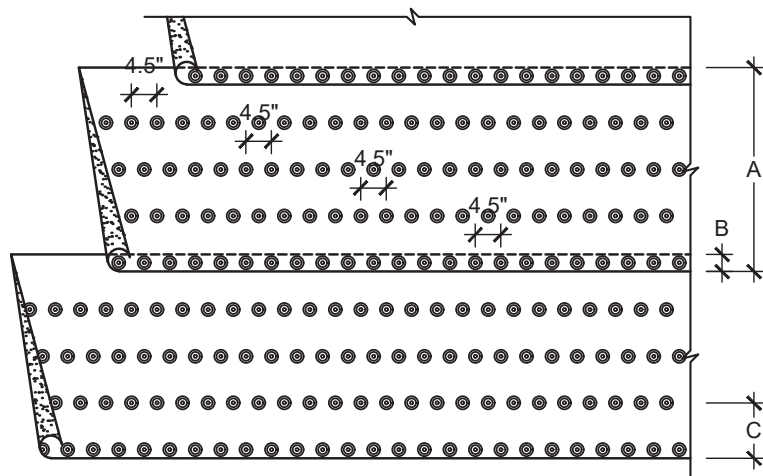
A	B	C	FATENERS PER SQ
36"	2"	11.34"	249
	3"	11"	256
	4"	10.67"	264
39.375"	3"	12.13"	232
	4"	11.8"	239



4.5,5.5,5.5 O.C.

4.5,4.5,4.5,4.5, O.C.

A	B	C	FASTENERS PER SQ
36"	2"	8.5"	377
	3"	8.25"	388
	4"	8"	400
39.375"	3"	9.1"	352
	4"	8.85"	362



4.5,4.5,4.5,4.5, O.C.

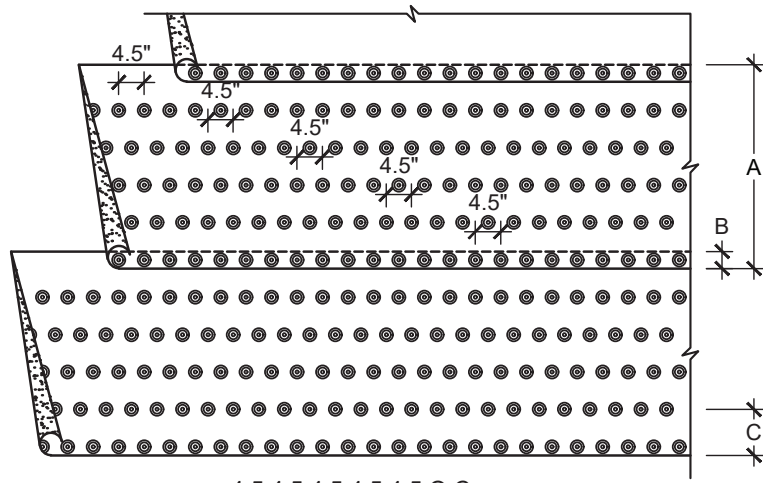
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

4.5,4.5,4.5,4.5,4.5 O.C.

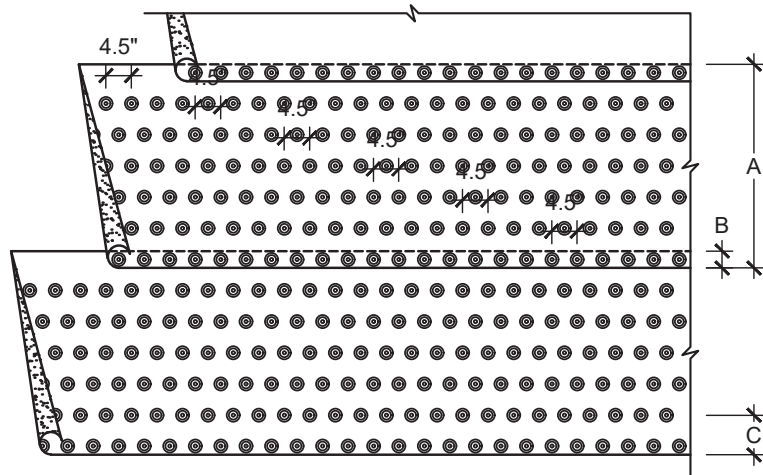
A	B	C	FASTENERS PER SQ
36"	2"	6.8"	471
	3"	6.6"	485
	4"	6.4"	500
39.375"	3"	7.28"	440
	4"	7.08"	453



4.5,4.5,4.5,4.5,4.5 O.C.

4.5,4.5,4.5,4.5,4.5,4.5 O.C.

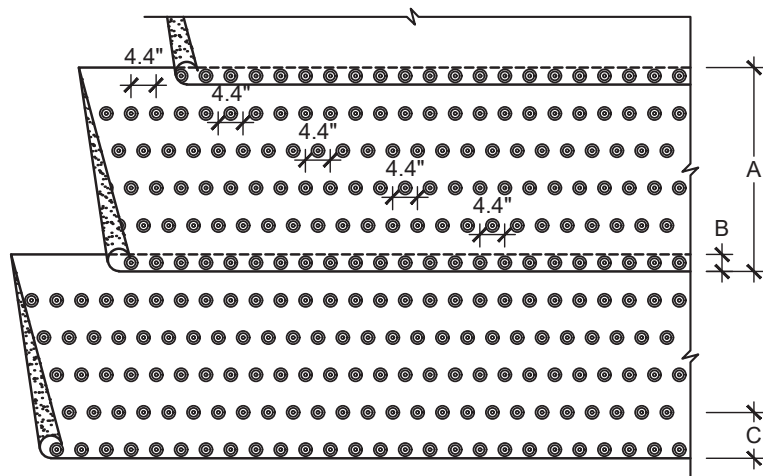
A	B	C	FASTENERS PER SQ
36"	2"	5.67"	565
	3"	5.5"	582
	4"	5.34"	600
39.375"	3"	6.07"	528
	4"	5.9"	543



4.5,4.5,4.5,4.5,4.5,4.5 O.C.

4.4,4.4,4.4,4.4,4.4 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	6.8"	482
	3"	6.6"	496
	4"	6.4"	512
39.375"	3"	7.28"	450
	4"	7.08"	463



4.4,4.4,4.4,4.4,4.4 O.C.

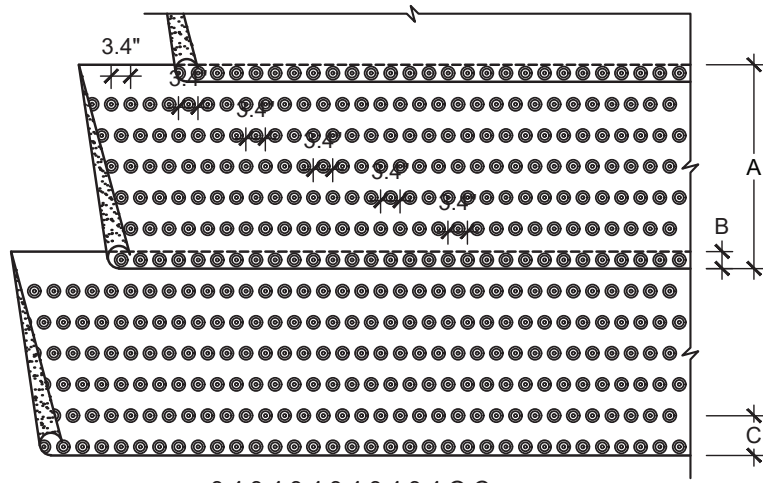
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

3.4,3.4,3.4,3.4,3.4,3.4,3.4 O.C.

A	B	C	FASTENERS PER SQ
36"	2"	5.67"	748
	3"	5.5"	771
	4"	5.34"	795
39.375"	3"	6.07"	699
	4"	5.9"	719



3.4,3.4,3.4,3.4,3.4,3.4,3.4 O.C.

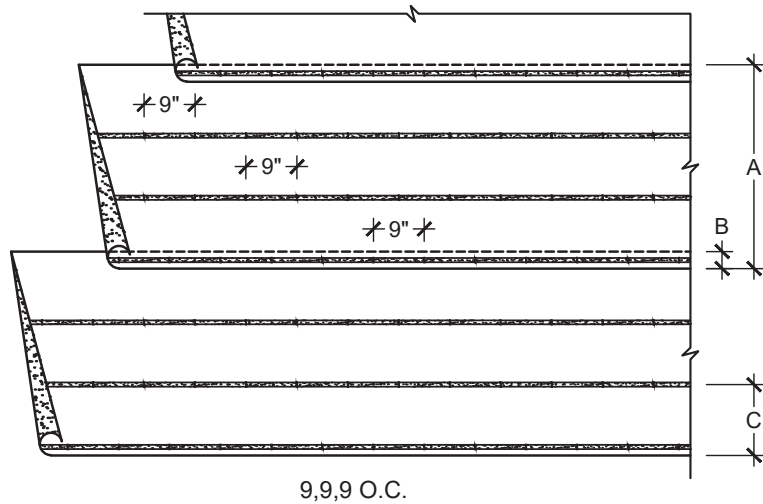
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

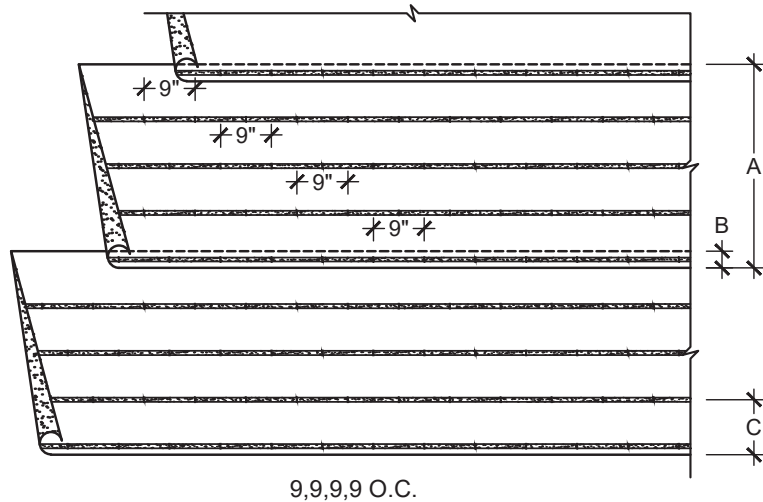
9,9,9 O.C.

A	B	C	STAPLES PER SQ
36"	2"	11.34"	142
	3"	11"	146
	4"	10.67"	150
39.375"	3"	12.13"	132
	4"	11.8"	136



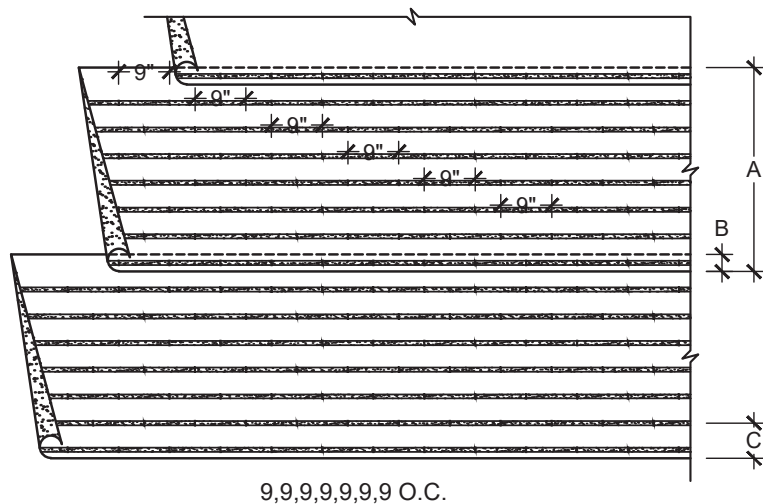
9,9,9,9 O.C.

A	B	C	STAPLES PER SQ
36"	2"	8.5"	189
	3"	8.25"	194
	4"	8"	200
39.375"	3"	9.1"	176
	4"	8.85"	181



9,9,9,9,9,9 O.C.

A	B	C	STAPLES PER SQ
36"	2"	4.86"	330
	3"	4.72"	340
	4"	4.58"	350
39.375"	3"	5.2"	308
	4"	5.06"	317



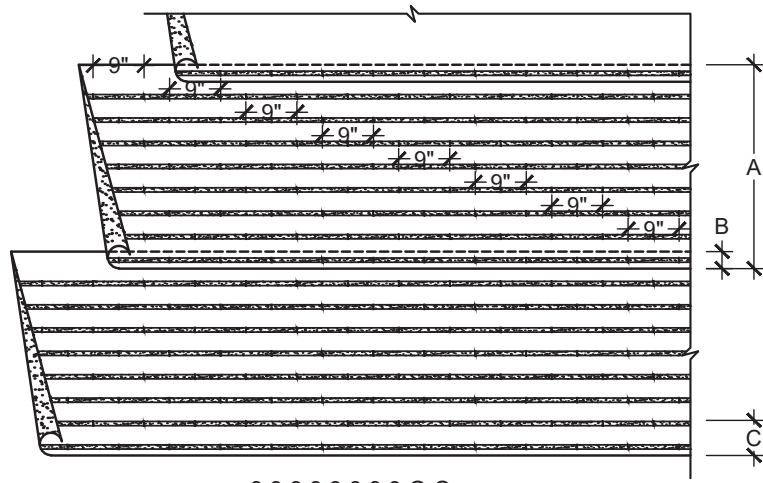
A = Sheet Width

B = Seam Width (Overlap)

C = Additional Row Spacing

9,9,9,9,9,9,9 O.C.

A	B	C	STAPLES PER SQ
36"	2"	4.25"	377
	3"	4.13"	388
	4"	4"	400
39.375"	3"	4.55"	352
	4"	4.43"	362



9,9,9,9,9,9,9 O.C.