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ARCHITECTURAL DETAIL MANUAL

Martin Finger Shield™ Garage Door System

Safer for Children and Adults

Most old Martin steel sectional doors can be upgraded with the new safety features.

Architectural Detail Manual is also available on CD and includes drawings and

SPECIFICATION CATALOG 2022

SPECS and DRAWINGS

**ISO 9001
Quality
Standard**



ISO 9001

MARTIN DOOR MANUFACTURING

MAILING ADDRESS:

P.O. Box 27437

Salt Lake City, UT 84127-0437 U.S.A.

Web Site: www.martindoor.com

SHIPPING ADDRESS:

2828 South 900 West

Salt Lake City, UT 84119 U.S.A.

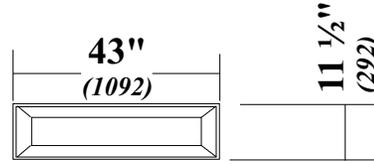
MARTIN DOORS ARE PROTECTED BY U.S. PATENT NUMBERS:
4,284,119; 4,347,653; Re. 31,461; 4,492,067; 4,588,175; 4,817,927;
4,934,439; 5,027,494; 5,588,475; 5,630,459 AND OTHER PATENTS PENDING
AD-01SC-04 COPYRIGHT © 2004 ALL RIGHTS RESERVED

(RA and SL) Long Raised Panel door dimensions

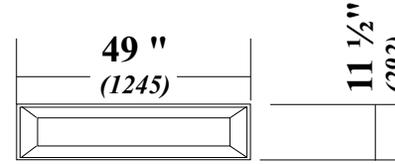
Montana(MO) is only available with 18"(457), 21"(533) sections to 8'(2440) high doors.

Panel Dimensions by door width

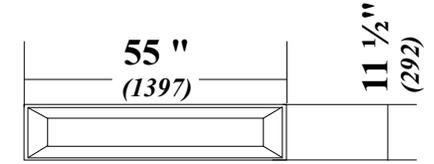
21" high sections
(533)



(used for door widths 8'2"(2490), 12'2"(3710), 16'2"(4930) & 17'2"(5230))

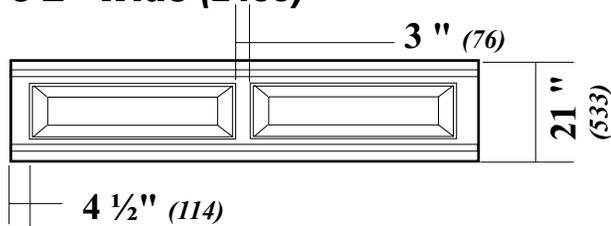


(used for door widths 9'2"(2790), 14'2"(4320) & 18'2"(5540))

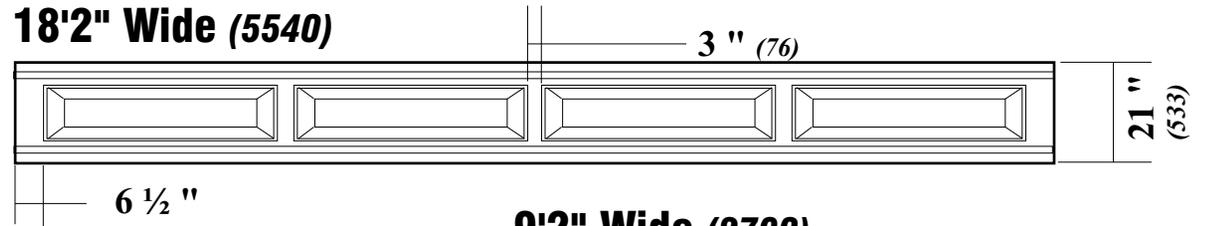


(used for door widths 10'2"(3100), 15'2"(4620) & 20'2"(6150))

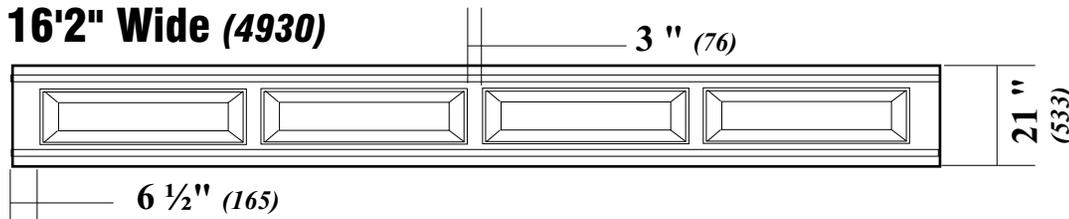
8'2" Wide (2490)



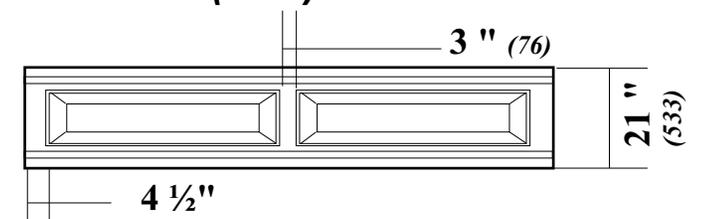
18'2" Wide (5540)



16'2" Wide (4930)

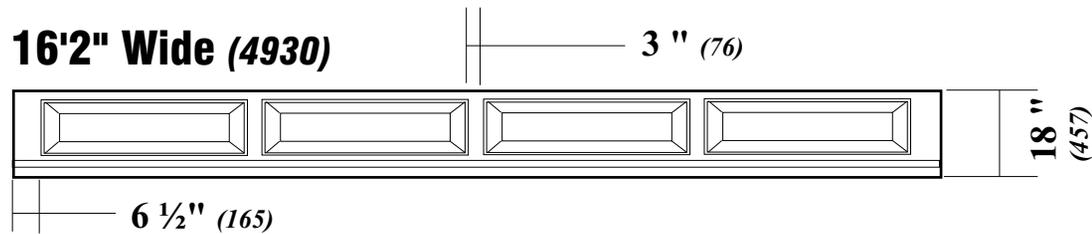


9'2" Wide (2790)



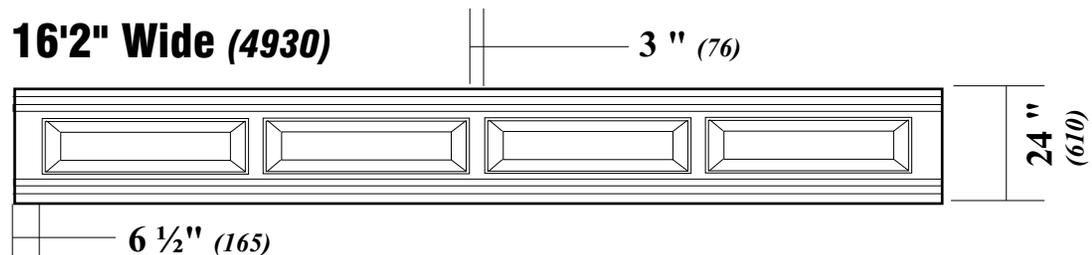
18" high sections
(457)

16'2" Wide (4930)



24" high sections
(610)

16'2" Wide (4930)



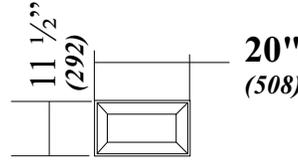
Scale 1:40

(WL and SP) Short Raised Panel door dimensions

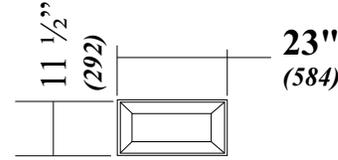
SP in 8'2", 9'2", 15'2", 16'2", & 18'2" wide only

Panel Dimensions by door width

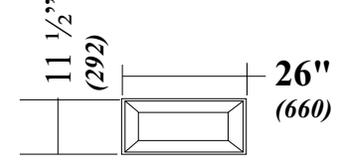
21" high sections (533)



(used for door widths 8'2" (2490), 12'2" (3710), 16'2" (4930) & 17'2" (5230))

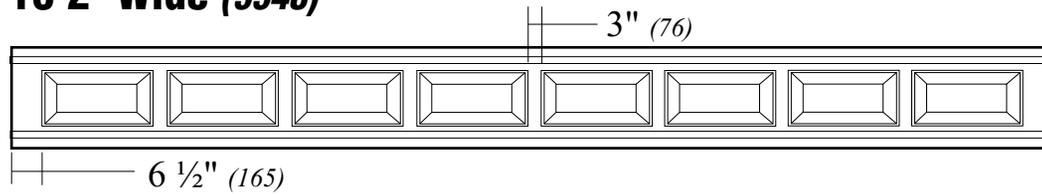


(used for door widths 7'6" (2290), 9'2" (2790), 14'2" (4320) & 18'2" (5540))

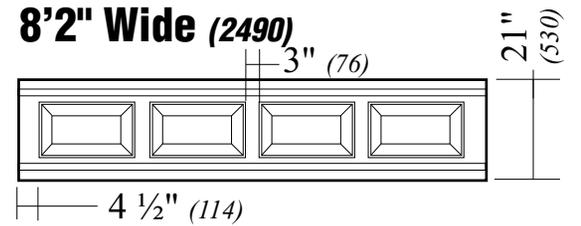


(used for door widths 10'2" (3100), 15'2" (4620) & 20'2" (6150))

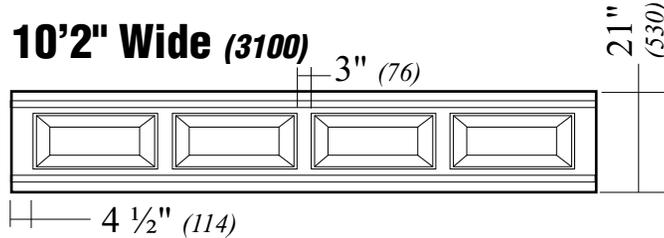
18'2" Wide (5540)



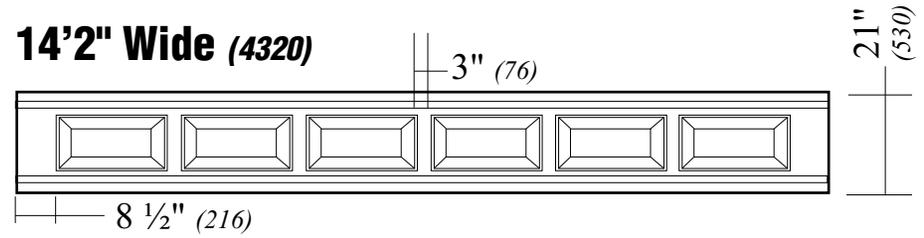
8'2" Wide (2490)



10'2" Wide (3100)



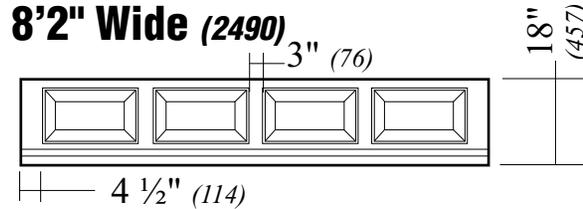
14'2" Wide (4320)



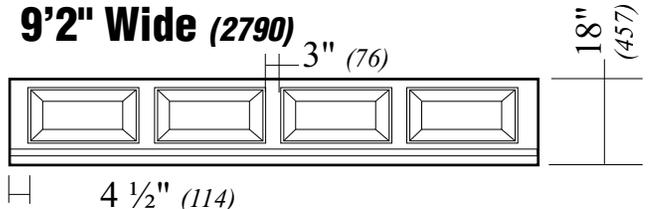
18" high sections (457)

Not shown 10'2", 12'2", 15'2", 16'2", 17'2", 18'2", 20'2" & 24'2" wide

8'2" Wide (2490)



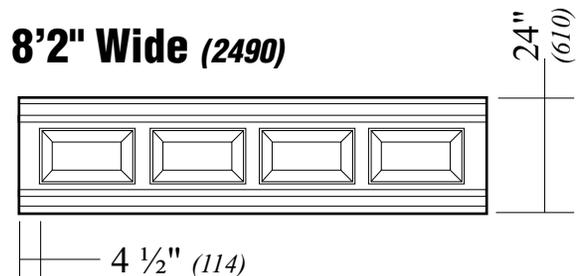
9'2" Wide (2790)



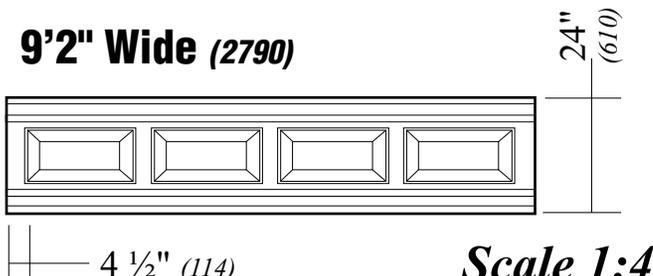
24" high sections (610)

Not shown 10'2", 12'2", 15'2", 16'2", 17'2", 18'2", 20'2" & 24'2" wide

8'2" Wide (2490)



9'2" Wide (2790)



Scale 1:40

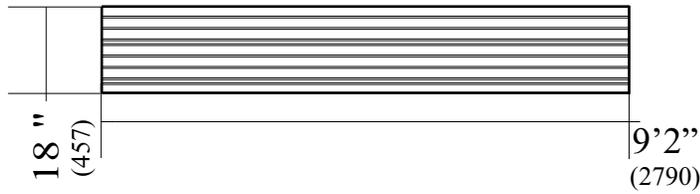
(HT) Hi-Tensil™ Ribbed door, (FL) Flushline™ Single Rib flush door, and Security window dimensions

Hi-Tensil™

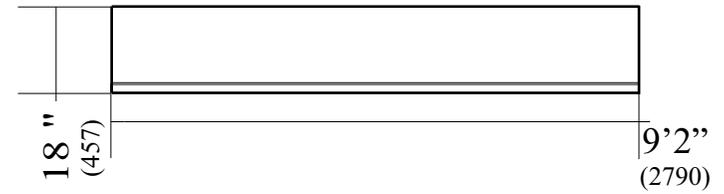
Flushline™

18" high sections
(457)

9'2" Wide
(2790)

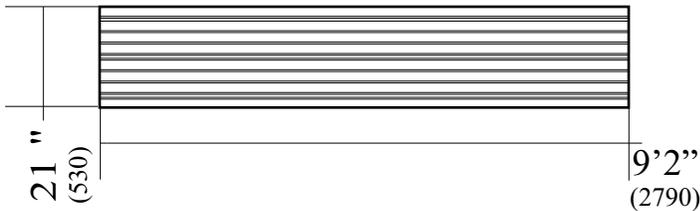


9'2" Wide
(2790)

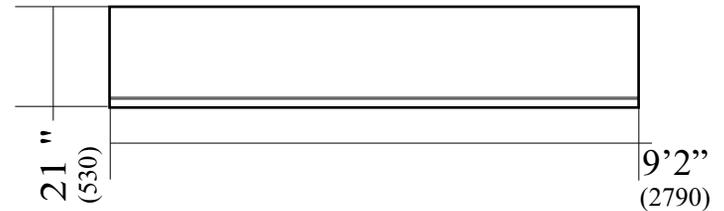


21" high sections
(530)

9'2" Wide
(2790)

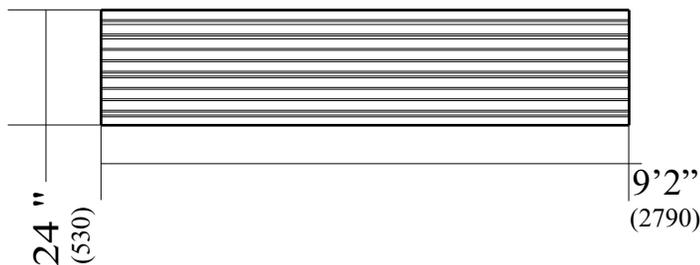


9'2" Wide
(2790)



24" high sections
(610)

9'2" Wide
(2790)

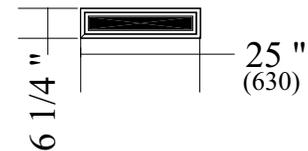


24" (610) high sections

Not available for Flushline™ doors.

Security Windows

Available for both Hi-Tensil™ and Flushline™ doors.



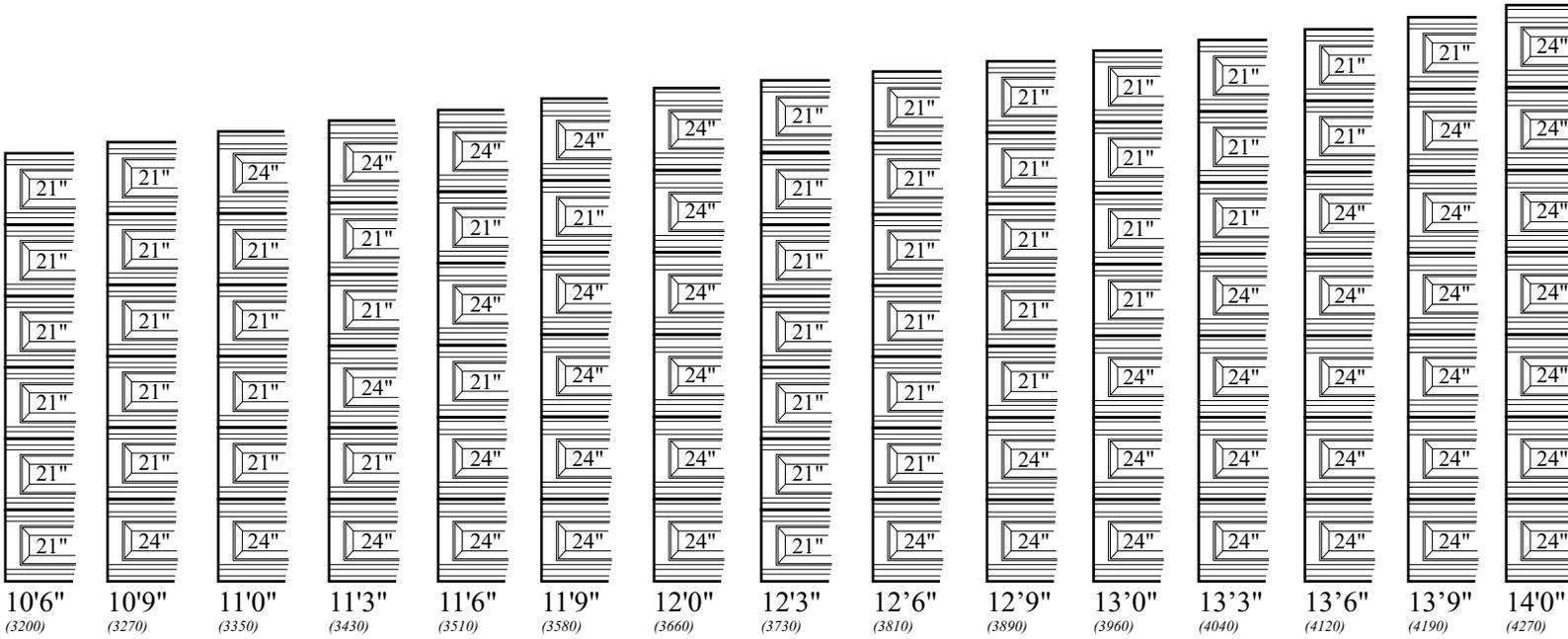
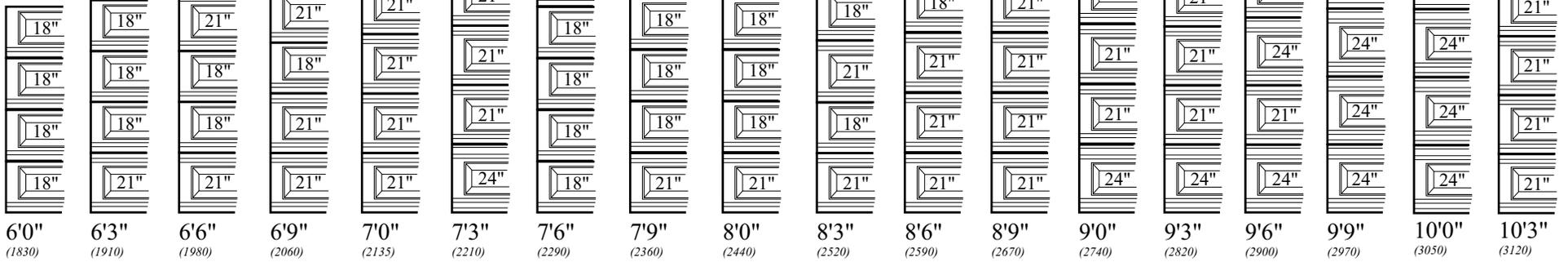
Scale 1:40

Height examples

18" = (457)

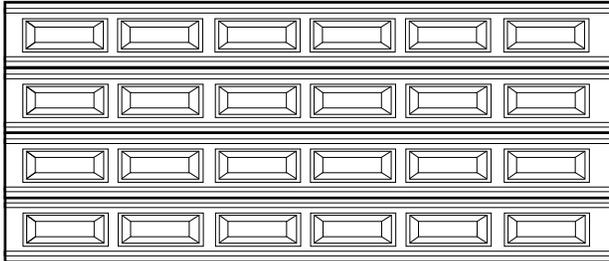
21" = (533)

24" = (610)

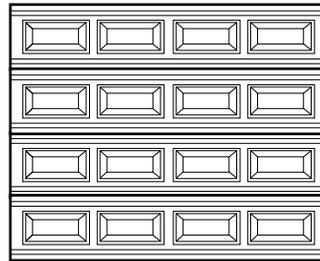


Additional heights to 20'0" (6090) are available in 3" (76) increments.

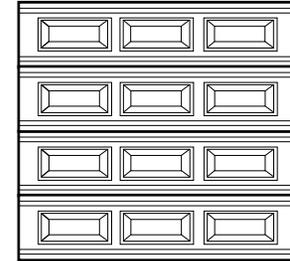
(WL) Short Raised Panel Examples



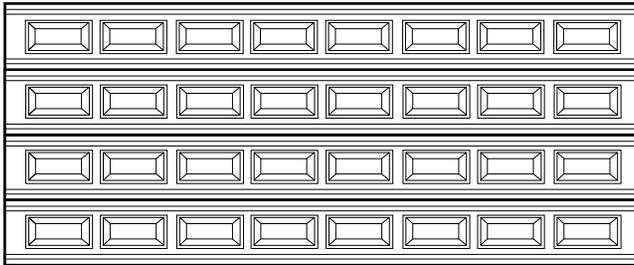
15'2" X 7' (4620 X 2130)



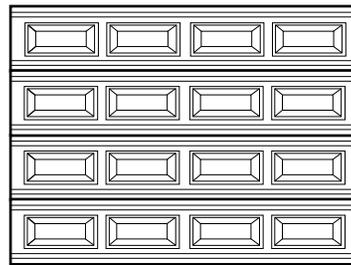
8'2" X 7' (2490 X 2130)



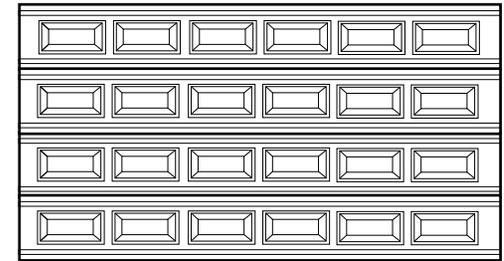
7'8" X 7' (2340 X 2130) *N/A SP*



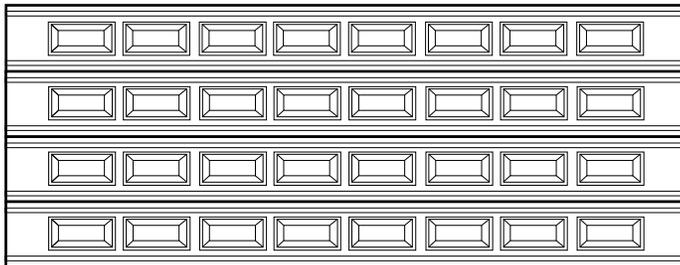
16'2" X 7' (4930 X 2130)



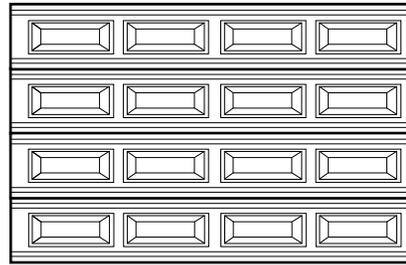
9'2" X 7' (2790 X 2130)



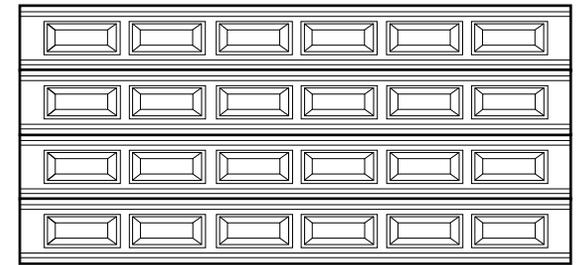
12'2" X 7' (3710 X 2130) *N/A SP*



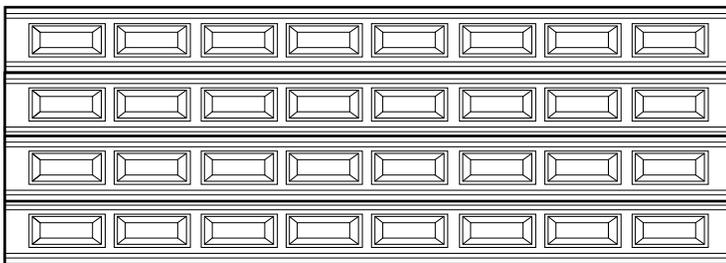
17'2" X 7' (5230 X 2130) (STRETCHED 16') *N/A SP*



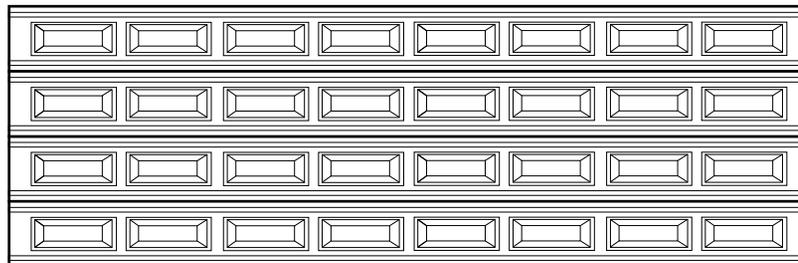
10'2" X 7' (3100 X 2130) *N/A SP*



14'2" X 7' (4320 X 2130) *N/A SP*

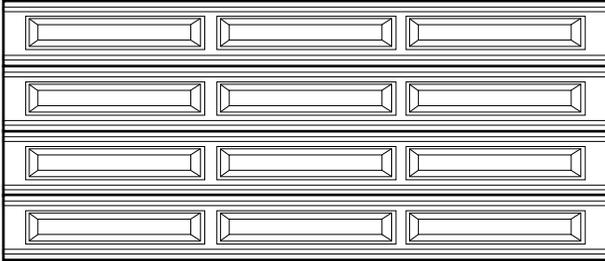


18'2" X 7' (5540 X 2130)

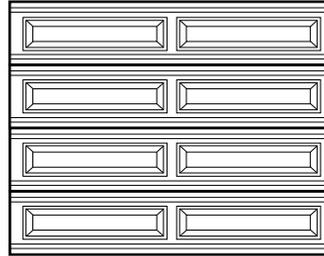


20'2" X 7' (6150 X 2130) *N/A SP*

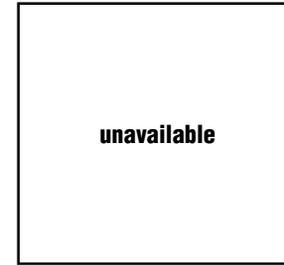
(RA) Long Raised Panel Examples



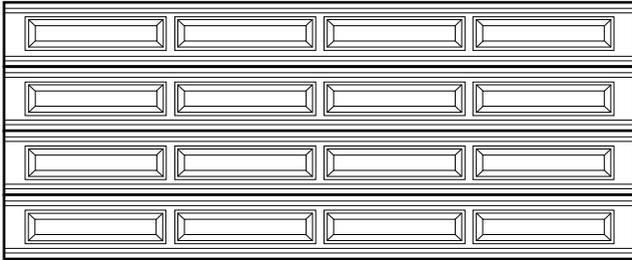
15'2" X 7' (4620 X 2130)



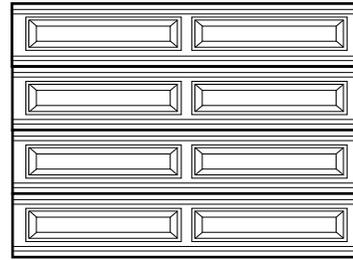
8'2" X 7' (2490 X 2130)



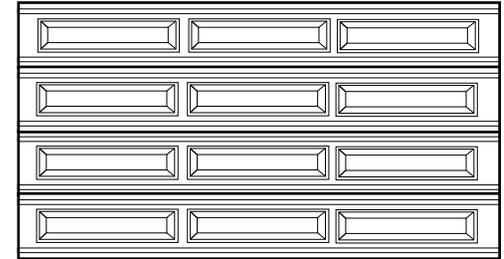
7'8" X 7' (2340 X 2130)



16'2" X 7' (4930 X 2130)

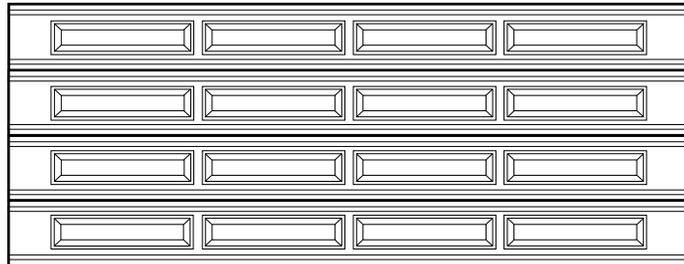


9'2" X 7' (2790 X 2130)



12'2" X 7' (3710 X 2130)

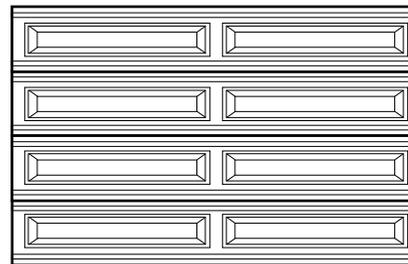
N/A Montana or SL



17'2" X 7' (5230 X 2130)

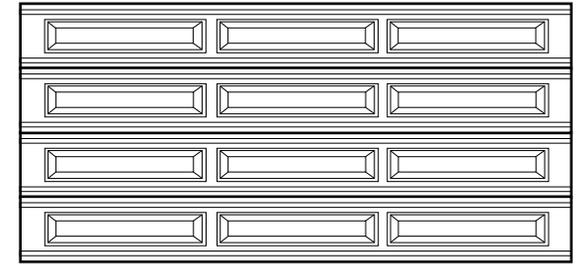
(STRETCHED 16')

N/A Montana or SL



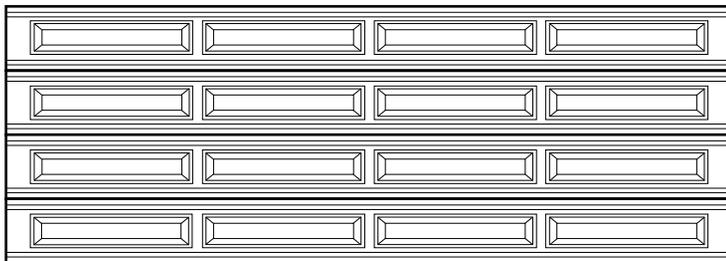
10'2" X 7' (3100 X 2130)

N/A Montana or SL



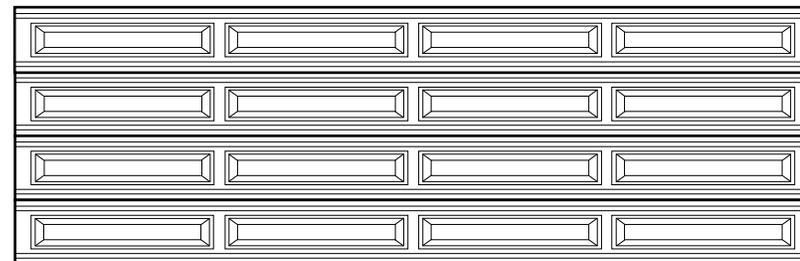
14'2" X 7' (4320 X 2130)

N/A Montana or SL



18'2" X 7' (5540 X 2130)

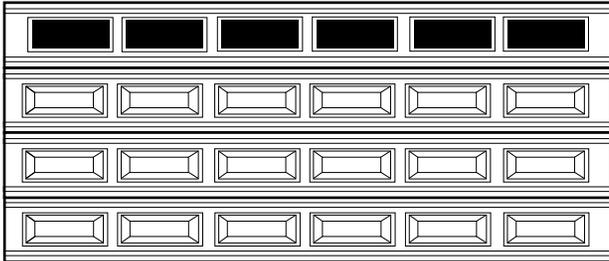
N/A Montana



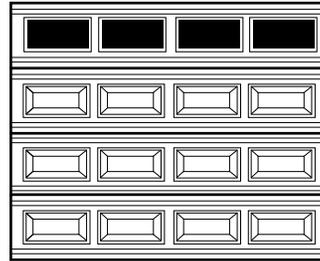
20'2" X 7' (6150 X 2130)

N/A Montana or SL

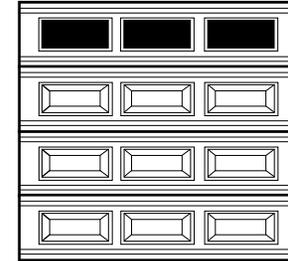
(DF) Designer Full View Short Window Examples



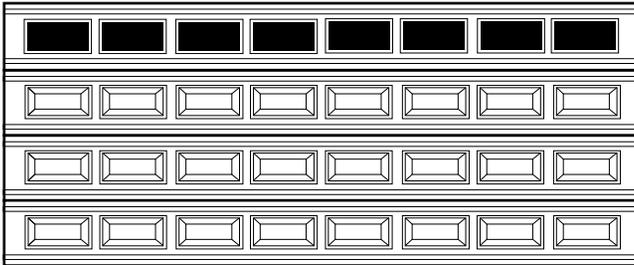
15'2" X 7' (4620 X 2130)



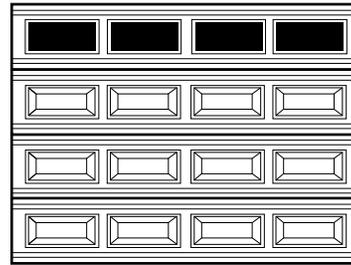
8'2" X 7' (2490 X 2130)



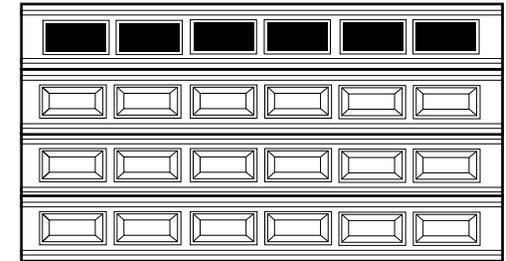
7'8" X 7' (2340 X 2130)



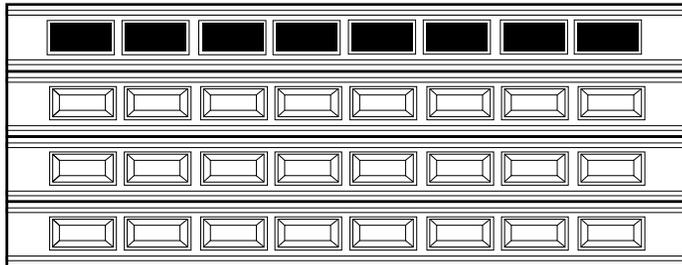
16'2" X 7' (4930 X 2130)



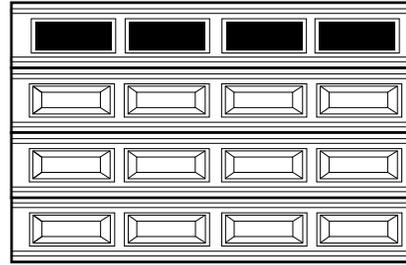
9'2" X 7' (2790 X 2130)



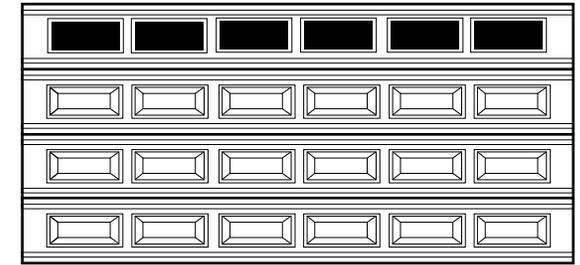
12'2" X 7' (3710 X 2130)



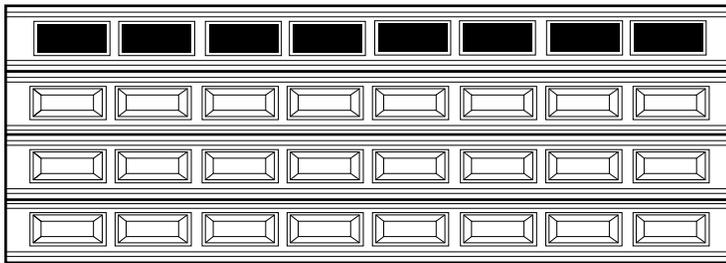
17'2" X 7' (5230 X 2130) *(Stretched 16')*



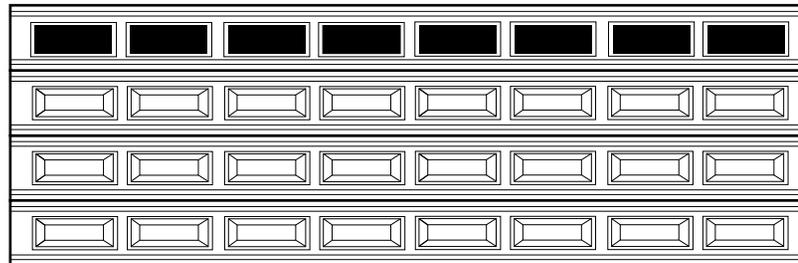
10'2" X 7' (3100 X 2130)



14'2" X 7' (4320 X 2130)

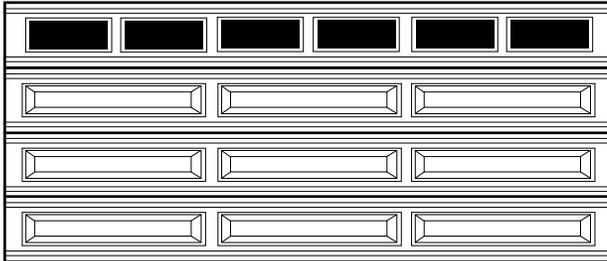


18'2" X 7' (5540 X 2130)

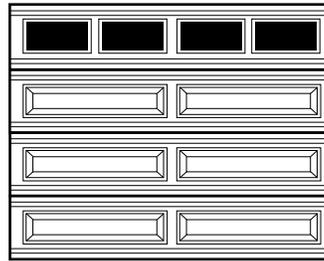


20'2" X 7' (6150 X 2130)

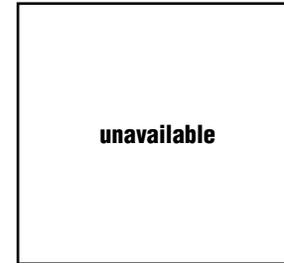
(DF) Designer Full View Short Window Examples



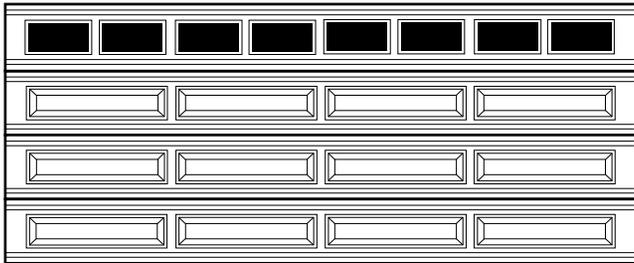
15'2" X 7' (4620 X 2130)



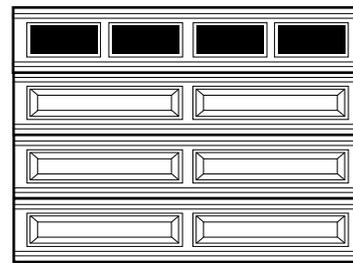
8'2" X 7' (2490 X 2130)



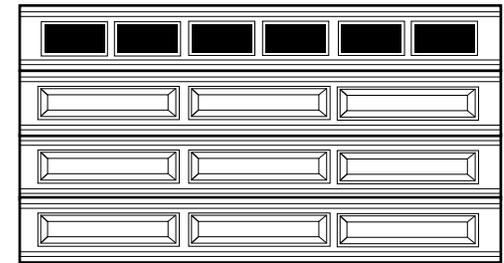
7'8" X 7' (2340 X 2130)



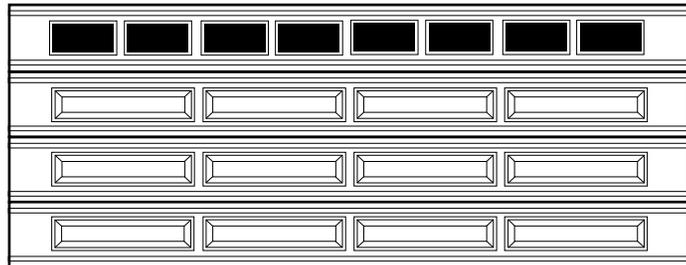
16'2" X 7' (4930 X 2130)



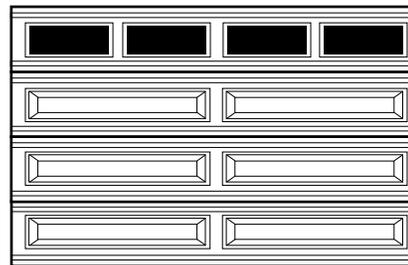
9'2" X 7' (2790 X 2130)



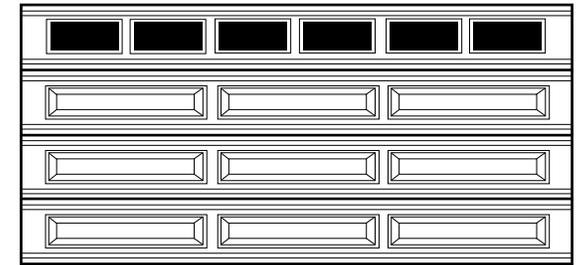
12'2" X 7' (3710 X 2130)



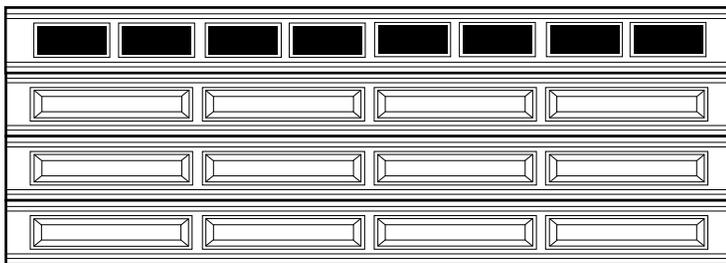
17'2" X 7' (5230 X 2130) (Stretched 16')



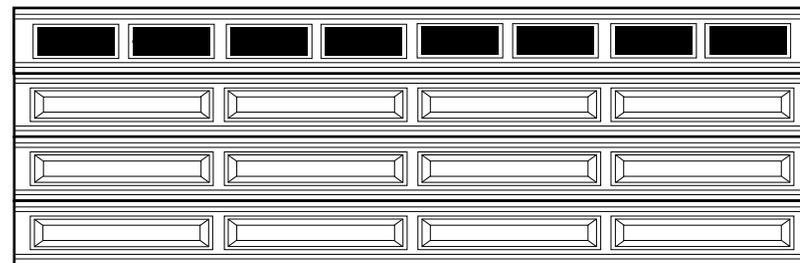
10'2" X 7' (3100 X 2130)



14'2" X 7' (4320 X 2130)

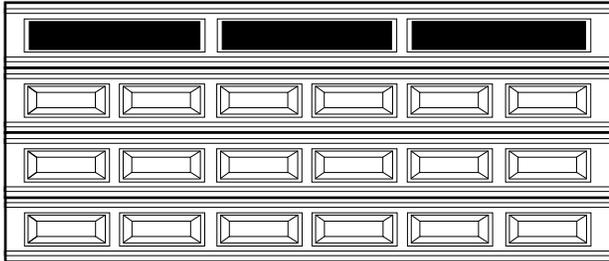


18'2" X 7' (5540 X 2130)

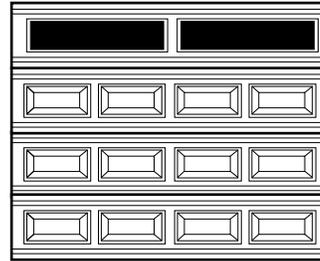


20'2" X 7' (6150 X 2130)

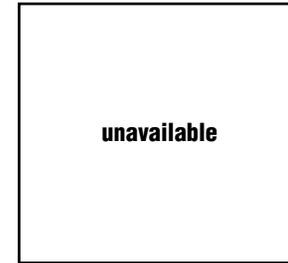
(DR) Designer Full View Long Window Examples



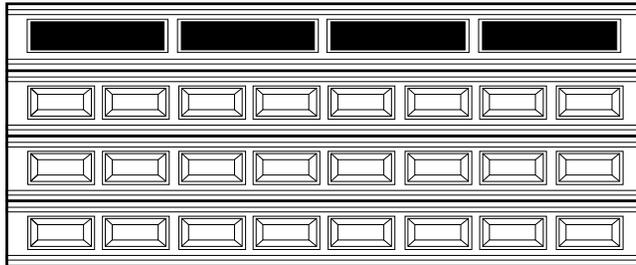
15'2" X 7' (4620 X 2130)



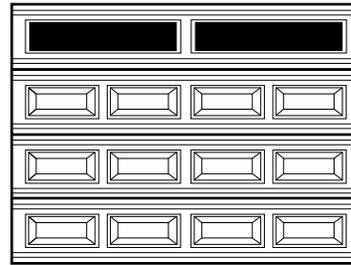
8'2" X 7' (2490 X 2130)



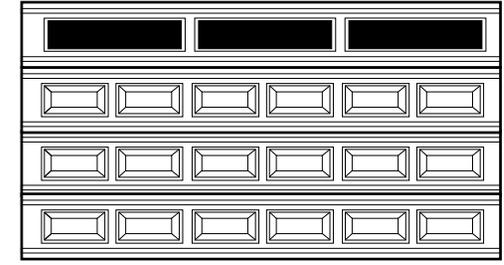
7'8" X 7' (2340 X 2130)



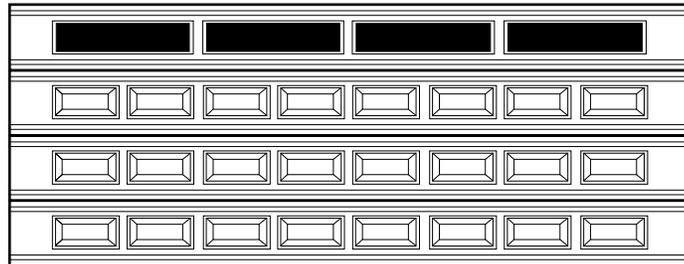
16'2" X 7' (4930 X 2130)



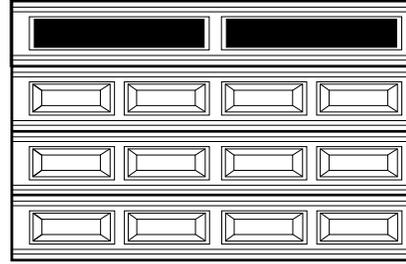
9'2" X 7' (2790 X 2130)



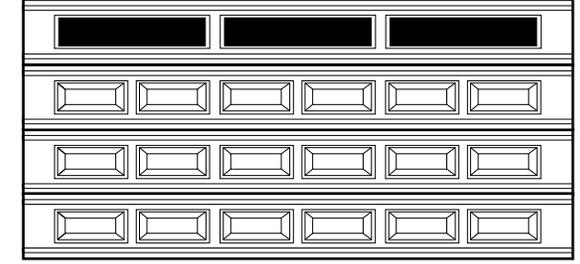
12'2" X 7' (3710 X 2130)



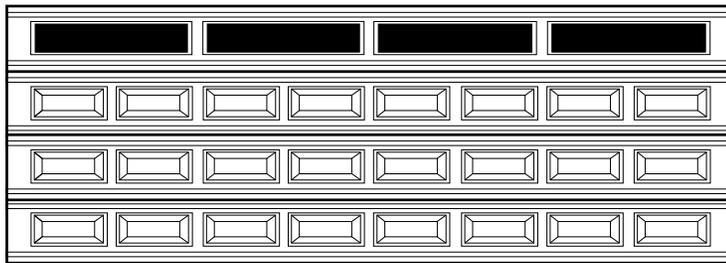
17'2" X 7' (5230 X 2130)



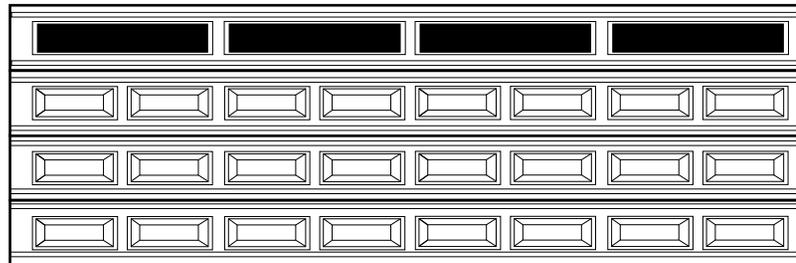
10'2" X 7' (3100 X 2130)



14'2" X 7' (4320 X 2130)

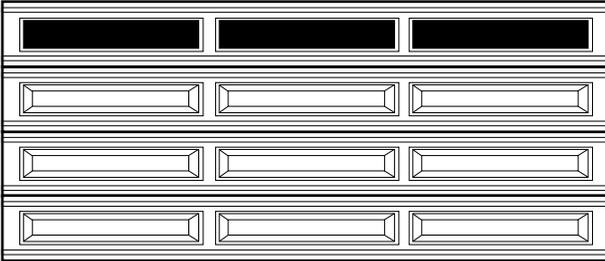


18'2" X 7' (5540 X 2130)

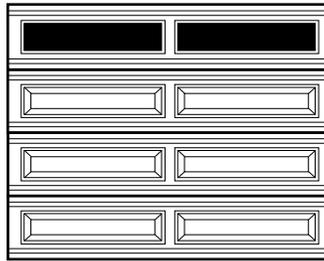


20'2" X 7' (6150 X 2130)

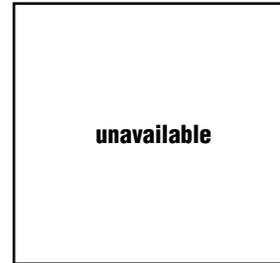
(DR) Designer Full View Long Window Examples



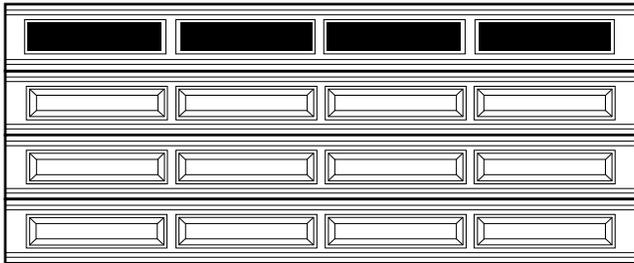
15'2" X 7' (4620 X 2130)



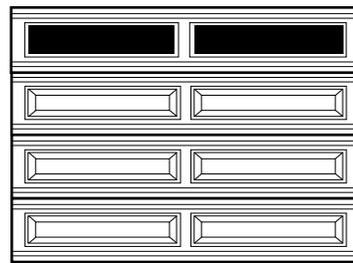
8'2" X 7' (2490 X 2130)



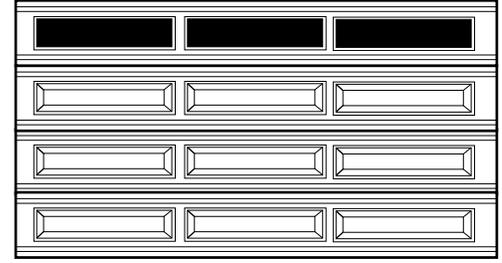
7'8" X 7' (2340 X 2130)



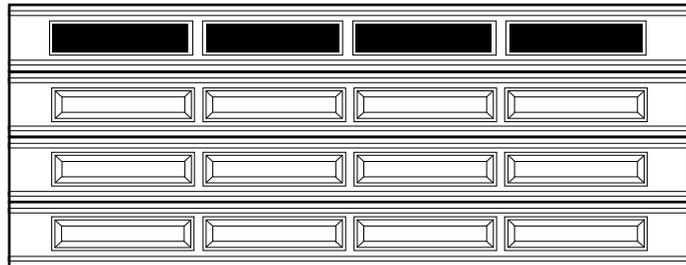
16'2" X 7' (4930 X 2130)



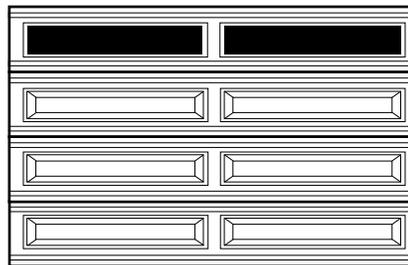
9'2" X 7' (2790 X 2130)



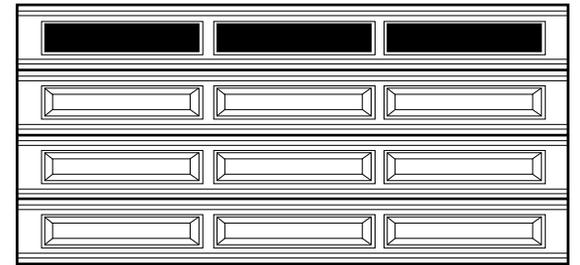
12'2" X 7' (3710 X 2130)



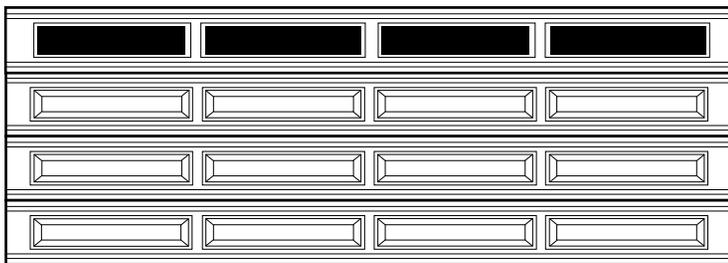
17'2" X 7' (5230 X 2130) (Stretched 16')



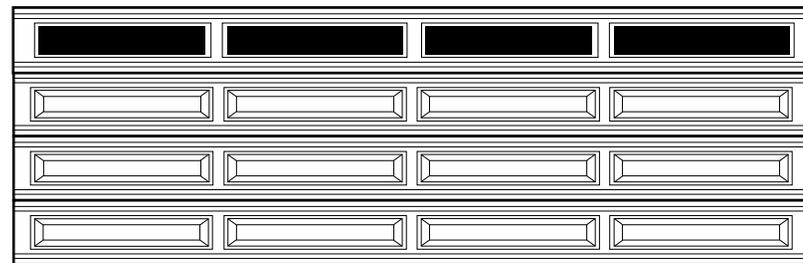
10'2" X 7' (3100 X 2130)



14'2" X 7' (4320 X 2130)

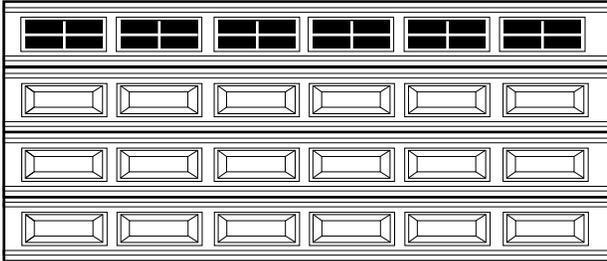


18'2" X 7' (5540 X 2130)

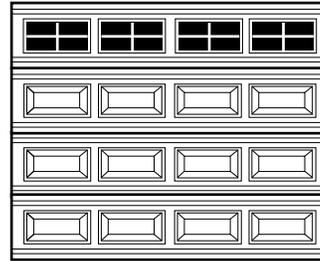


20'2" X 7' (6150 X 2130)

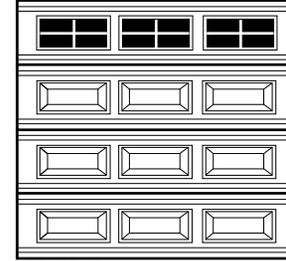
(VI) Virginian Short Window Examples



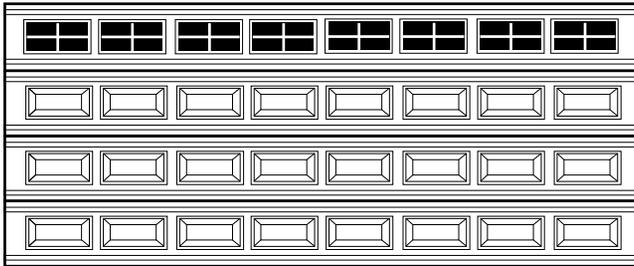
15'2" X 7' (4620 X 2130)



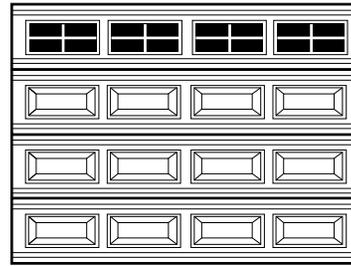
8'2" X 7' (2490 X 2130)



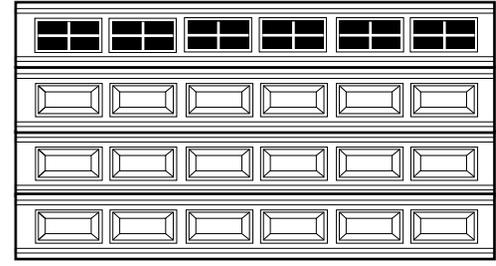
7'8" X 7' (2340 X 2130)



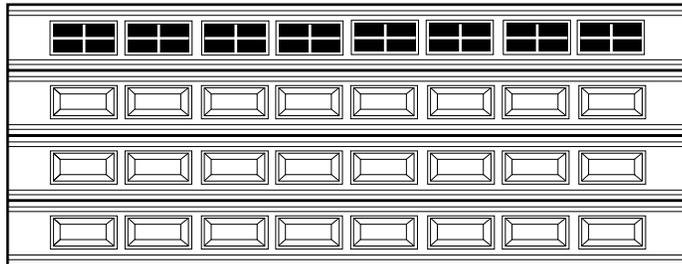
16'2" X 7' (4930 X 2130)



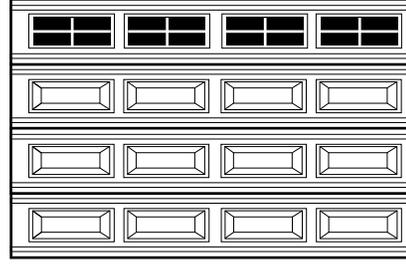
9'2" X 7' (2790 X 2130)



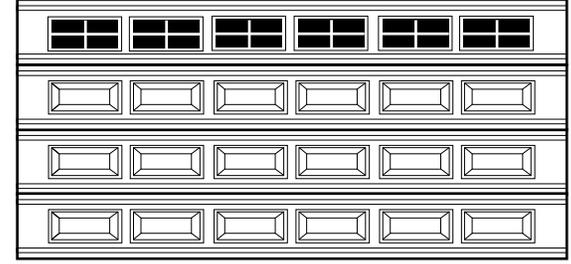
12'2" X 7' (3710 X 2130)



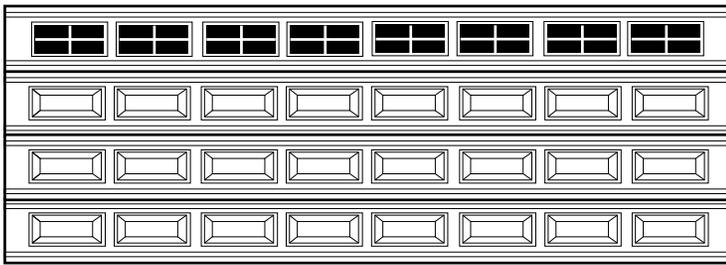
17'2" X 7' (5230 X 2130) (Stretched 16')



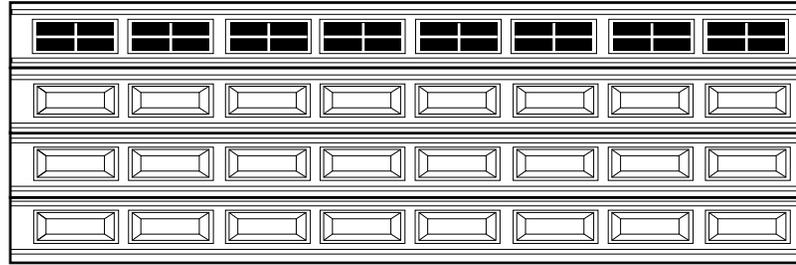
10'2" X 7' (3100 X 2130)



14'2" X 7' (4320 X 2130)

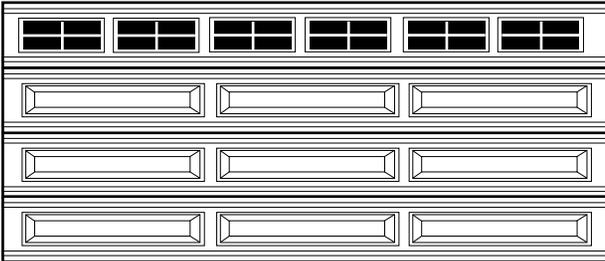


18'2" X 7' (5540 X 2130)

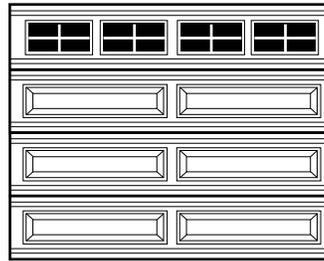


20'2" X 7' (6150 X 2130)

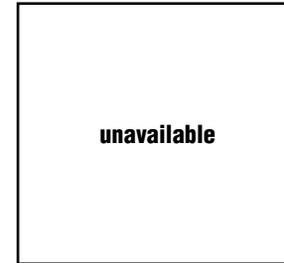
(VI) Virginian Short Window Examples



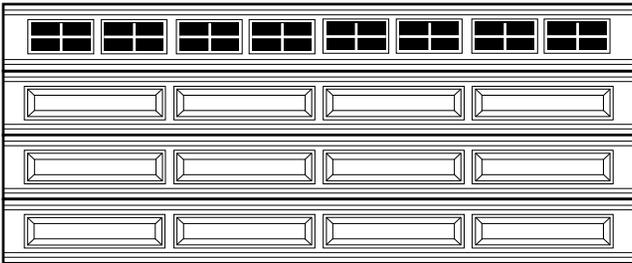
15'2" X 7' (4620 X 2130)



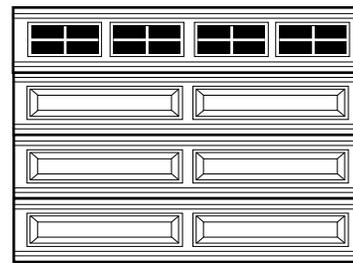
8'2" X 7' (2490 X 2130)



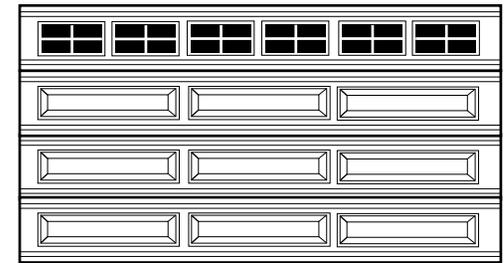
7'8" X 7' (2340 X 2130)



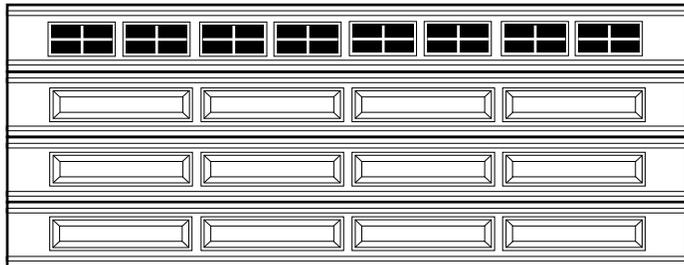
16'2" X 7' (4930 X 2130)



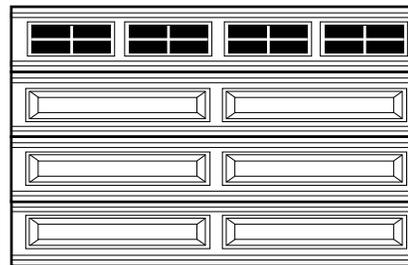
9'2" X 7' (2790 X 2130)



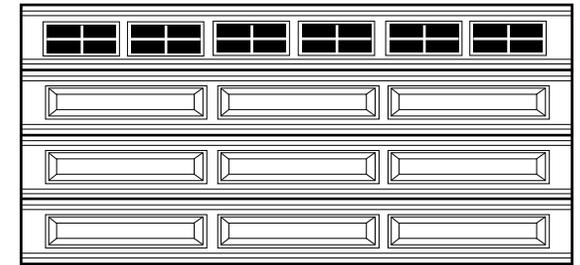
12'2" X 7' (3710 X 2130)



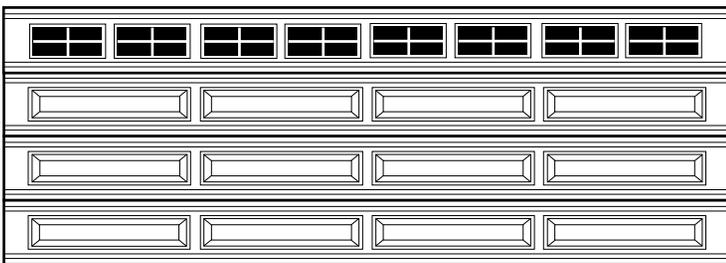
17'2" X 7' (5230 X 2130) (Stretched 16')



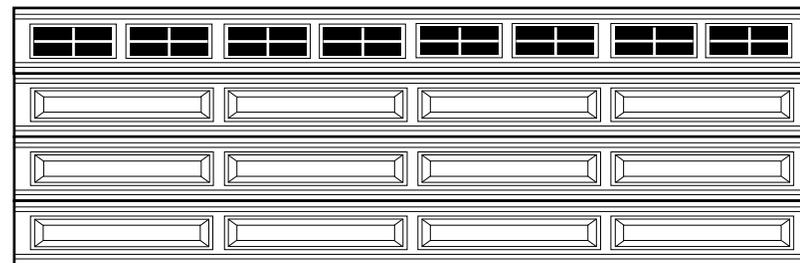
10'2" X 7' (3100 X 2130)



14'2" X 7' (4320 X 2130)

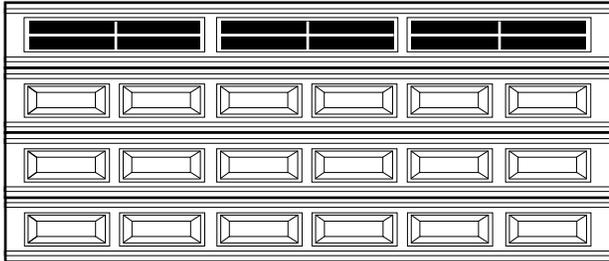


18'2" X 7' (5540 X 2130)

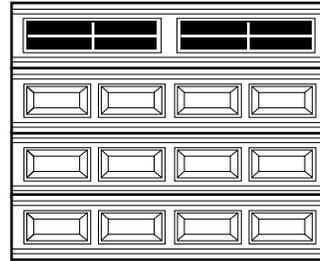


20'2" X 7' (6150 X 2130)

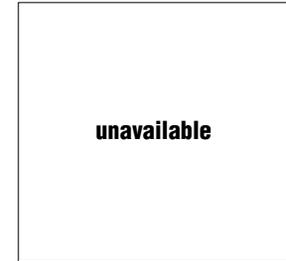
(VR) Virginian Long Window Examples



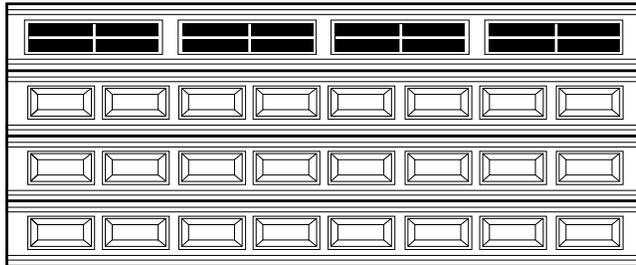
15'2" X 7' (4620 X 2130)



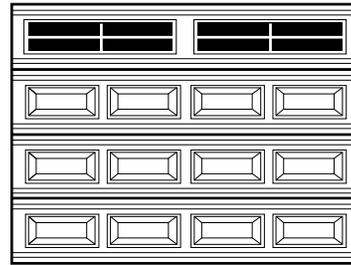
8'2" X 7' (2490 X 2130)



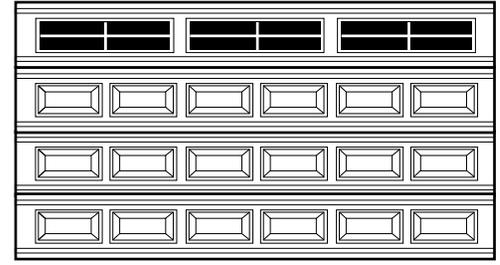
7'8" X 7' (2340 X 2130)



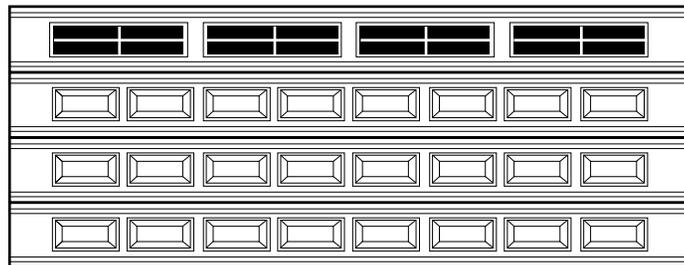
16'2" X 7' (4930 X 2130)



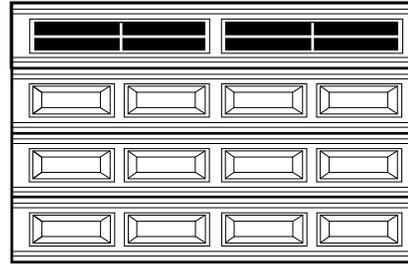
9'2" X 7' (2790 X 2130)



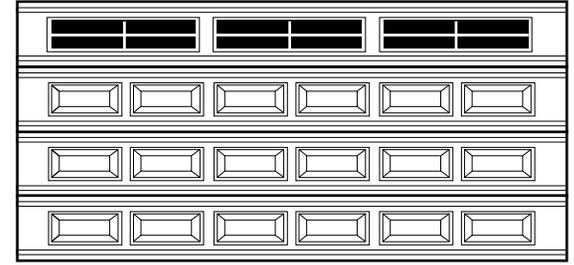
12'2" X 7' (3710 X 2130)



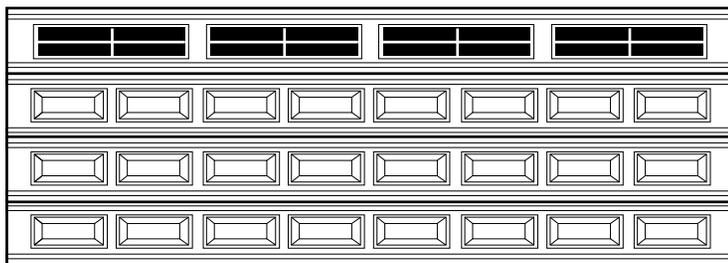
17'2" X 7' (5230 X 2130) *(Stretched 16')*



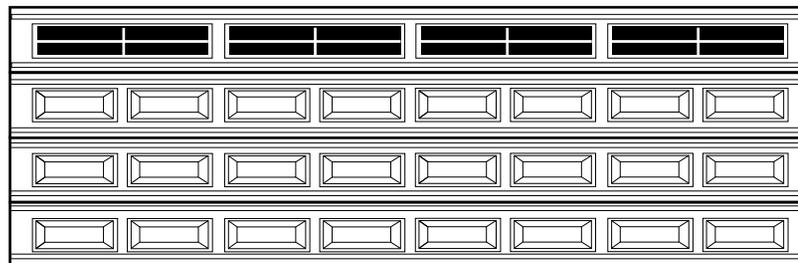
10'2" X 7' (3100 X 2130)



14'2" X 7' (4320 X 2130)

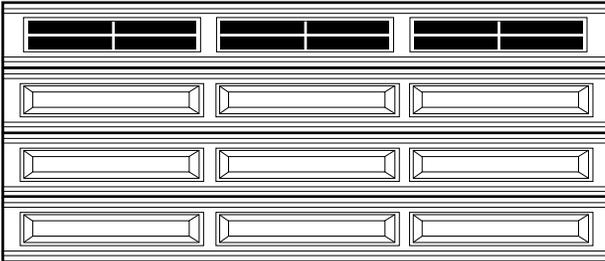


18'2" X 7' (5540 X 2130)

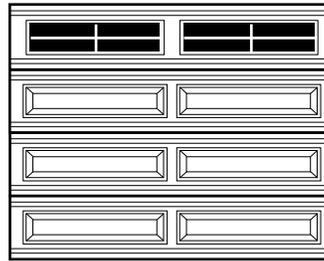


20'2" X 7' (6150 X 2130)

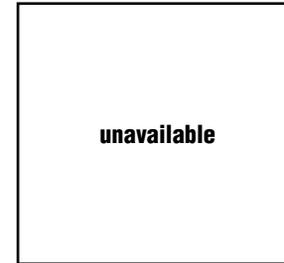
(VR) Virginian Long Window Examples



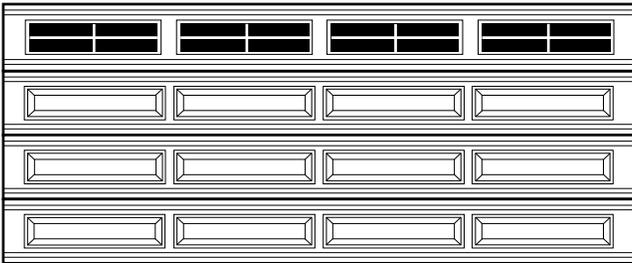
15'2" X 7' (4620 X 2130)



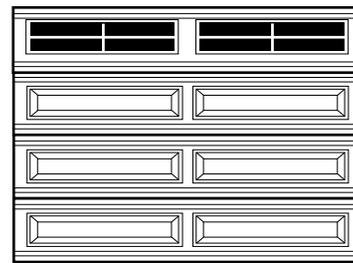
8'2" X 7' (2490 X 2130)



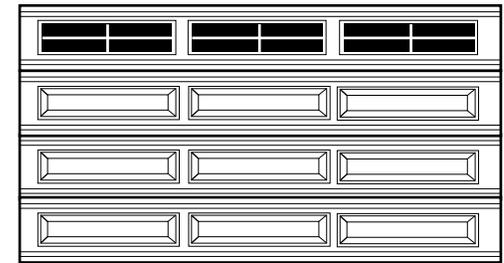
7'8" X 7' (2340 X 2130)



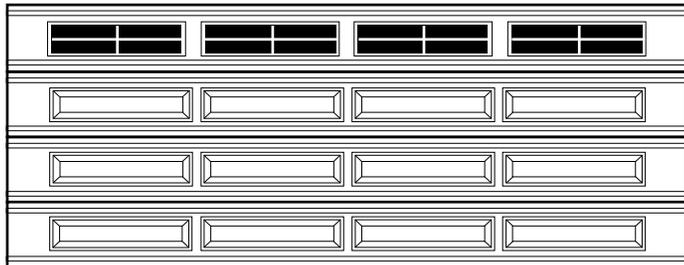
16'2" X 7' (4930 X 2130)



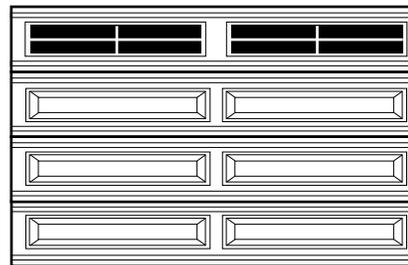
9'2" X 7' (2790 X 2130)



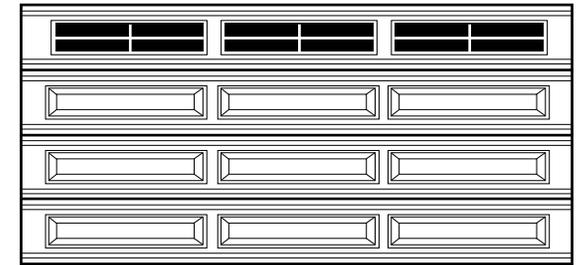
12'2" X 7' (3710 X 2130)



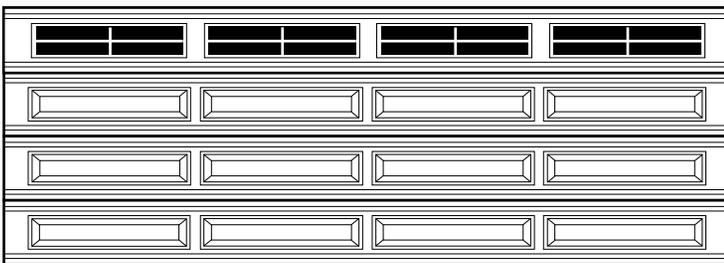
17'2" X 7' (5230 X 2130) (Stretched 16')



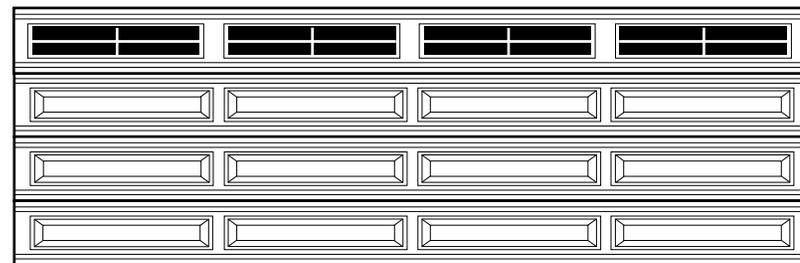
10'2" X 7' (3100 X 2130)



14'2" X 7' (4320 X 2130)

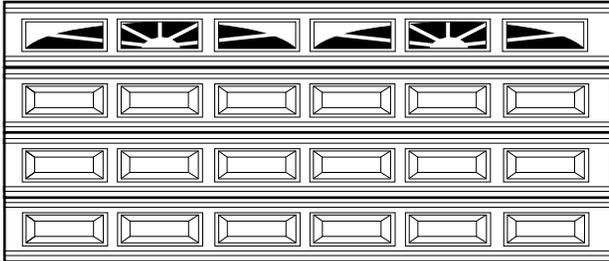


18'2" X 7' (5540 X 2130)

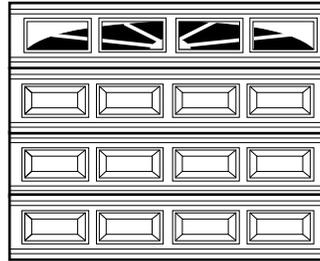


20'2" X 7' (6150 X 2130)

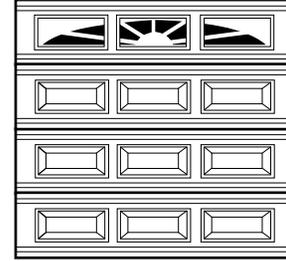
(SR) Sunrise Short Window Examples



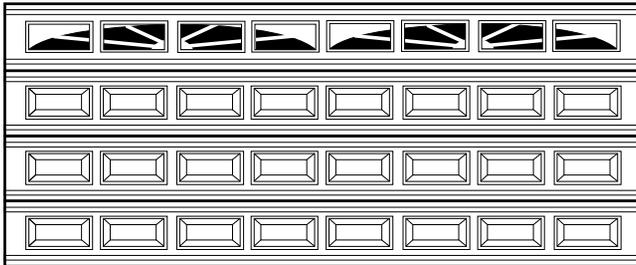
15'2" X 7' (4620 X 2130)



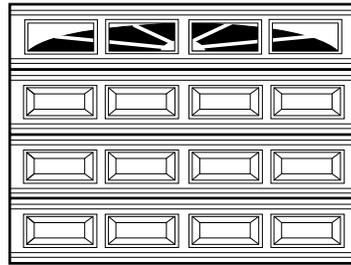
8'2" X 7' (2490 X 2130)



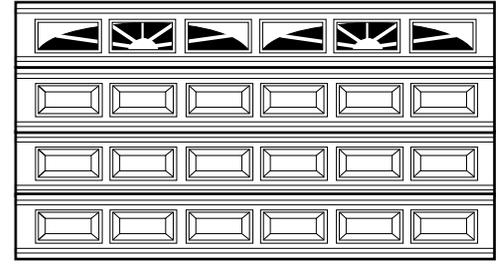
7'8" X 7' (2340 X 2130)



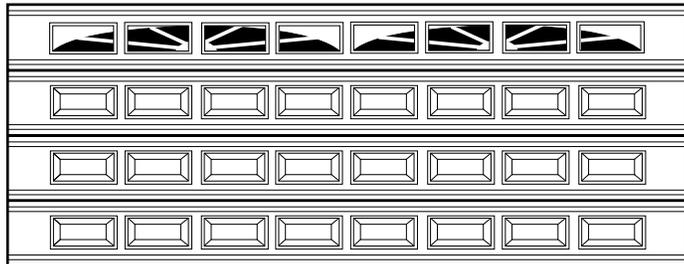
16'2" X 7' (4930 X 2130)



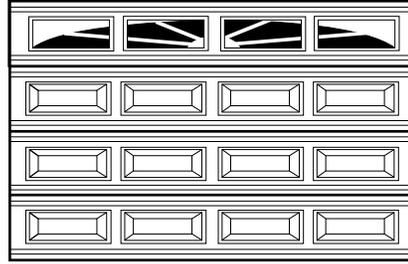
9'2" X 7' (2790 X 2130)



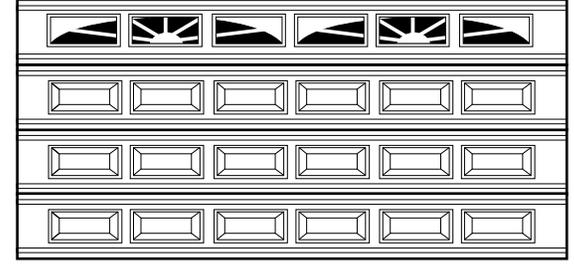
12'2" X 7' (3710 X 2130)



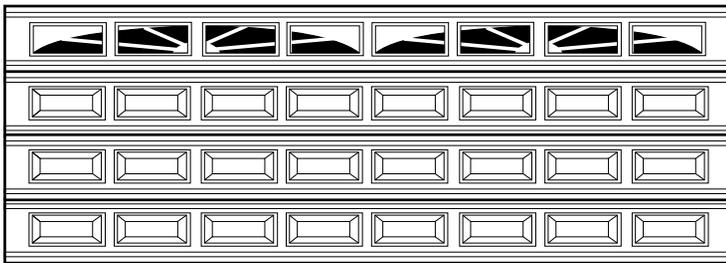
17'2" X 7' (5230 X 2130) (Stretched 16')



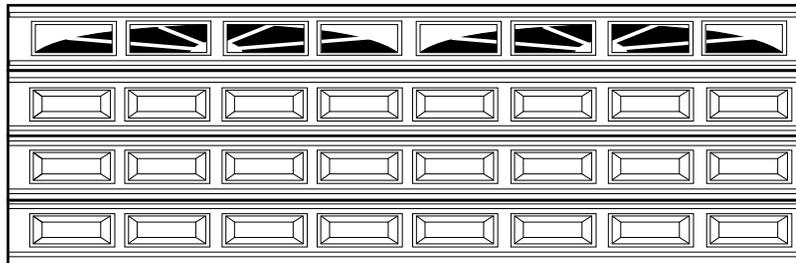
10'2" X 7' (3100 X 2130)



14'2" X 7' (4320 X 2130)

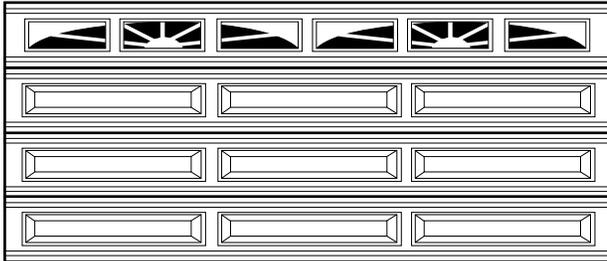


18'2" X 7' (5540 X 2130)

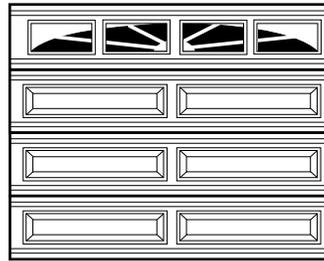


20'2" X 7' (6150 X 2130)

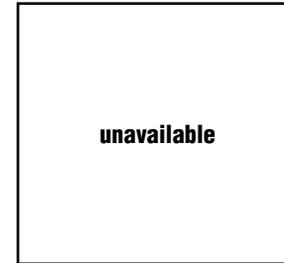
(SR) Sunrise Short Window Examples



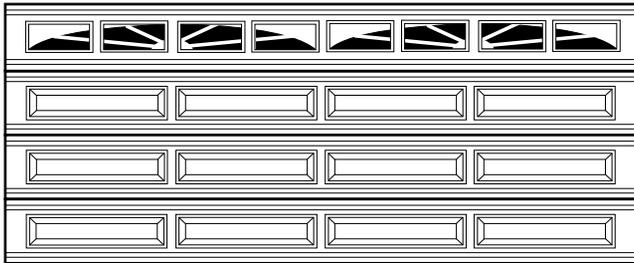
15'2" X 7' (4620 X 2130)



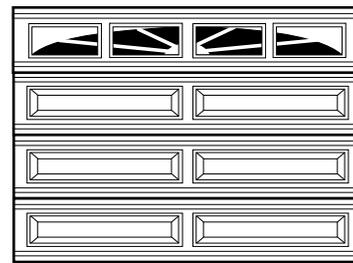
8'2" X 7' (2490 X 2130)



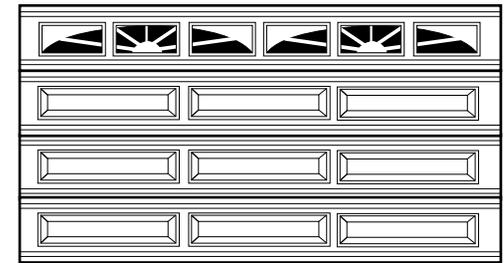
7'8" X 7' (2340 X 2130)



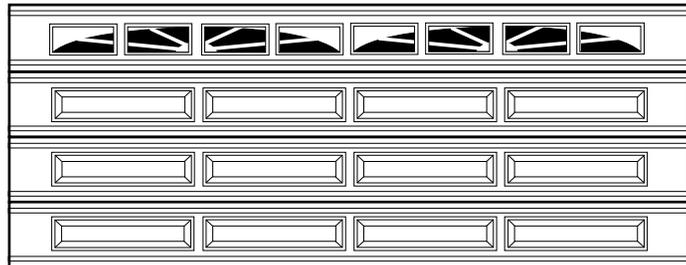
16'2" X 7' (4930 X 2130)



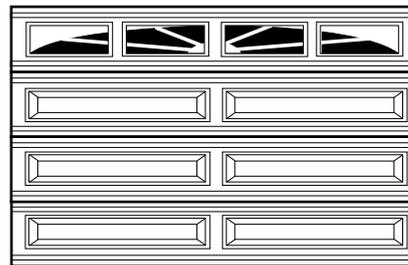
9'2" X 7' (2790 X 2130)



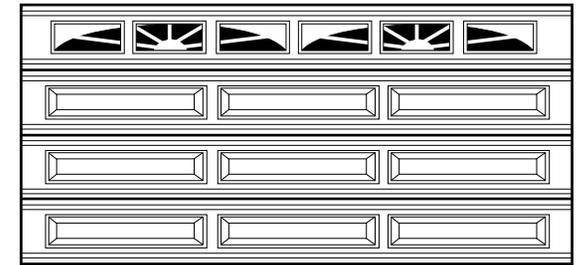
12'2" X 7' (3710 X 2130)



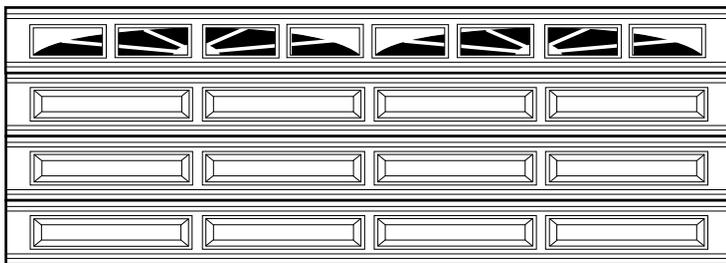
17'2" X 7' (5230 X 2130) (STRETCHED 16')



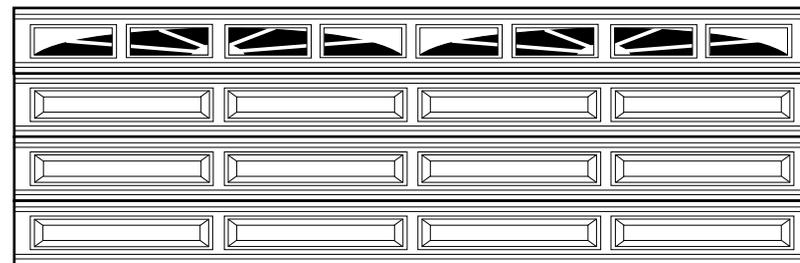
10'2" X 7' (3100 X 2130)



14'2" X 7' (4320 X 2130)



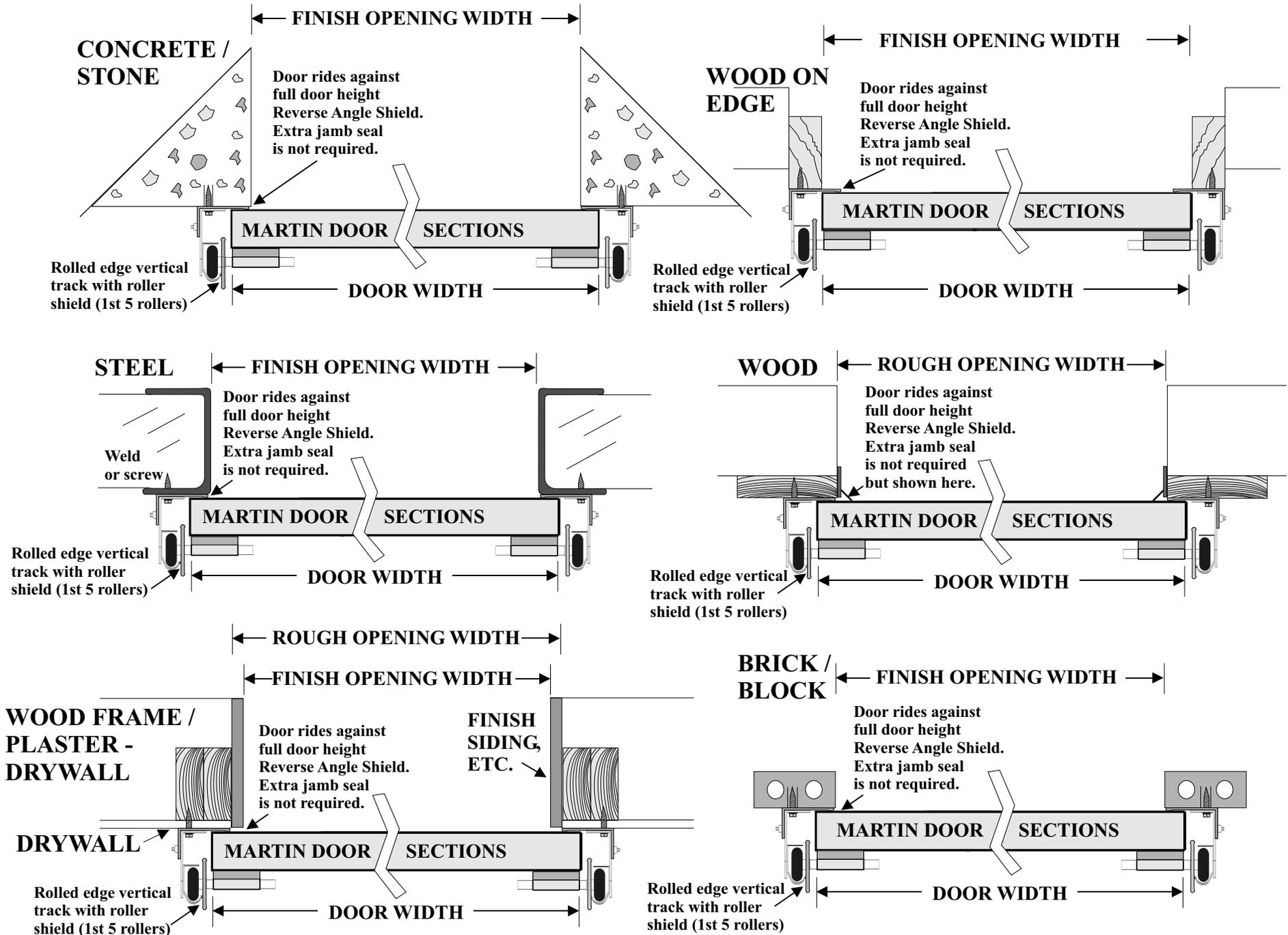
18'2" X 7' (5540 X 2130)



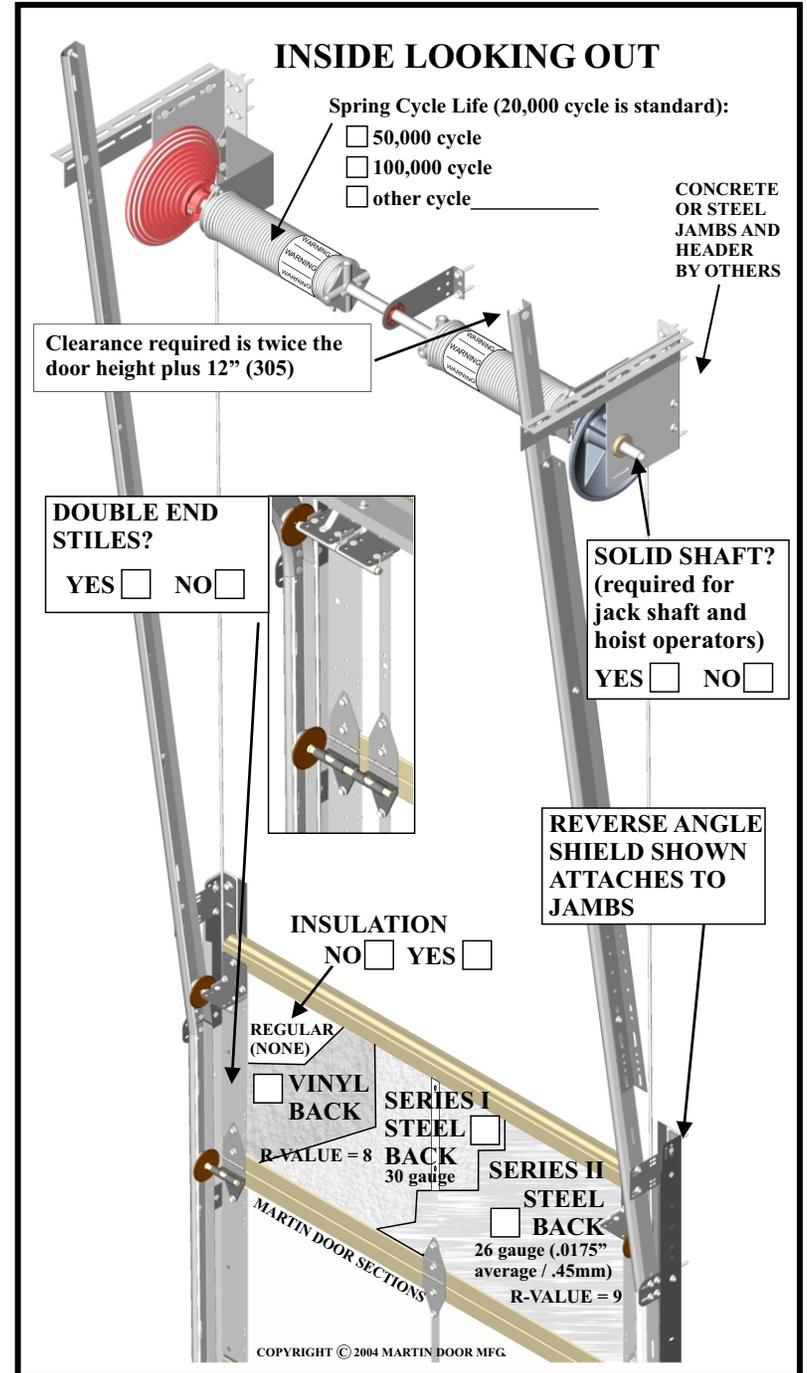
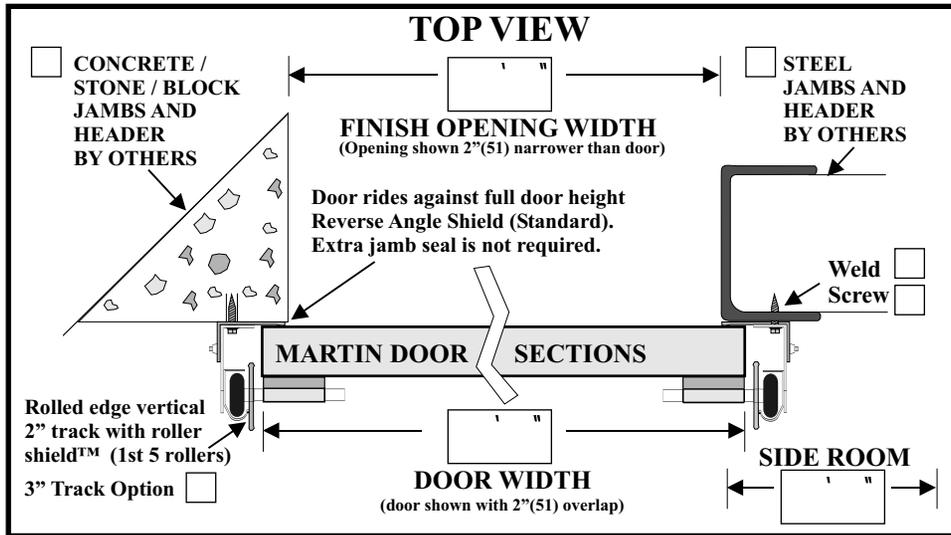
20'2" X 7' (6150 X 2130)

Top View - Various Jamb Mounts

Martin Doors are made 2"(51) wider than normal opening widths (Custom sizes available)



Drawings for Vertical Lift Track System



Martin Door Model: HT Ribbed WL Short Panel RA Long Panel

High Tensile Steel Door Section Gauge:
24 gauge (.0215" average / .55mm)
(Dent resistance ≥ 22 gauge mild steel)

Galvanizing:
All steel is galvanized
G-90 on track, hinges, stiles, etc.
G-60 Door sections - both sides
Torsion springs also galvanized

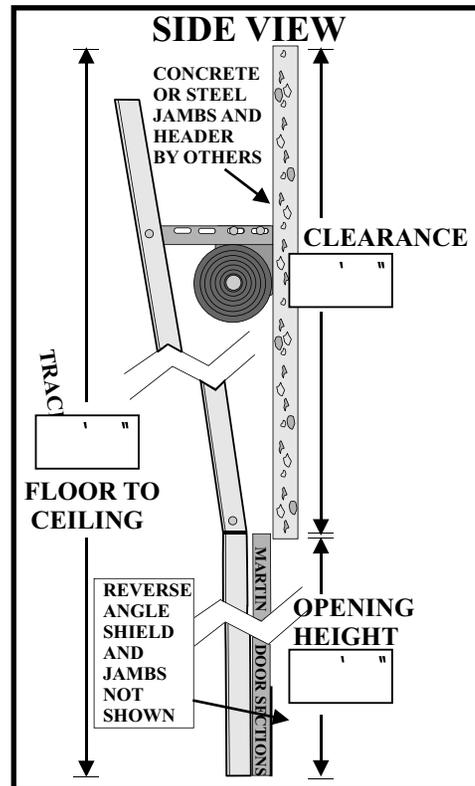
Painting:
2 thick coats baked-on enamel paint, both sides of door sections (4 color choices)

Spring Cycle Life (30,000 cycle is standard):

- 50,000 cycle
- 100,000 cycle
- other cycle _____

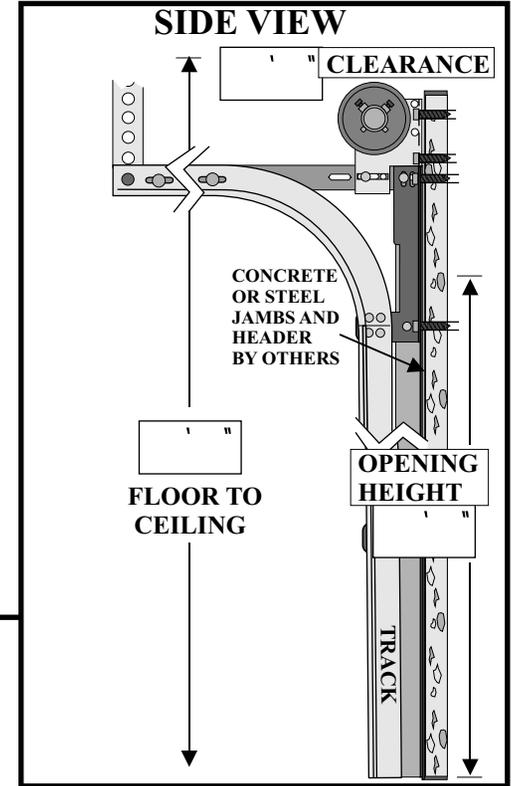
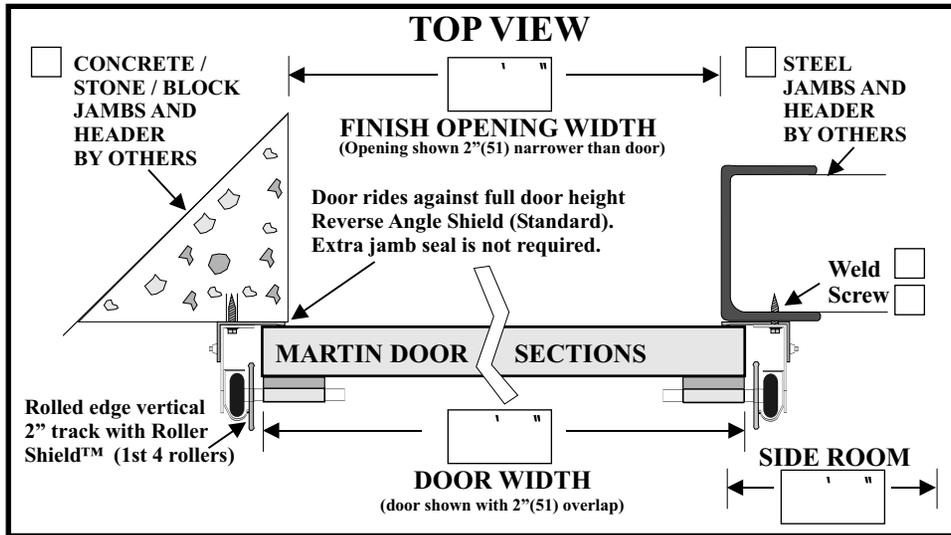
See Martin Door Spec. Sheet for other details.

MARTIN DOOR DEALER			
JOB NAME _____			
LOCATION _____			
Drawn by _____	Job # _____		
Checked _____	Page _____	of _____	
Order # _____	Date _____		



Drawings for Standard 12" Track System

(310mm)



Martin Door Model: HT WL RA
Ribbed Short Panel Long Panel

High Tensile Steel Door Section Gauge:
 24 gauge (.0215" average / .55mm)
 (Dent resistance ≥ 22 gauge mild steel)

Galvanizing:
 All steel is galvanized
 G-90 on track, hinges, stiles, etc.
 G-60 Door sections - both sides
 Torsion springs also galvanized

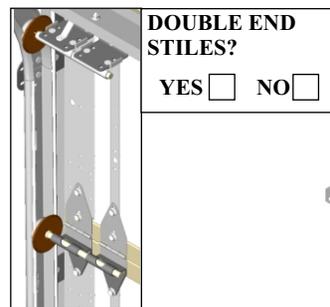
Painting:
 2 thick coats baked-on enamel paint, both sides of door sections (4 color choices)

Spring Cycle Life (30,000 cycle is standard):
 50,000 cycle
 100,000 cycle
 other cycle _____

See Martin Door Spec. Sheet for other details.

INSIDE LOOKING OUT

Spring Cycle Life (20,000 cycle is standard):
 50,000 cycle
 100,000 cycle
 other cycle _____



DOUBLE END STILES?
 YES NO

INSULATION
 NO YES

REGULAR (NONE)
 VINYL BACK
 R-VALUE = 8

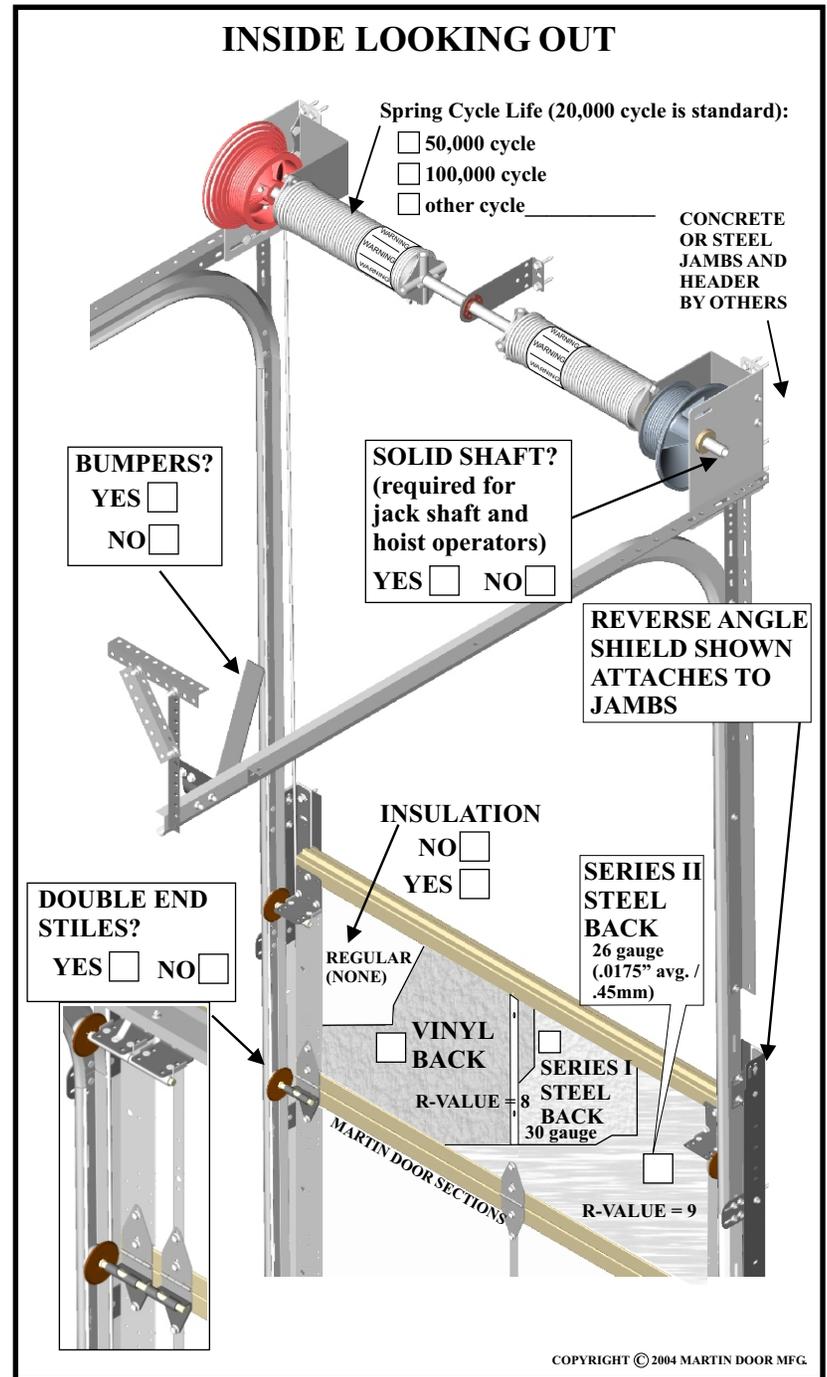
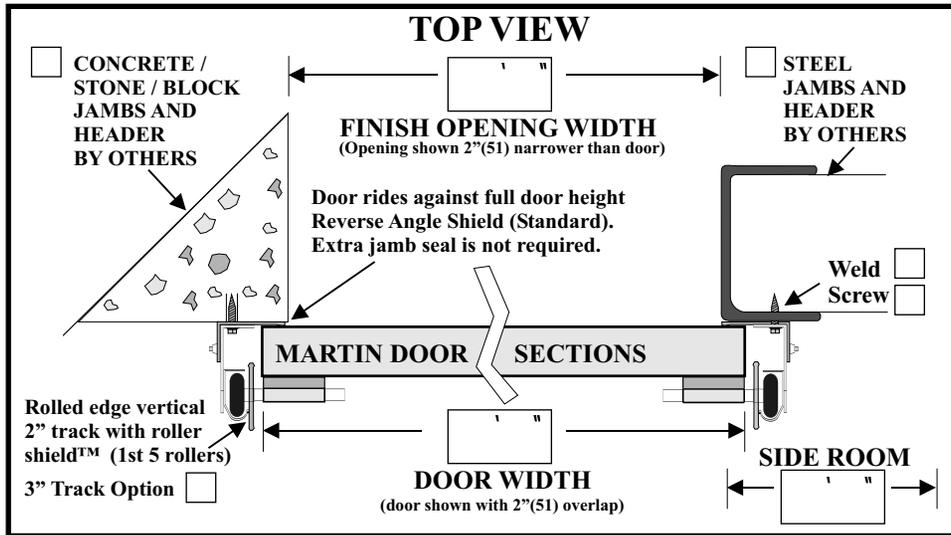
SERIES I STEEL BACK
 30 gauge
 SERIES II STEEL BACK
 26 gauge (.0175" average / .45mm)
 R-VALUE = 9

Only 15" (360) Clearance is required, including the electric operator. (17" (425) on larger 5" Cable Drum applications)

REVERSE ANGLE SHIELD SHOWN ATTACHES TO JAMBS

MARTIN DOOR DEALER		
JOB NAME _____		
LOCATION _____		
Drawn by _____	Job # _____	
Checked _____	Page _____ of _____	
Order # _____	Date _____	

Drawings for High Clearance / Hi-Lift Track System



Martin Door Model: HT Ribbed WL Short Panel RA Long Panel

High Tensile Steel Door Section Gauge:
24 gauge (.0215" average / .55mm)
(Dent resistance ≥ 22 gauge mild steel)

Galvanizing:
All steel is galvanized
G-90 on track, hinges, stiles, etc.
G-60 Door sections - both sides
Torsion springs also galvanized

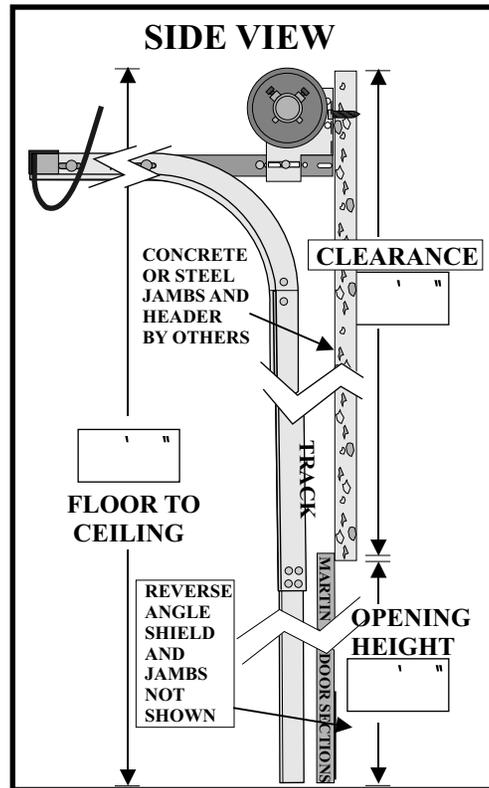
Painting:
2 thick coats baked-on enamel paint, both sides of door sections (4 color choices)

Spring Cycle Life (30,000 cycle is standard):

- 50,000 cycle
- 100,000 cycle
- other cycle

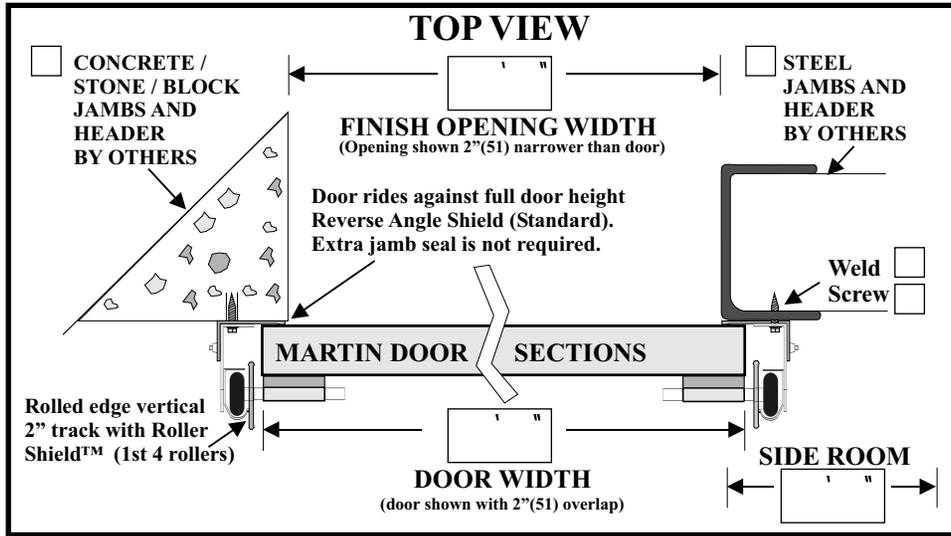
See Martin Door Spec. Sheet for other details.

MARTIN DOOR DEALER			
JOB NAME _____			
LOCATION _____			
Drawn by _____	Job # _____		
Checked _____	Page _____	of _____	
Order # _____	Date _____		

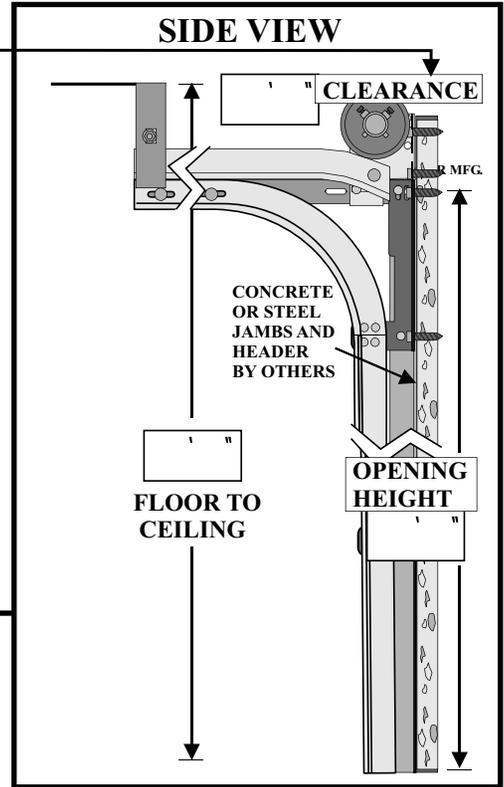


Drawings for Low Clearance Track System

Torsion Springs to the Front



Only 8" (184) Clearance is required, including the electric operator. (10" (250) on larger 5" Cable Drum applications)



Martin Door Model: HT WL RA
Ribbed Short Panel Long Panel

High Tensile Steel Door Section Gauge:
 24 gauge (.0215" average / .55mm)
 (Dent resistance ≥ 22 gauge mild steel)

Galvanizing:
 All steel is galvanized
 G-90 on track, hinges, stiles, etc.
 G-60 Door sections - both sides
 Torsion springs also galvanized

Painting:
 2 thick coats baked-on enamel paint, both sides of door sections (4 color choices)

Spring Cycle Life (30,000 cycle is standard):
 50,000 cycle
 100,000 cycle
 other cycle _____

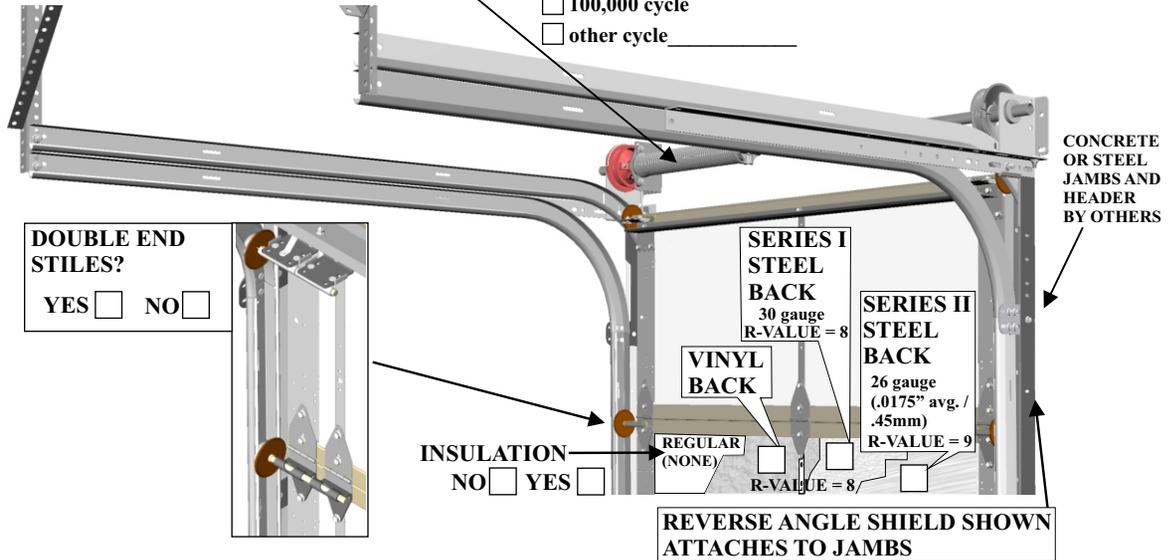
See Martin Door Spec. Sheet for other details.

INSIDE LOOKING OUT

Spring Cycle Life (20,000 cycle is standard):

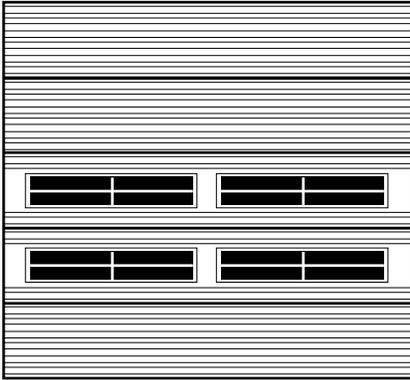
- 50,000 cycle
- 100,000 cycle
- other cycle _____

DOUBLE END STILES?
 YES NO

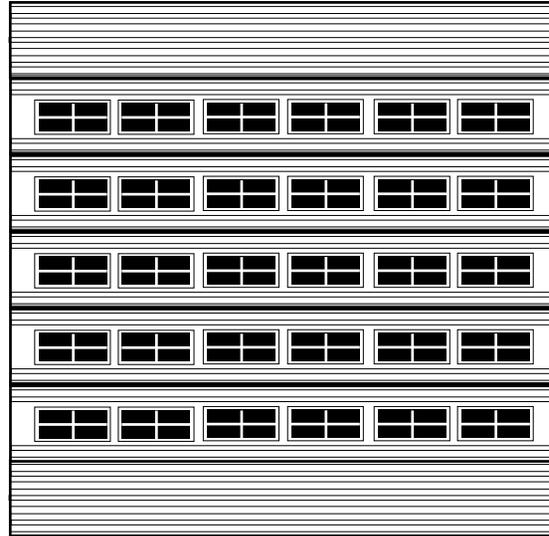


MARTIN DOOR DEALER			
JOB NAME _____			
LOCATION _____			
Drawn by _____	Job # _____		
Checked _____	Page _____ of _____		
Order # _____	Date _____		

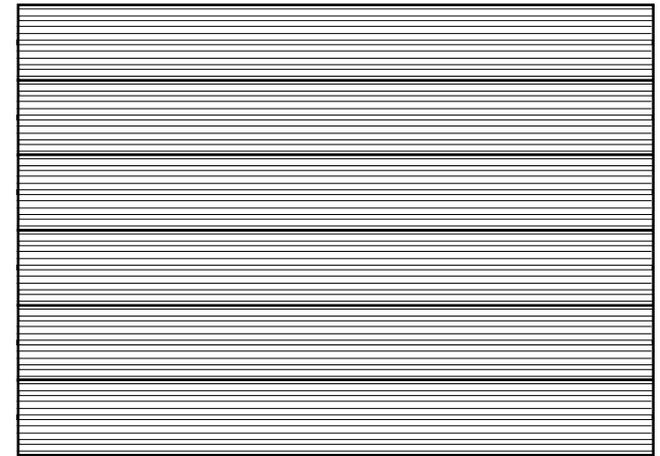
Commercial HT Examples



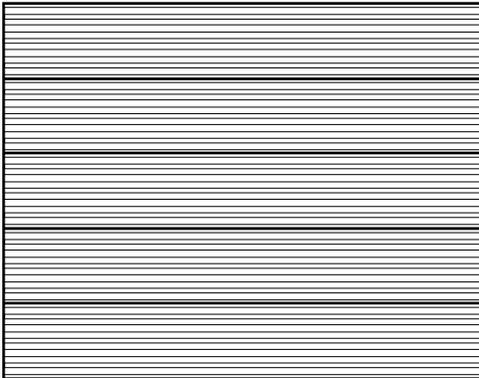
10'2" X 10' (3100 X 3050) (Virginia Ranch windows - 2 rows)



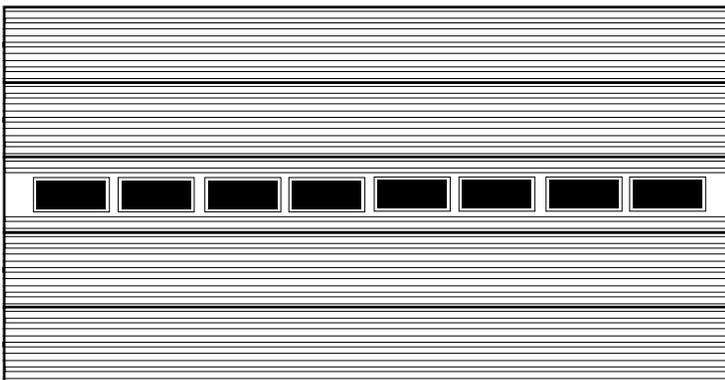
14'2" X 14' (4320 X 4270) (Virginia Windows - 5 rows)



16'2" X 12' (4930 X 3660)



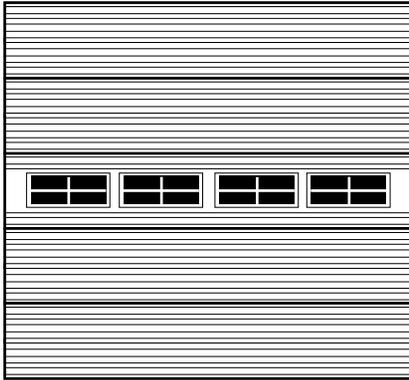
12'2" X 10' (3710 X 3050)



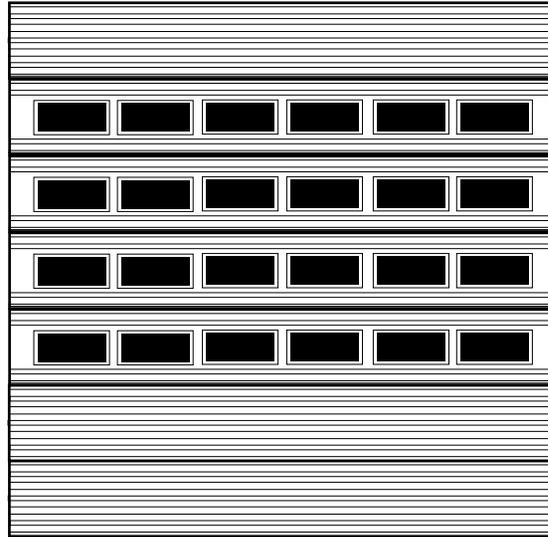
18'2" X 10' (5540 X 3050) (Designer Full View)



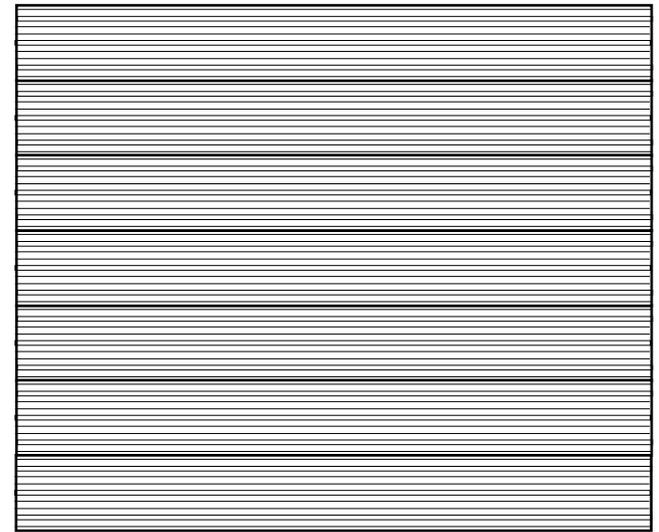
20'2" X 14' (6150 X 4720) (Aluminum Door with Commercial Aluminum Full View - 2 rows)



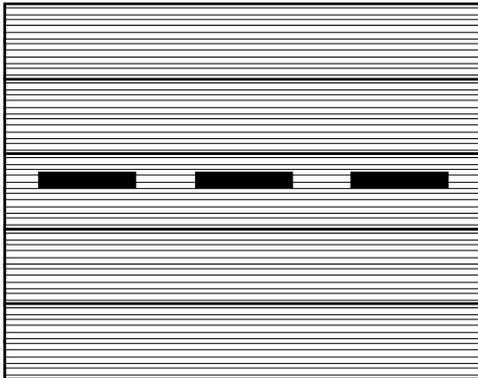
10'2" X 10' (Virginian Windows)
(3100 X 3049)



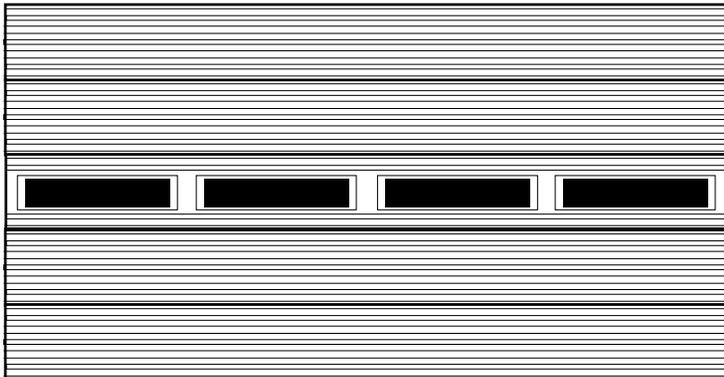
14'2" X 14' (Designer Full View Windows - 4 rows)
(4320 X 4269)



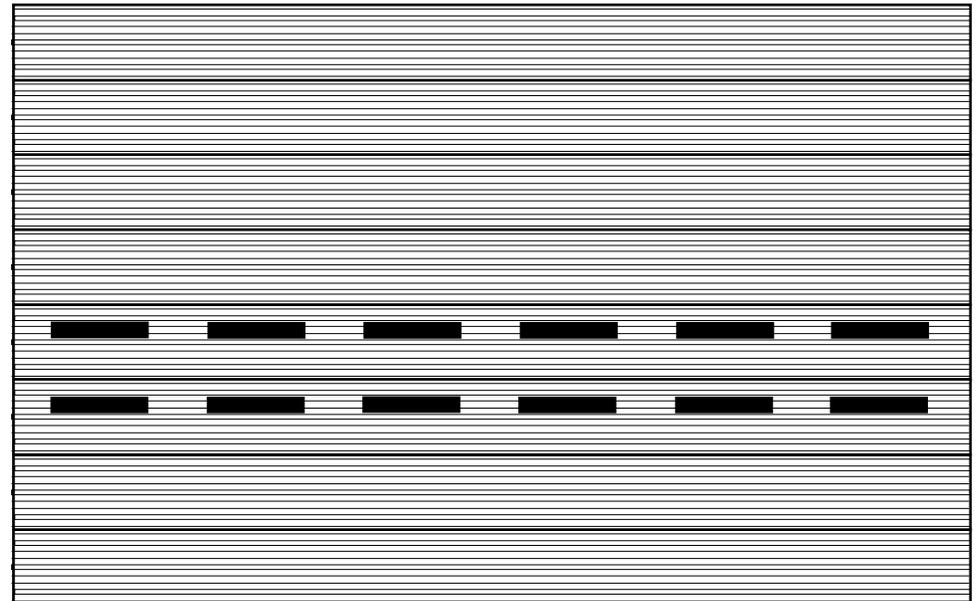
16'2" X 12'
(4930 X 4879)



12'2" X 10' (Security windows)
(3710 X 3659)

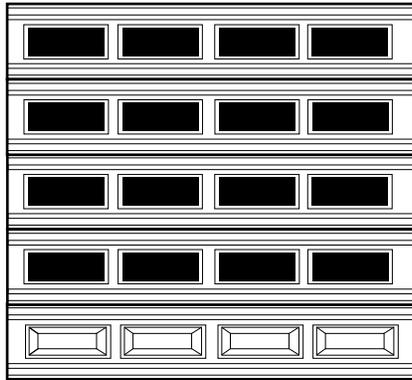


18'2" X 10' (Ranch designer full view windows)
(5540 X 5489)

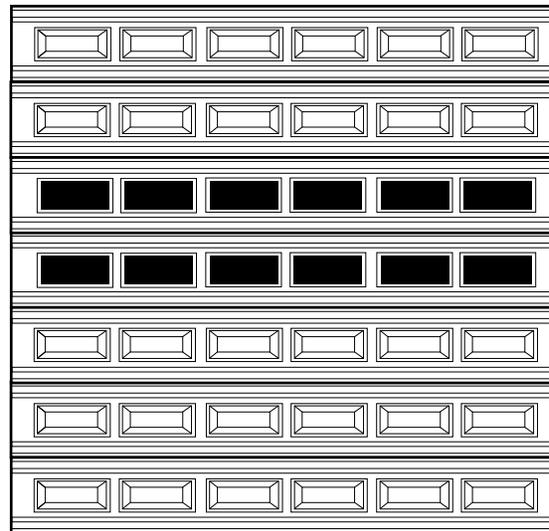


24'2" X 16' (Security Windows - 2 rows)
(7370 X 7319)

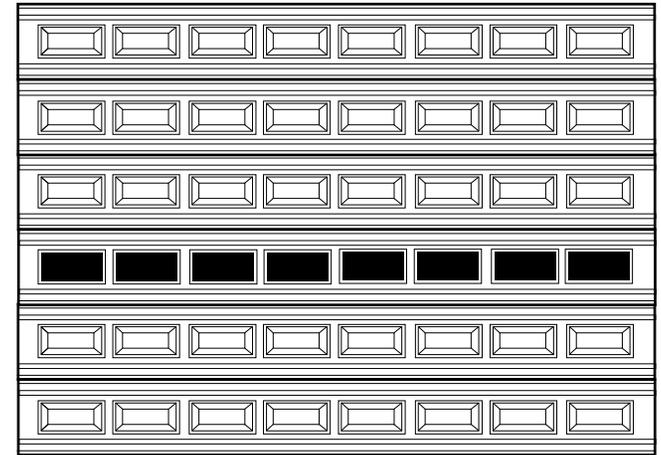
Commercial Woodline with Designer Full View Window Examples



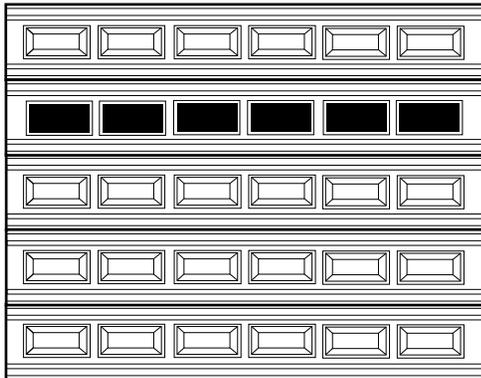
10'2" X 10' (3100 X 3050)



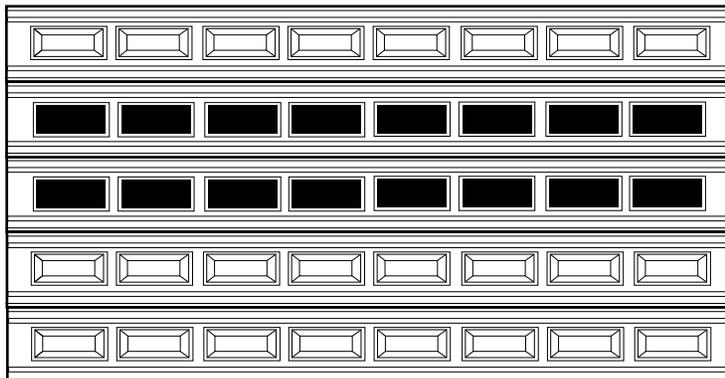
14'2" X 14' (4320 X 4270)



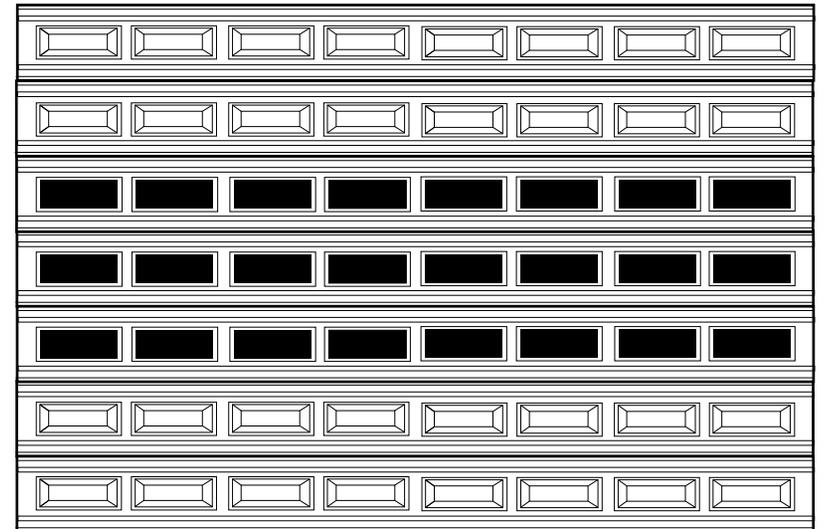
16'2" X 12' (4930 X 3660)



12'2" X 10' (3710 X 3050)

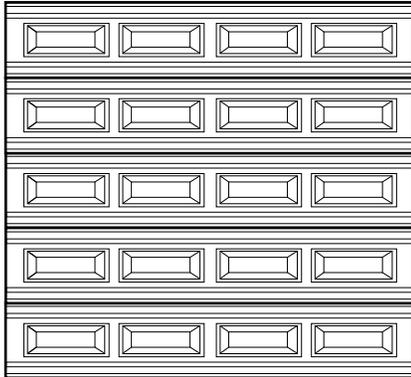


18'2" X 10' (5540 X 3050)

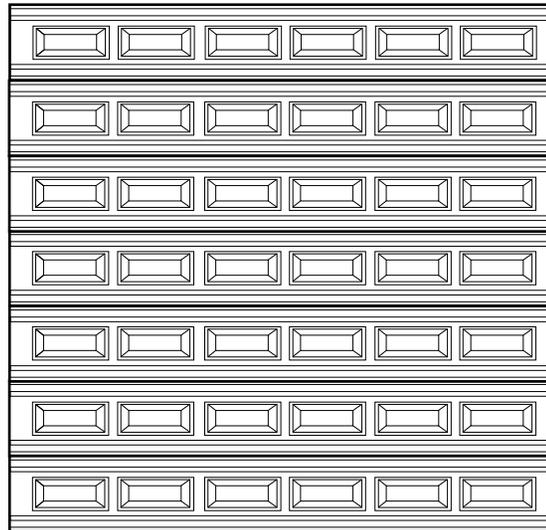


20'2" X 14' (6150 X 4720)

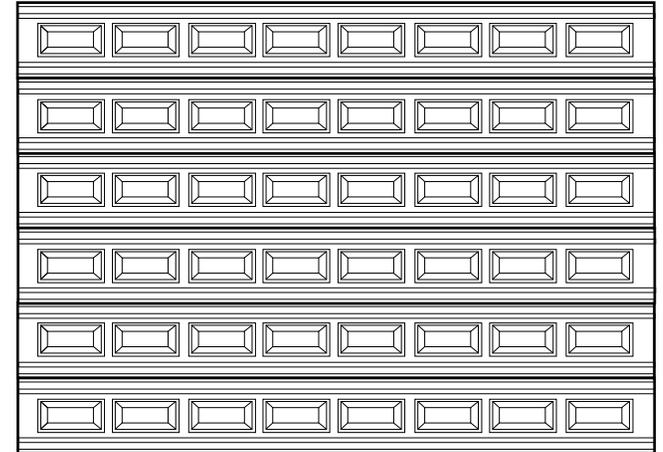
Commercial Woodline Examples



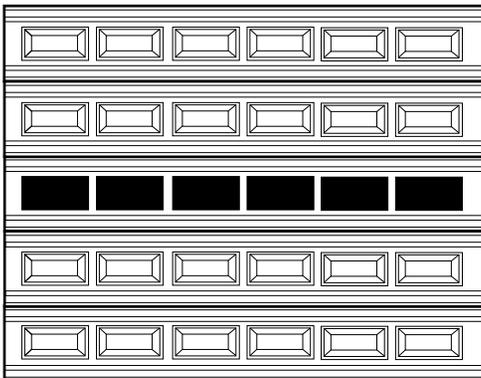
10'2" X 10' (3100 X 3050)



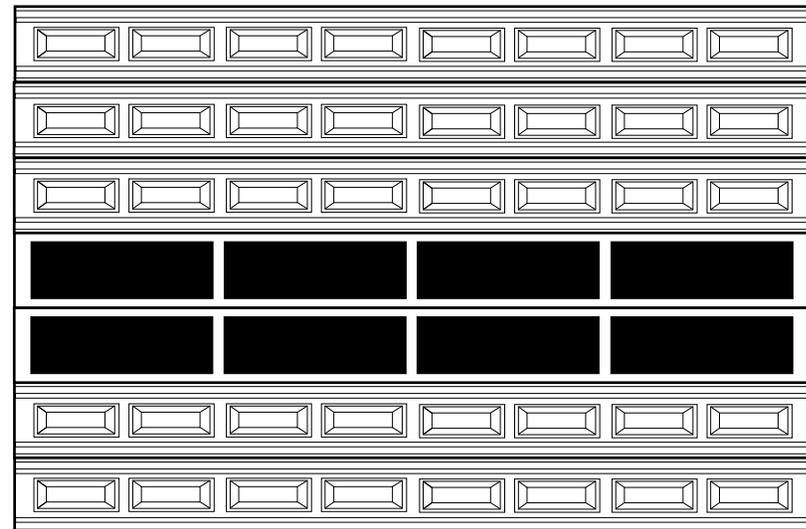
14'2" X 14' (4320 X 4270)



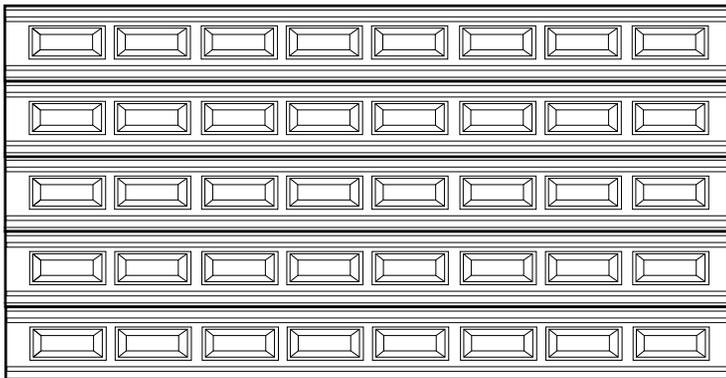
16'2" X 12' (4930 X 3660)



12'2" X 10' (3710 X 3050) (Designer Full View Windows)

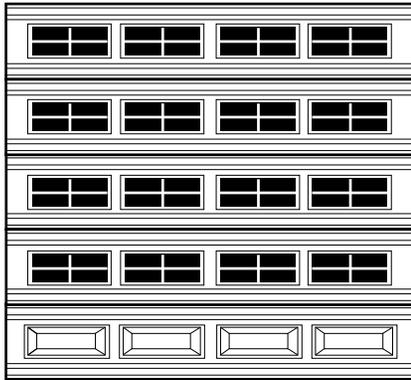


20'2" X 14' (6150 X 4720) (Commercial Aluminum Full View - 2 rows)

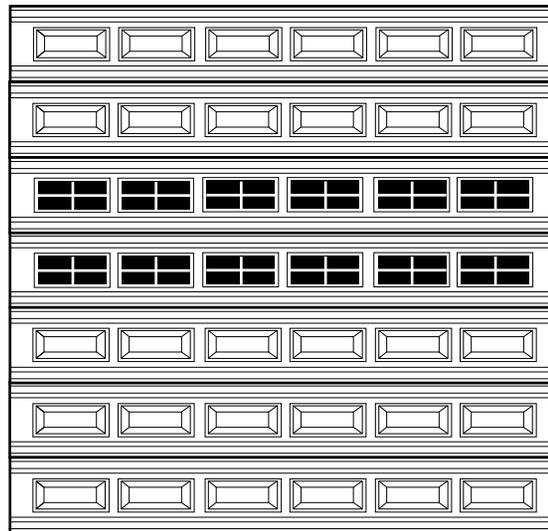


18'2" X 10' (5540 X 3050)

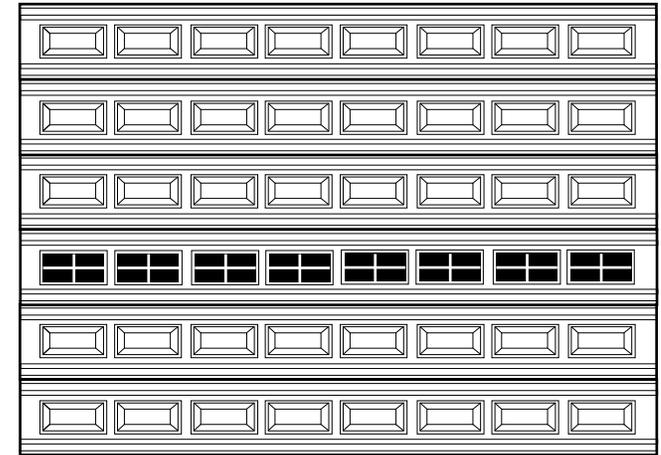
Commercial Woodline with Virginian Window Examples



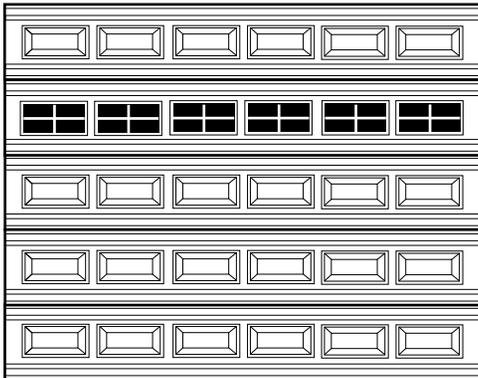
10'2" X 10' (3100 X 3050)



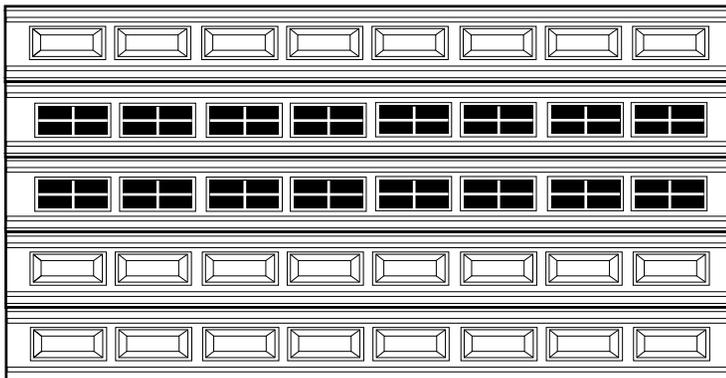
14'2" X 14' (4320 X 4270)



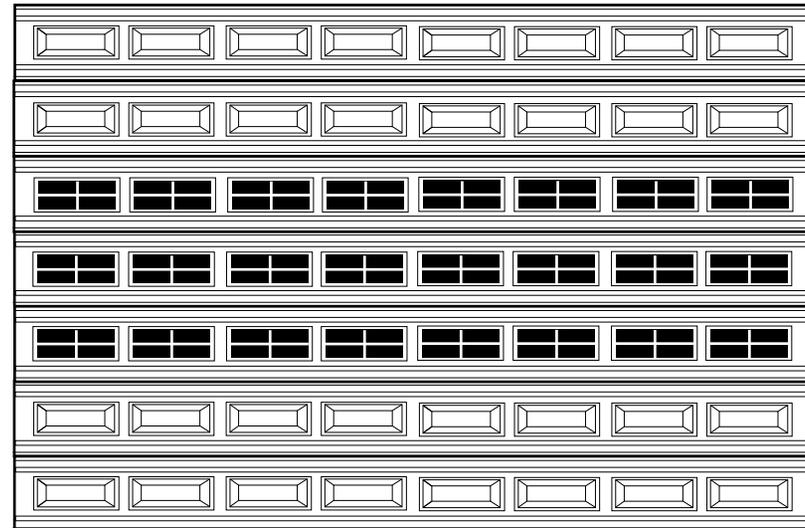
16'2" X 12' (4930 X 3660)



12'2" X 10' (3710 X 3050)



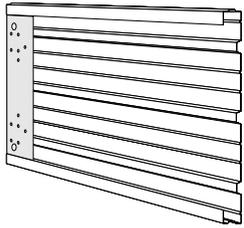
18'2" X 10' (5540 X 3050)



20'2" X 14' (6150 X 4720)

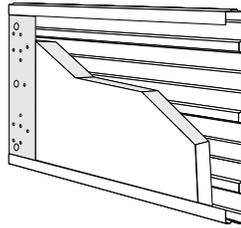
Other Drawings

Regular



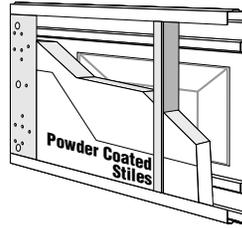
Cut-away view

Insulated



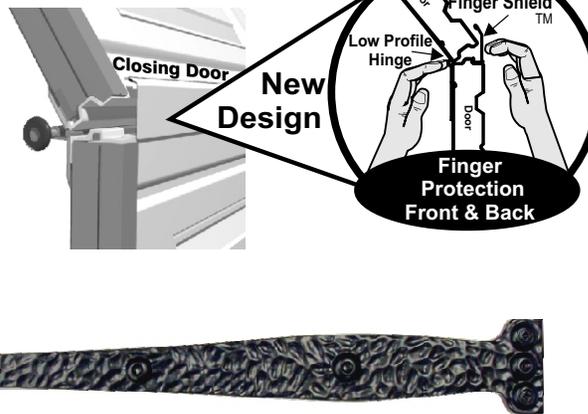
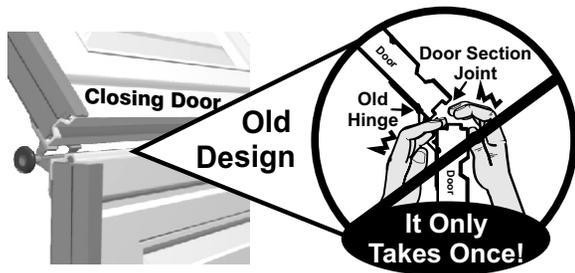
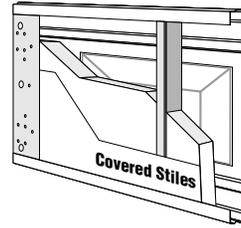
Cut-away view (insulated)

Series I

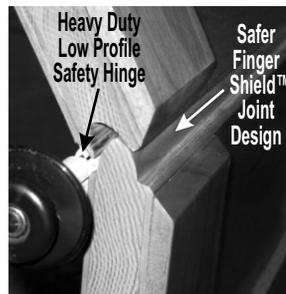
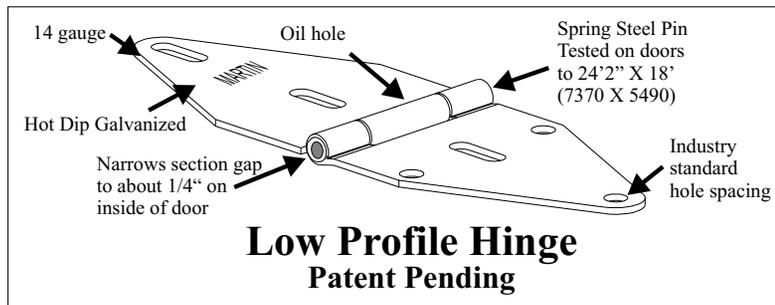


Cut-away view (insulated with steel back)

Series II

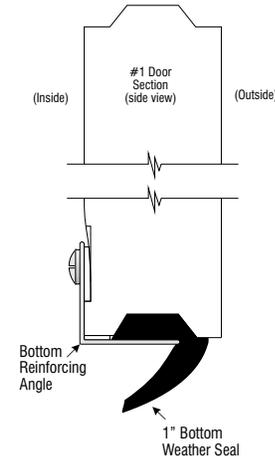


Antique Hinge and Handle



CH Carriage House Wood Door

Bottom of Door



Bottom of Door (uneven floor)

