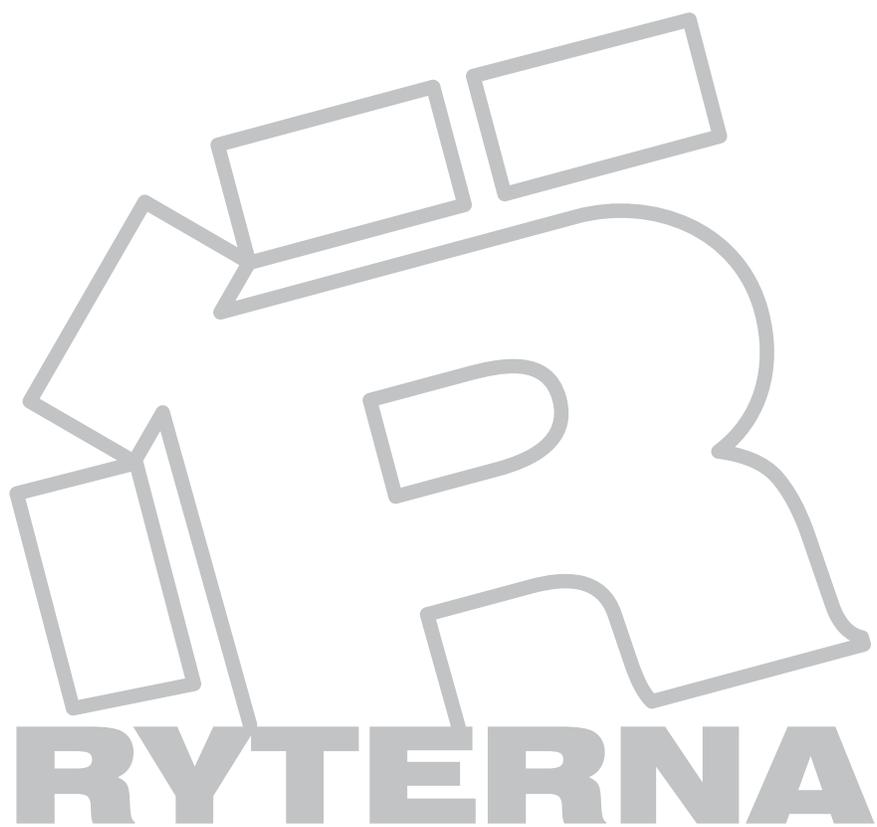




# TECHNICAL DATA

## INDUSTRIAL DOORS



<b>05</b>	TLP40 STD
<b>06</b>	TLP40 LHR - FM
<b>07</b>	TLP40 LHR - RM
<b>08</b>	TLP40 STD - RM
<b>09</b>	TLP40 HL - TM
<b>10</b>	TLP40 VL - TM
<b>11</b>	TLP40 HL - MM1 WITH LOWER TORSION SPRING SHAFT
<b>12</b>	TLP40 HL - MM2 WITH LOWER TORSION SPRING SHAFT
<b>13</b>	TLP40 VL - MM1 WITH LOWER TORSION SPRING SHAFT
<b>14</b>	TLP40 VL - MM2 WITH LOWER TORSION SPRING SHAFT
<b>15</b>	TLP40 STD - PR
<b>16</b>	TLP40 RM - PR
<b>17</b>	TLP40 FM - PR
<b>18</b>	TLP40 HL - TM PR
<b>19</b>	TLP80 THERMO PANELS / TRACKS
<b>20</b>	INDUSTRIAL SIDE SLIDING SECTIONAL DOORS ISSD
<b>21</b>	INDUSTRIAL SIDE FRAMED DOORS ISFD
<b>23</b>	PANEL TYPES
<b>25</b>	ALU-FRAMED PANEL TYPES
<b>28</b>	REINFORCEMENT PROFILES $\leq$ 314 15/16"
<b>29</b>	REINFORCEMENT PROFILES $>$ 314 15/16"
<b>31</b>	TYPES OF WINDOWS
<b>33</b>	WICKET DOORS
<b>37</b>	SIDE HINGED DOORS SH1
<b>40</b>	SIDE HINGED DOORS SH2
<b>42</b>	INDUSTRIAL SIDE HINGED DOORS ISH2
<b>45</b>	OPERATOR'S FIXING OPTIONS
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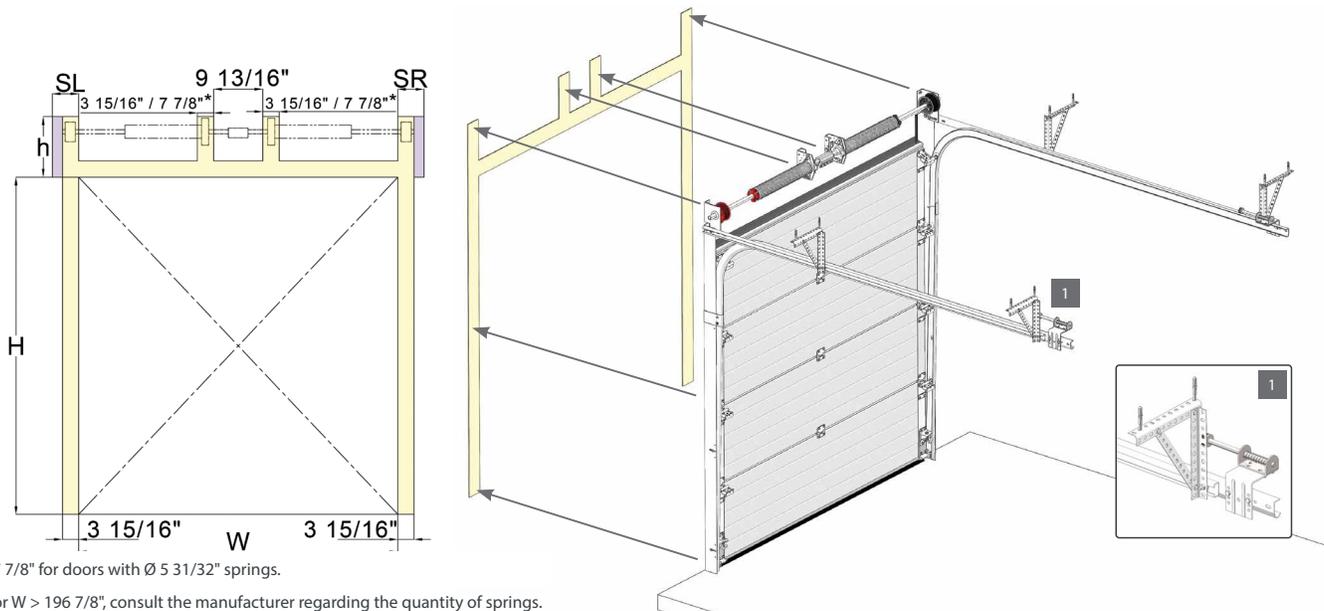
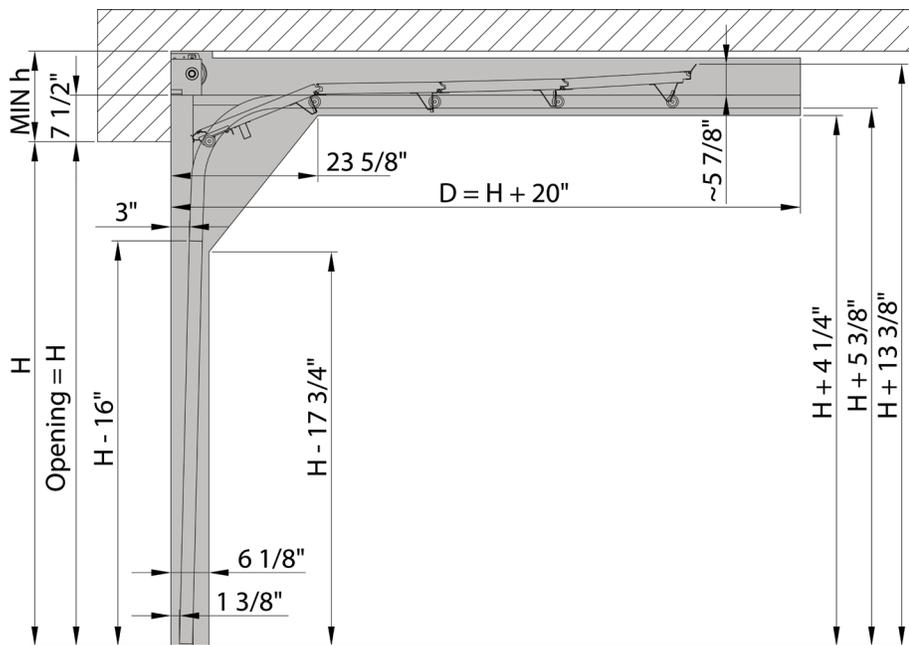
# TRACKS



Required sideroom	SL	SR
Manual operation	4 5/16"	4 5/16"
Electric motor on shaft	4 5/16"	9 13/16"-13 3/8"
Chain host	4 5/16"	9 7/16"-13 3/8"

Required headroom	h	D	Opening
$H \leq 180 \frac{11}{16}"$	14 9/16"	$H + 20 \frac{1}{16}"$	H
$180 \frac{3}{4}" < H \leq 196"$	16 15/16"	$H + 20 \frac{1}{16}"$	H
$196 \frac{1}{16}" < H \leq 236 \frac{1}{4}"$	19 7/8"	$H + 20 \frac{1}{16}"$	H
$H > 236 \frac{1}{4}"$ on request			

Number of required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side
Up to depth of 216 9/16"	4 suspensions per side
Above depth of 216 9/16"	5 suspensions per side



\*7 7/8" for doors with  $\varnothing 5 \frac{31}{32}"$  springs.

For  $W > 196 \frac{7}{8}"$ , consult the manufacturer regarding the quantity of springs.

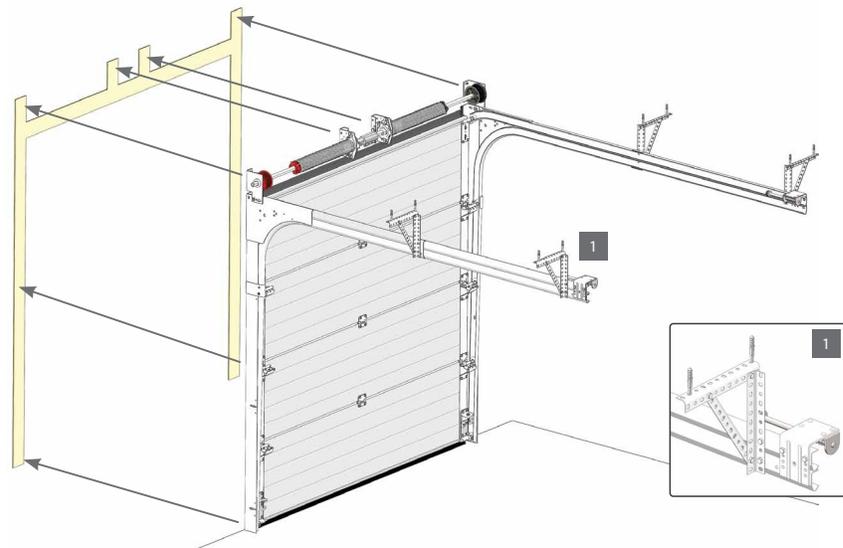
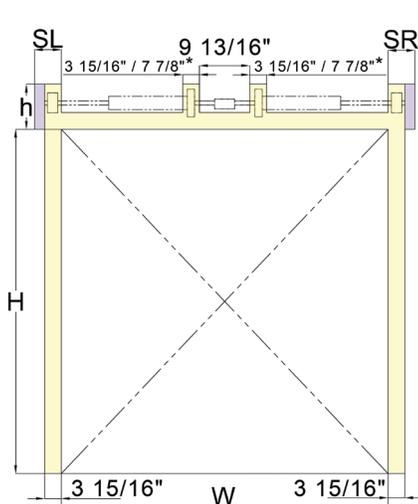
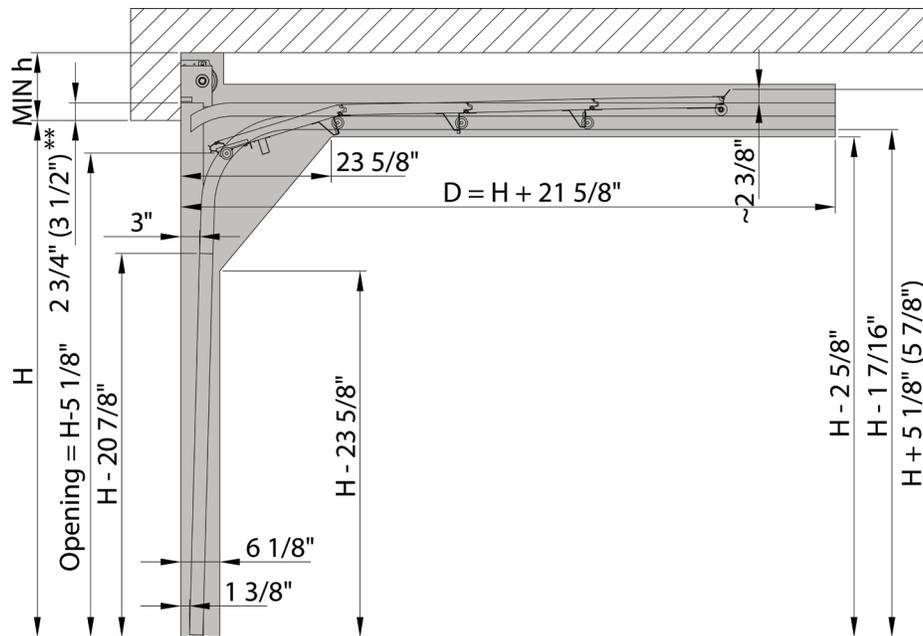
Required sideroom	SL	SR
Manual operation	4 5/16"	4 5/16"
Electric motor on shaft	4 5/16"	9 13/16"-13 3/8"
Chain host	4 5/16"	9 7/16"-13 3/8"

Required headroom	h	D	Opening
$H \leq 180 \frac{11}{16}"$	10 5/8"	$H + 20 \frac{1}{16}"$	$H - 5 \frac{1}{8}"$
$180 \frac{3}{4}" < H \leq 196"$	12 3/16"	$H + 20 \frac{1}{16}"$	$H - 5 \frac{1}{8}"$
$H > 196"$ on request			

Number of required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side
Up to depth of 216 9/16"	4 suspensions per side
Above depth of 216 9/16"	5 suspensions per side



If  $W > 236 \frac{1}{4}"$  cable brake protection is recommended together with cable tensioner.



\*7 7/8" for doors with  $\varnothing 5 \frac{31}{32}"$  springs.

For  $W > 196 \frac{7}{8}"$ , consult the manufacturer regarding the quantity of springs.

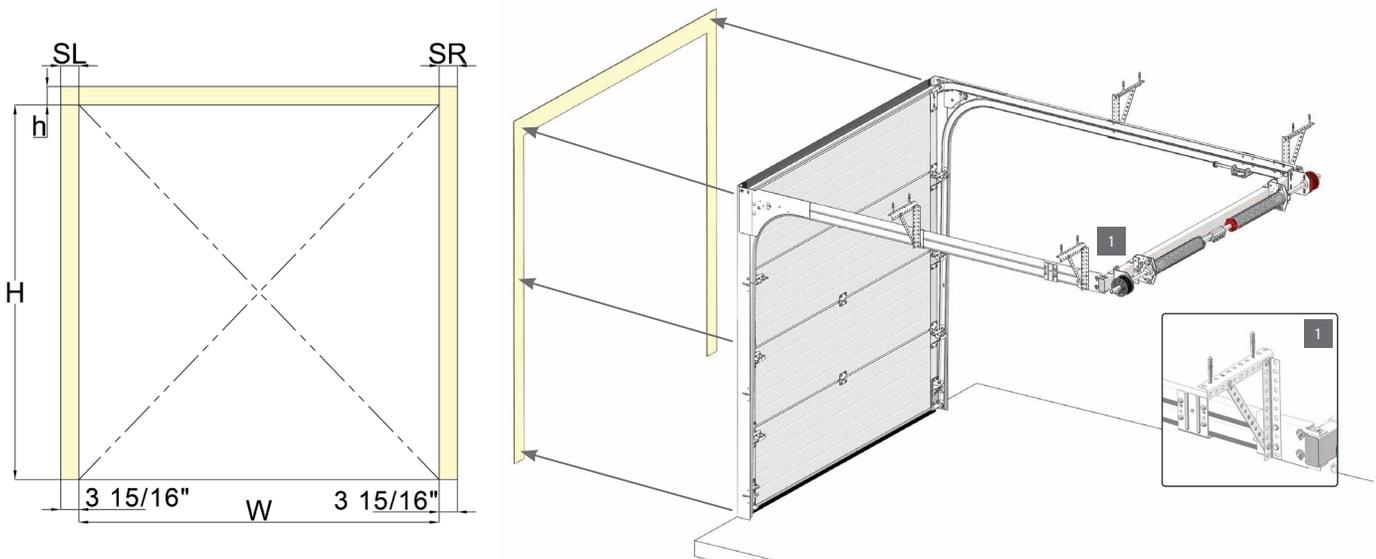
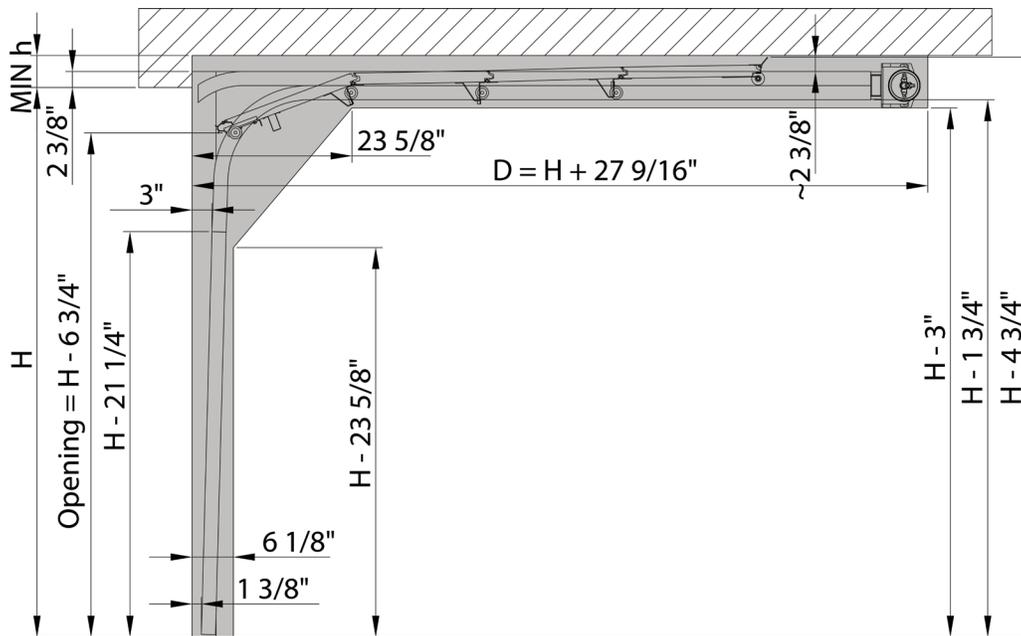
\*\*3 1/2" with side bearing bracket 40001 (3 3/8"x5/32").

Required sideroom	SL	SR
Manual operation	4 5/16"	4 5/16"
Electric motor on shaft	4 5/16"	9 13/16"-13 3/8"
Chain host	4 5/16"	9 7/16"-13 3/8"
With retractable motor	4 5/16"	4 5/16"

Number of required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side
Up to depth of 216 9/16"	4 suspensions per side
Above depth of 216 9/16"	5 suspensions per side

Required headroom	h	D	Opening
Manual operation	4 3/4"	H + 27 9/16"	H - 6 11/16"
With retractable motor	5 7/8"	H + 27 9/16"	H - 3 15/16"
Electric motor on shaft	4 3/4"	H + 27 9/16"	H - 6 11/16"

Max weight 993 lb  
 Max W = 236 1/4"  
 \*H + 43 5/16" with Sommer operator



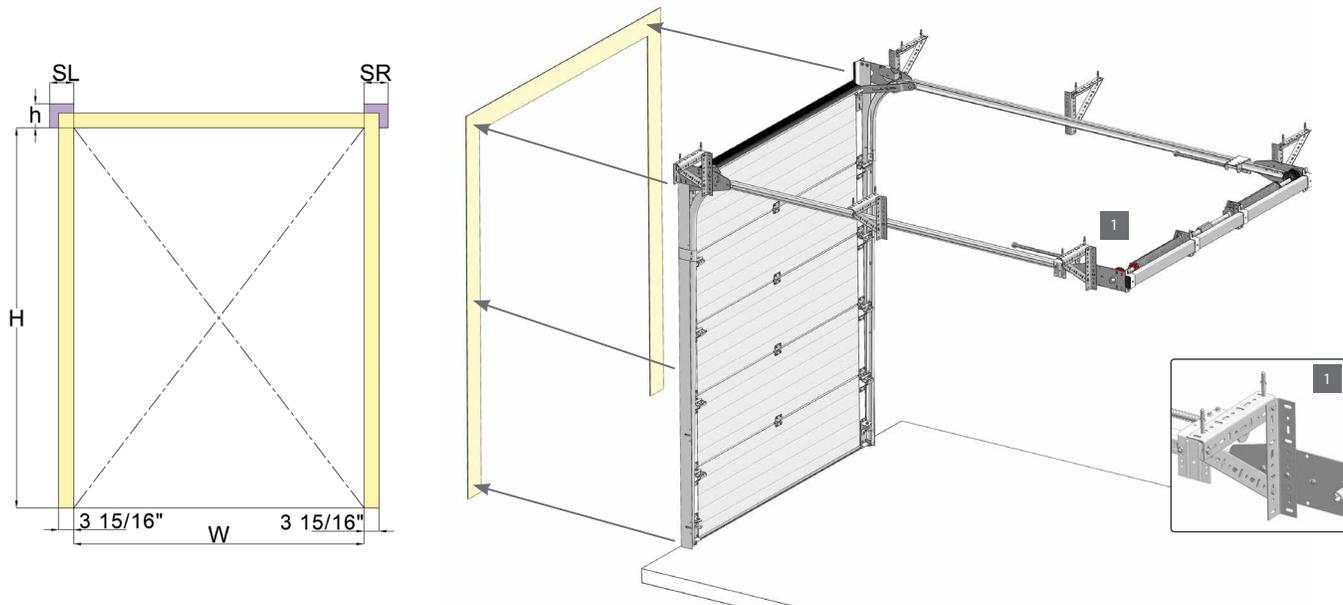
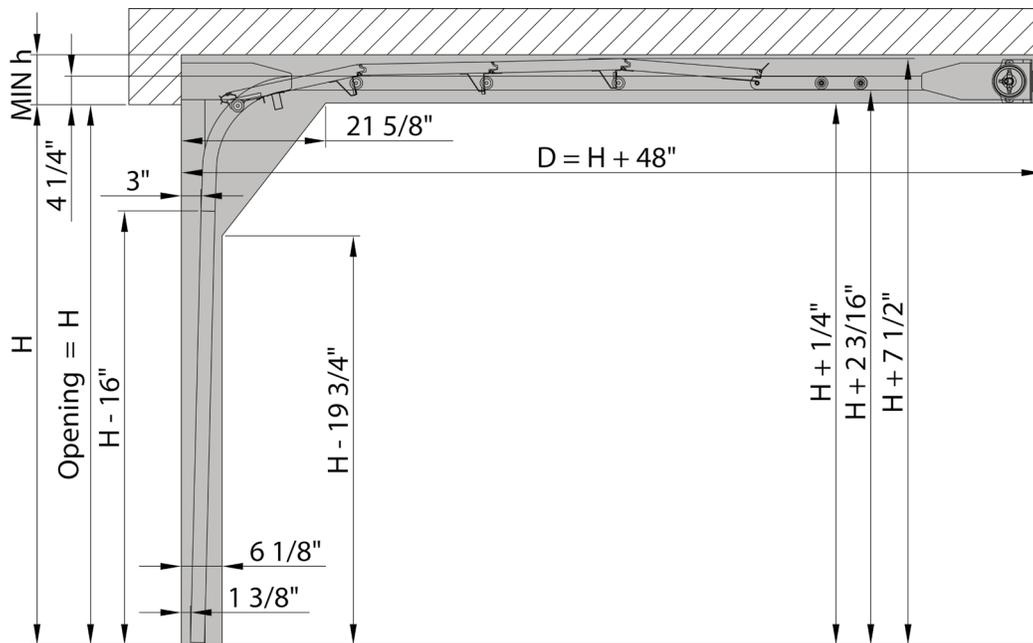
Required sideroom	SL	SR
Manual operation	5 1/8"	5 1/8"
Electric motor on shaft	5 1/8"	9 13/16"-13 3/8"
Chain host	5 1/8"	9 7/16"-13 3/8"

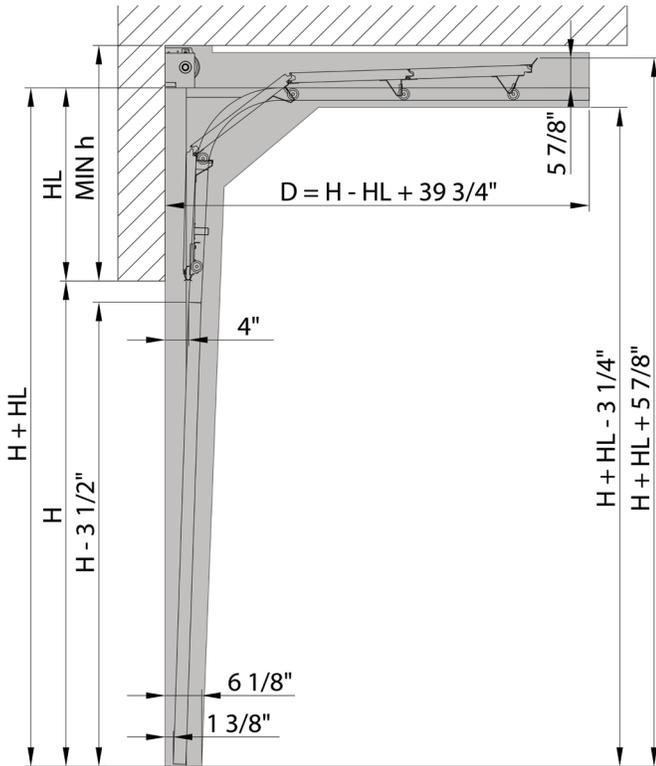
Required headroom	h	D	Opening
Manual operation	7 1/2"	H + 48 1/16"	H*
Electric motor on shaft	7 1/2"	H + 48 1/16"	H*
With wicket door	7 7/8"	H + 48 1/16"	H*
With retractable motor	9 1/4"	H + 48 1/16"	H*

Number of required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side
Up to depth of 216 9/16"	4 suspensions per side



Max W = 236 1/4"  
 Max weight 992 lb  
 \*For doors wider than 177 3/16" or with wicket door  
 daylight opening will be H - 1 9/16".





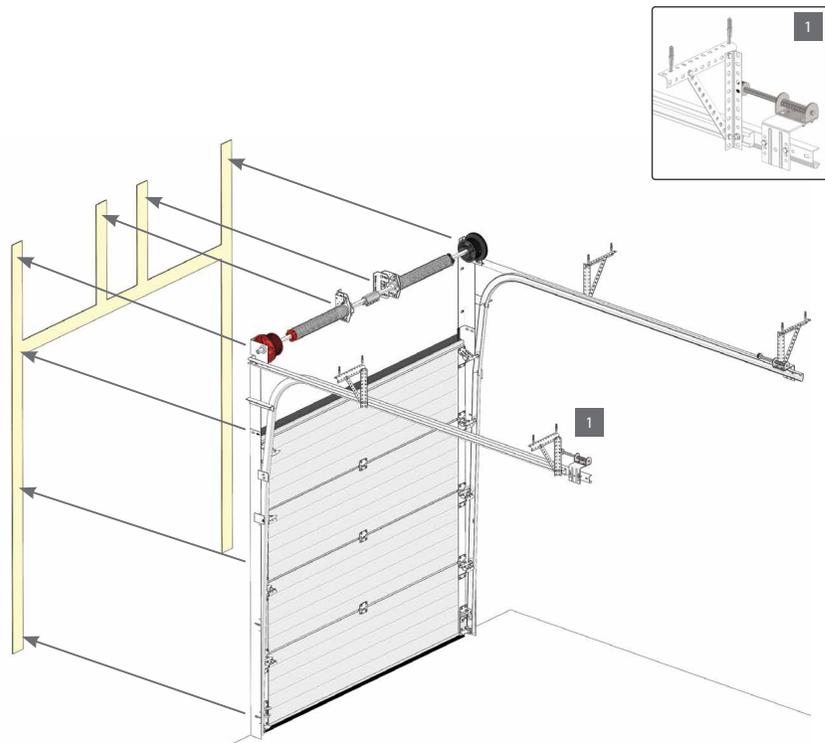
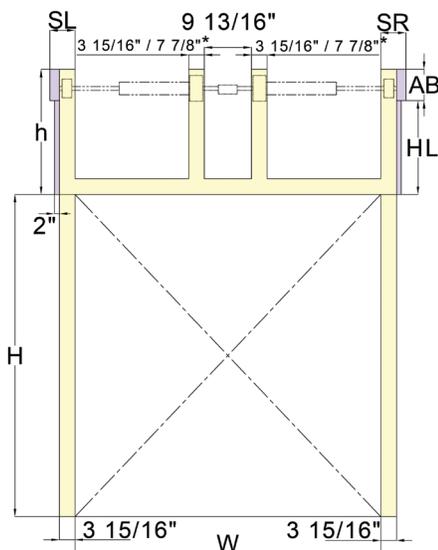
Required sideroom	SL	SR
Manual operation	5 1/8"	5 1/8"
Electric motor on shaft	5 1/8"	9 13/16"-13 3/8"
Chain host	5 1/8"	9 7/16"-13 3/8"

Number or required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side
Up to depth of 216 9/16"	4 suspensions per side
Above depth of 216 9/16"	5 suspensions per side

Required headroom	$h = \min 27 \frac{9}{16}" (H \leq 177 \frac{3}{16}"), \max 177 \frac{3}{16}"$
	$h = \min 31 \frac{1}{2}" (H \geq 177 \frac{3}{16}')$
Opening	H
Installation depth	$D = H - HL + 39 \frac{3}{4}"$

Max HL = 165 3/8"

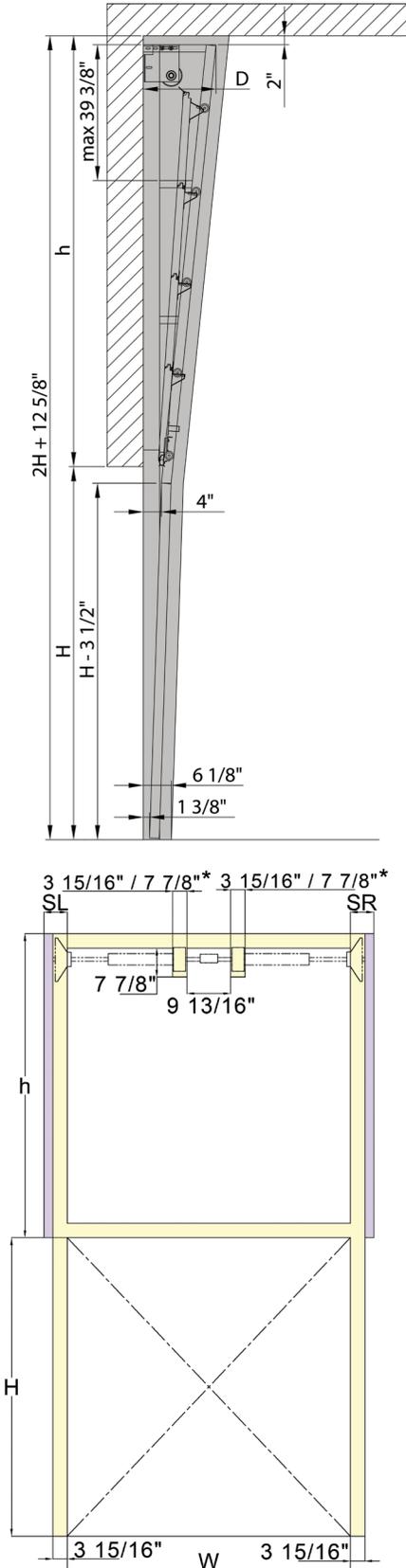
Height & HL correlation		
$H \leq 177 \frac{3}{16}"$	$HL \leq 53 \frac{15}{16}"$	AB = 7 7/8"
$177 \frac{3}{16}" < H \leq 236 \frac{1}{4}"$	$HL \leq 165 \frac{3}{8}"$	AB = 11 13/16"
$H > 236 \frac{1}{4}"$ on request		



\*7 7/8" for doors with  $\varnothing 5 \frac{31}{32}"$  springs.

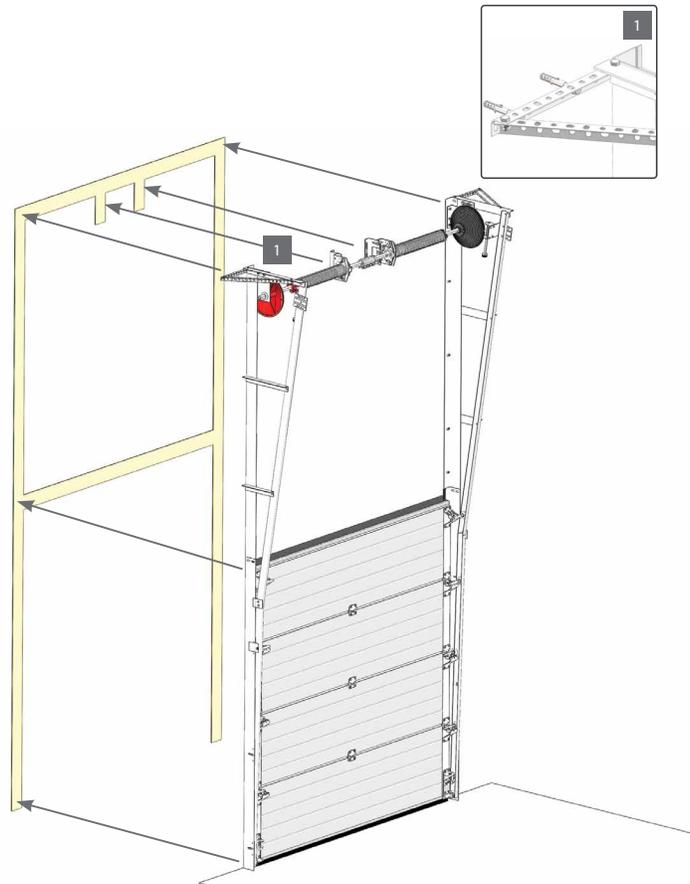
For  $W > 196 \frac{7}{8}"$ , consult the manufacturer regarding the quantity of springs.

All dimensions are given in millimeters (mm).



Required sideroom	SL	SR
Manual operation	5 1/8"	5 1/8"
Electric motor on shaft	5 1/8"	9 13/16"-13 3/8"
Chain host	5 1/8"	9 7/16"-13 3/8"

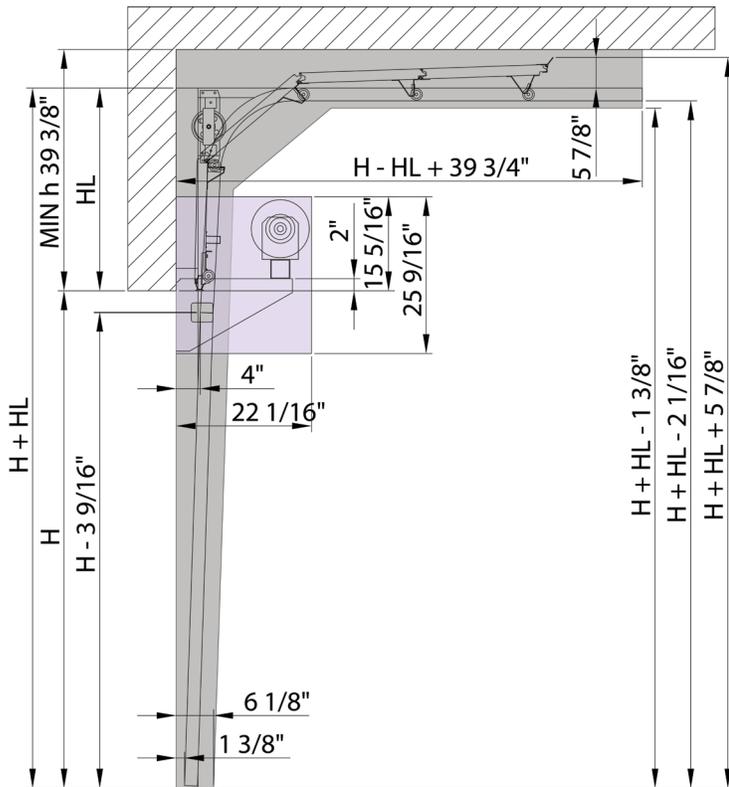
Required headroom	$h = H + 12 \frac{5}{8}"$
Opening	H
Installation depth	$D = 15 \frac{3}{4}"$ , $H \leq 129 \frac{15}{16}"$ $D = 17 \frac{11}{16}"$ , $129 \frac{15}{16}" < H \leq 236 \frac{1}{4}"$ , max weight 1103 lb $D = 21 \frac{5}{8}"$ , $129 \frac{15}{16}" < H \leq 236 \frac{1}{4}"$ , max weight 1654 lb $H > 236 \frac{1}{4}"$ on request



\*7 7/8" for doors with  $\varnothing 5 \frac{31}{32}"$  springs.

For  $W > 196 \frac{7}{8}"$ , consult the manufacturer regarding the quantity of springs.

# TLP40 HL - MM1 with lower torsion spring shaft



Required sideroom	SL	SR
Manual operation	9 7/16"	9 7/16"
Electric motor on shaft	9 13/16"	13 13/16"-17 11/16"
Chain host	9 7/16"	13 13/16"-17 11/16"

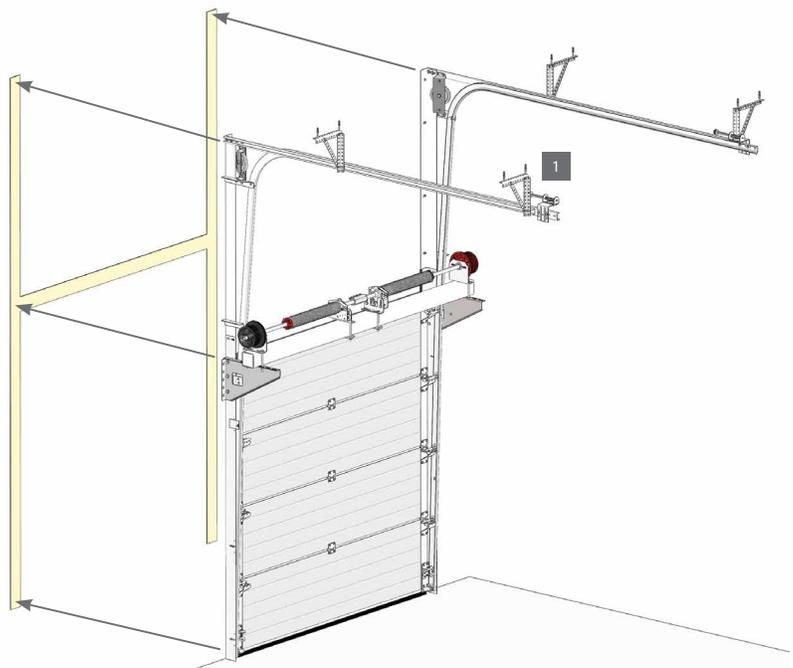
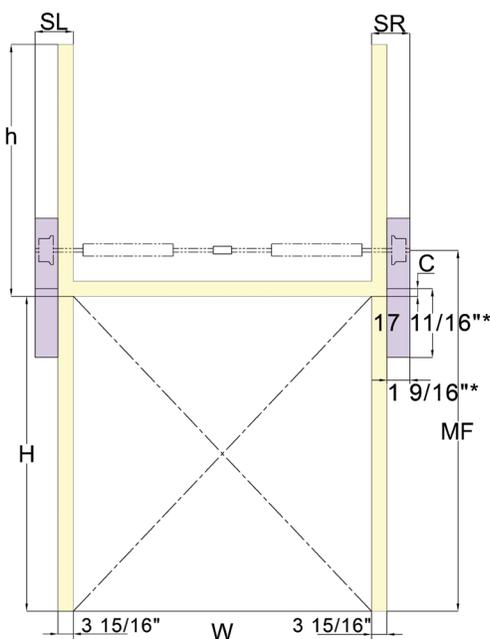
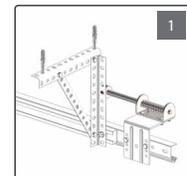
Number of required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side

	C	MF
W ≤ 137 13/16", max weight 441 lb	2"	H + (9 1/2" b/w 11 1/8")**

Required headroom	h = min 39 3/8", max 171 5/8"
Opening	H
Installation depth	D = H - hl + 39 3/4"



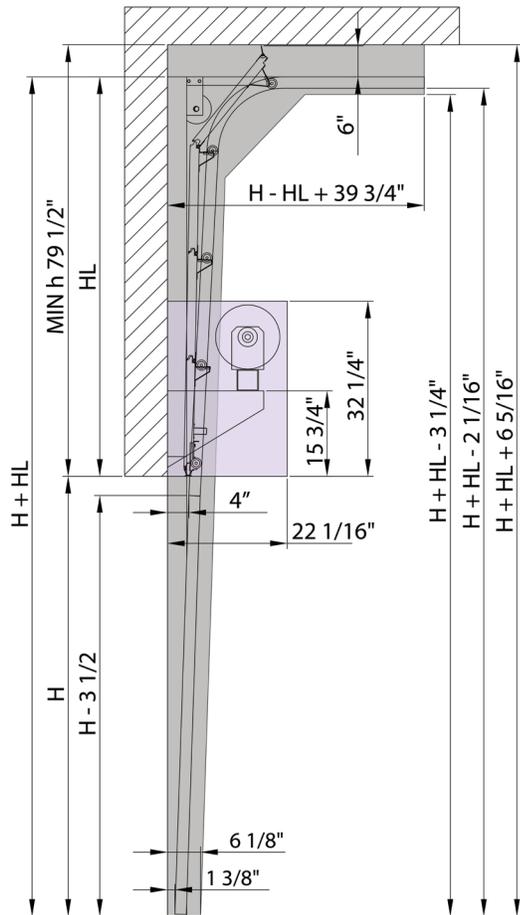
It's not able to use cable failure safety device.  
For wicket door with anti-panic lock consult the manufacturer.



\*For fixing the triangular console.

\*\*Depends on which springs (Ø) and which shaft bracket.

All dimensions are given in millimeters (mm).



Required sideroom	SL	SR
Manual operation	11 7/16"	11 7/16"
Electric motor on shaft	11 7/16"	15 3/4"-19 11/16"
Chain host	11 7/16"	15 3/4"-19 11/16"

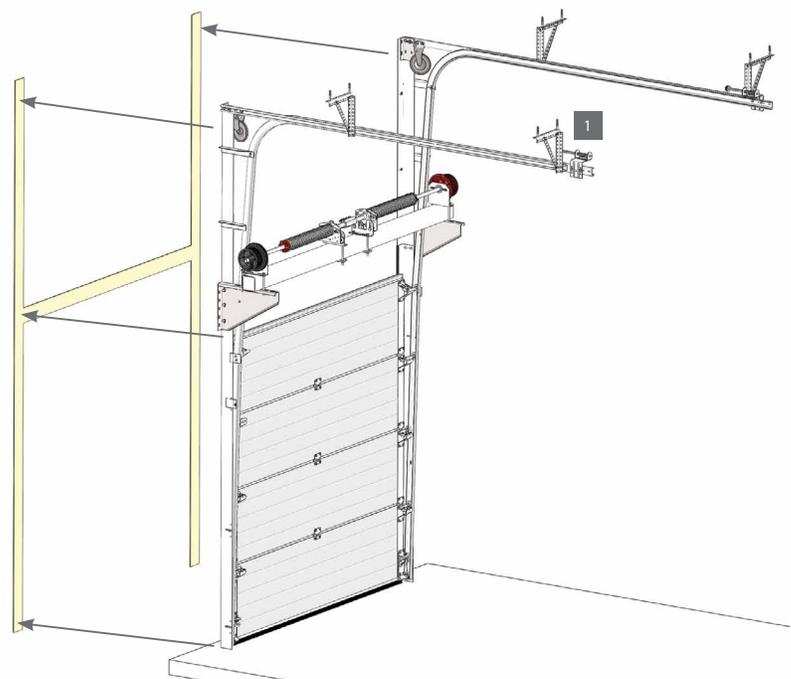
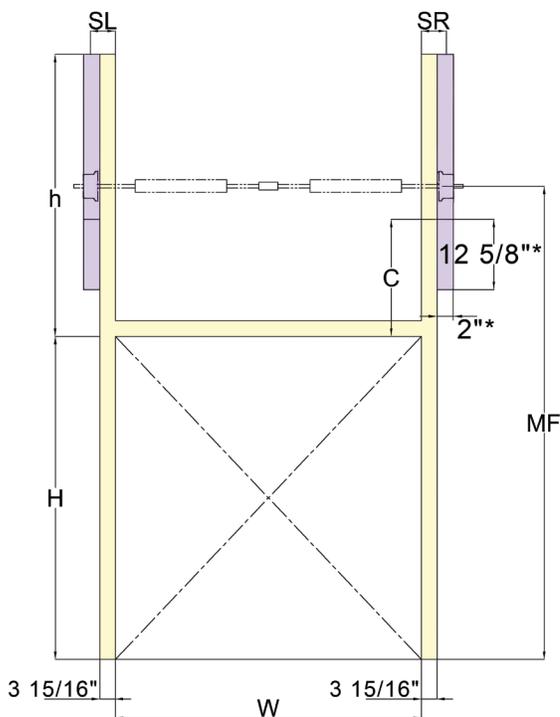
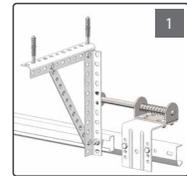
Number or required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side
Up to depth of 216 9/16"	4 suspensions per side
Above depth of 216 9/16"	5 suspensions per side

	C	MF
137 13/16" < W ≤ 236 1/4"	15 3/4"	H + (586 b/w 25 11/16")**

Required headroom	h = min 79 1/2", max 171 5/8"
Opening	H
Installation depth	D = H - hl + 39 3/4"



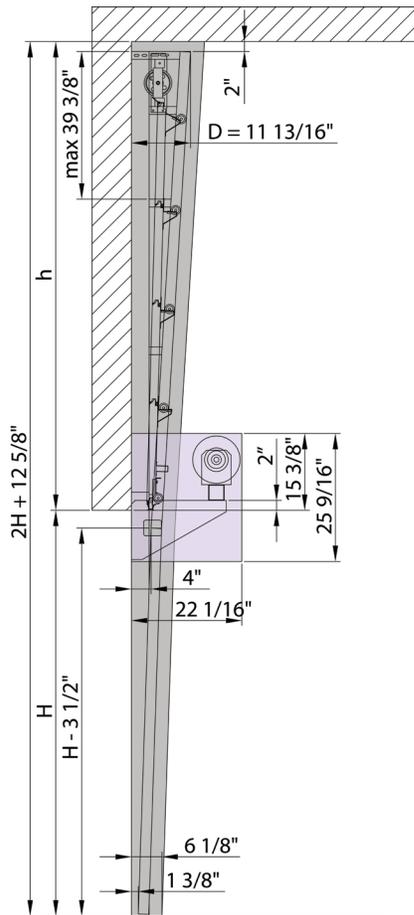
Max weight 1323 lb  
For wicket door with anti-panic lock consult the manufacturer.



\*For fixing the triangular console.

\*\*Depends on which springs (Ø) and which shaft bracket.

# TLP40 VL - MM1 with lower torsion spring shaft



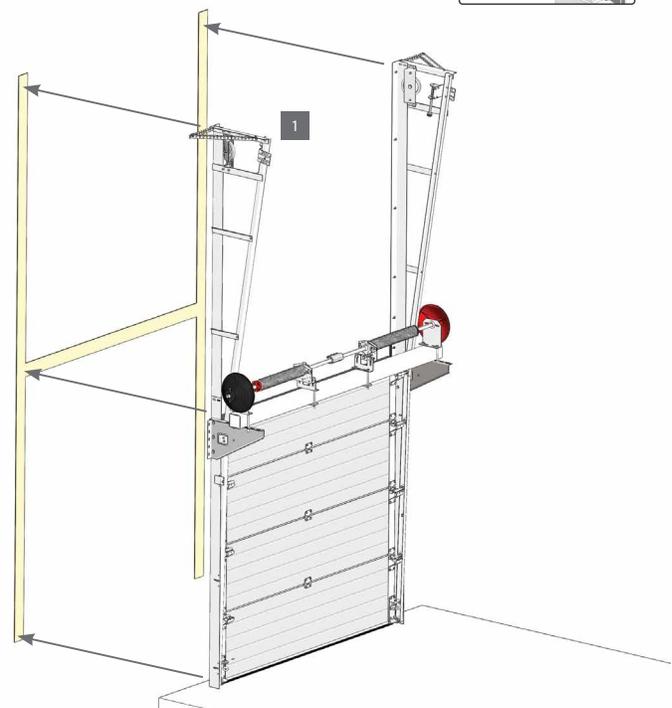
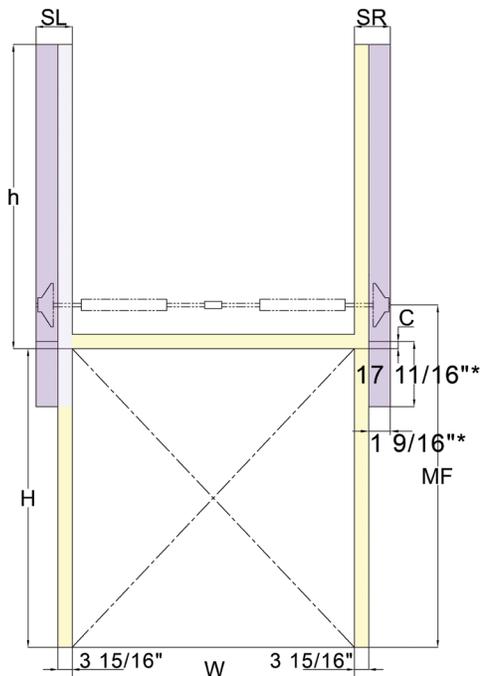
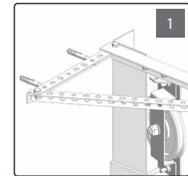
Required sideroom	SL	SR
Manual operation	9 7/16"	9 7/16"
Electric motor on shaft	9 13/16"	13 13/16"-17 11/16"
Chain host	9 7/16"	13 13/16"-17 11/16"

	C	MF
$W \leq 137 \frac{13}{16}$ " , max weight 441 lb	2"	$H + (9 \frac{1}{2}" \text{ b/w } 11 \frac{1}{8}")^{**}$

Required headroom	$h = H + 12 \frac{5}{8}"$ , min 39 3/8"
Opening	H
Installation depth	D = 11 13/16"



It's not able to use cable failure safety device.  
For wicket door with anti-panic lock consult the manufacturer.

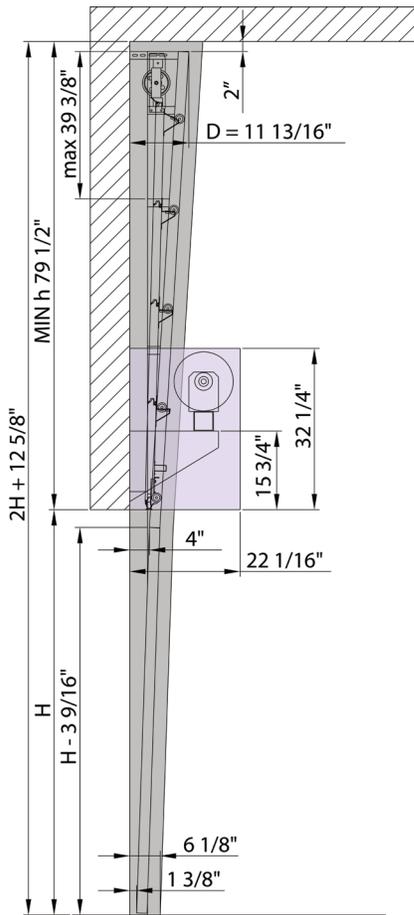


\*For fixing the triangular console.

\*\*Depends on which springs (Ø) and which shaft bracket.

All dimensions are given in millimeters (mm).

# TLP40 VL - MM2 with lower torsion spring shaft



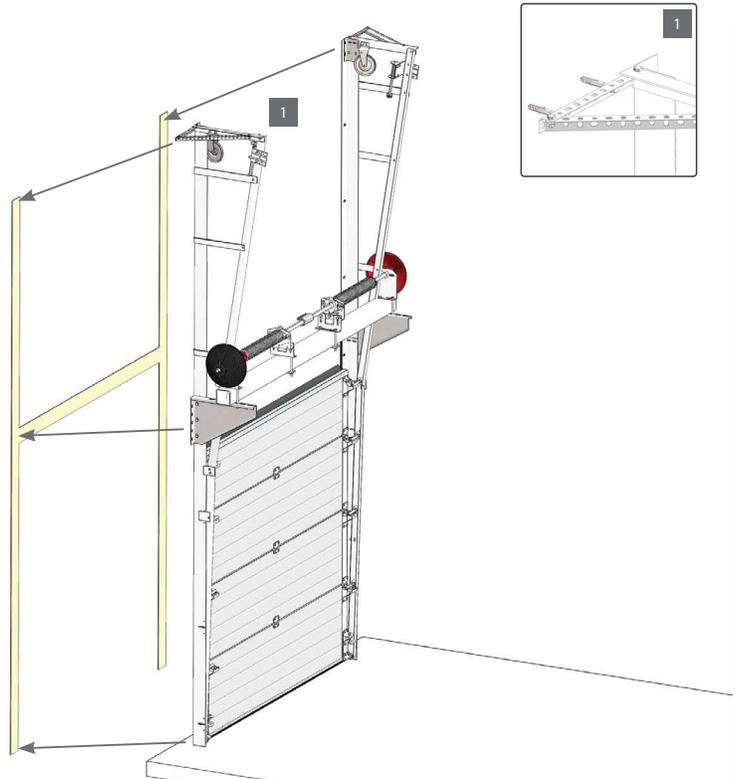
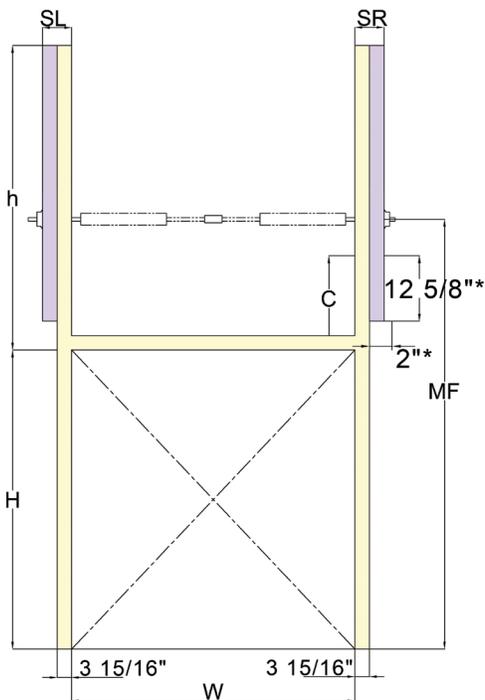
Required sideroom	SL	SR
Manual operation	12 3/16"	12 3/16"
Electric motor on shaft	12 3/16"	400-545
Chain host	12 3/16"	400-545

	C	MF
137 13/16" < W ≤ 236 1/4"	15 3/4"	H + (23 1/16" b/w 25 11/16")**

Required headroom	h = H + 12 5/8", min 86 5/8"
Opening	H
Installation depth	D = 11 13/16"



Max weight 1323 lb  
For wicket door with anti-panic lock consult the manufacturer.



\*For fixing the triangular console.

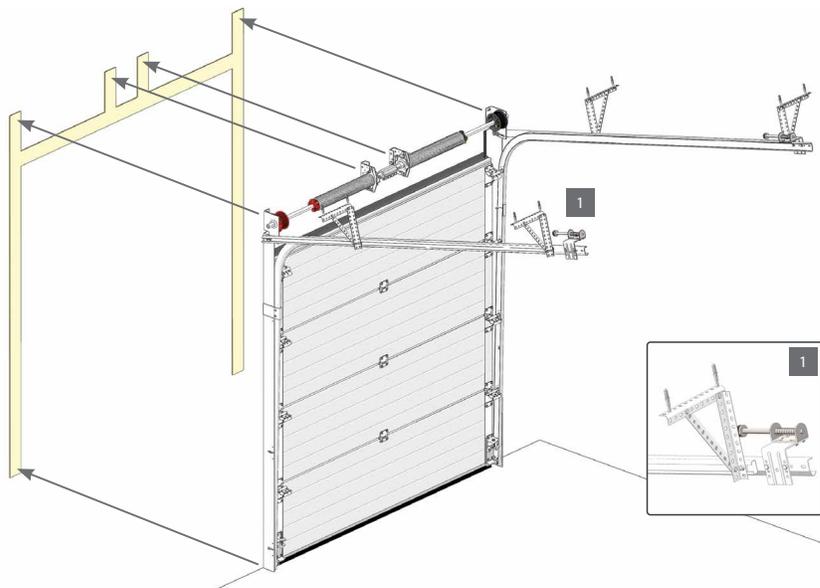
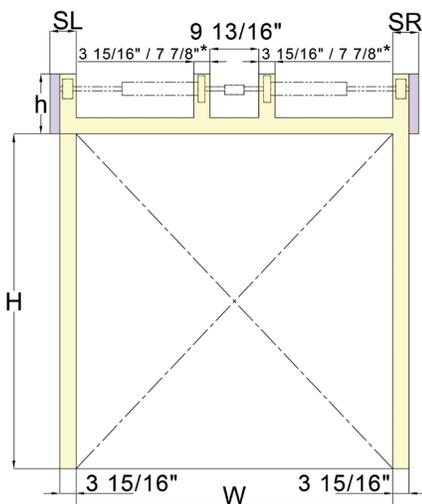
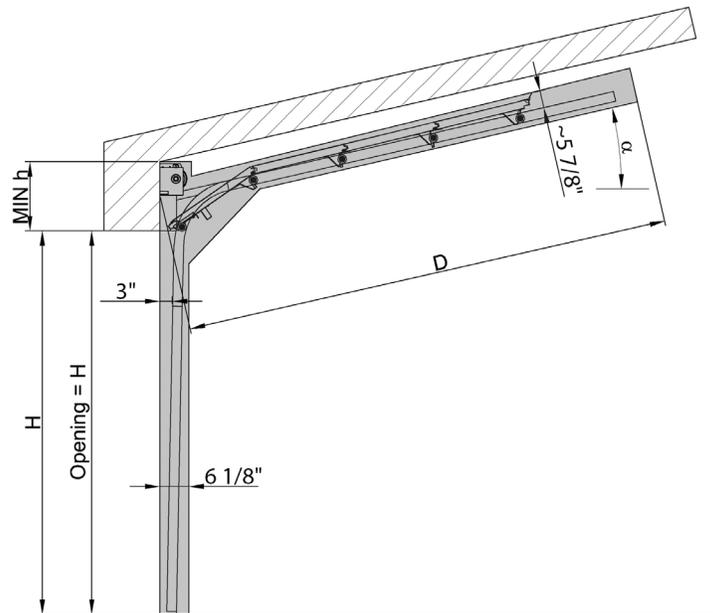
\*\*Depends on which springs (Ø) and which shaft bracket.

Required sideroom	SL	SR
Manual operation	4 5/16"	4 5/16"
Electric motor on shaft	4 5/16"	9 13/16"-13 3/8"
Chain host	4 5/16"	9 7/16"-13 3/8"

Number of required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side
Up to depth of 216 9/16"	4 suspensions per side
Above depth of 216 9/16"	5 suspensions per side

Required headroom	$\alpha \leq 25^\circ$	$25^\circ < \alpha \leq 35^\circ$	$35^\circ < \alpha \leq 45^\circ$	D
$H \leq 98 \frac{7}{16}"$	14 $\frac{9}{16}"$	14 $\frac{9}{16}"$	On request	$H + 20 \frac{1}{16}"$
$98 \frac{7}{16}" < H \leq 196 \frac{7}{8}"$	16 $\frac{15}{16}"$	16 $\frac{15}{16}"$	On request	$H + 20 \frac{1}{16}"$
$196 \frac{7}{8}" < H \leq 236 \frac{1}{4}"$	19 $\frac{7}{8}"$	19 $\frac{7}{8}"$	On request	$H + 20 \frac{1}{16}"$
$H > 236 \frac{1}{4}"$	On request			

Max  $\alpha = 45^\circ$  on request.



\*7 7/8" for doors with  $\varnothing 5 \frac{31}{32}"$  springs.

For  $W > 196 \frac{7}{8}"$ , consult the manufacturer regarding the quantity of springs.

All dimensions are given in millimeters (mm).

Required sideroom	SL	SR
Manual operation	4 5/16"	4 5/16"
Electric motor on shaft	4 5/16"	9 13/16"-13 3/8"
Chain host	4 5/16"	9 7/16"-13 3/8"
With retractable motor	4 5/16"	4 5/16"

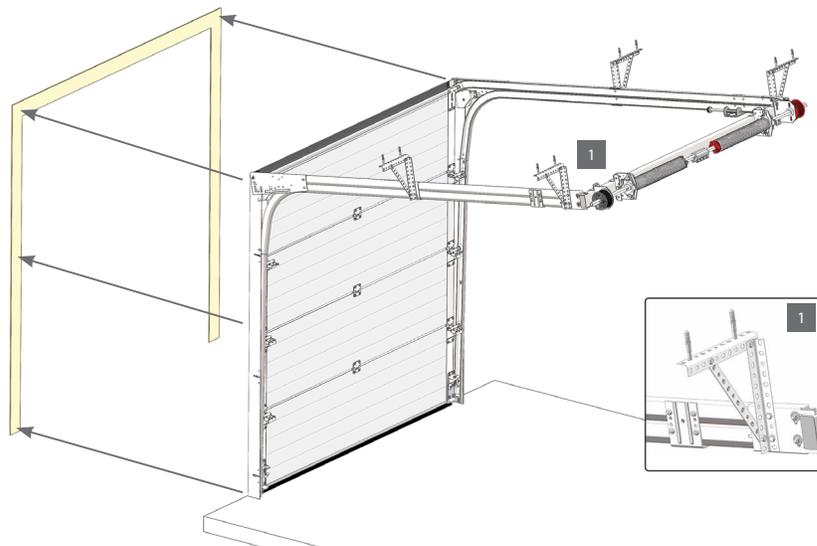
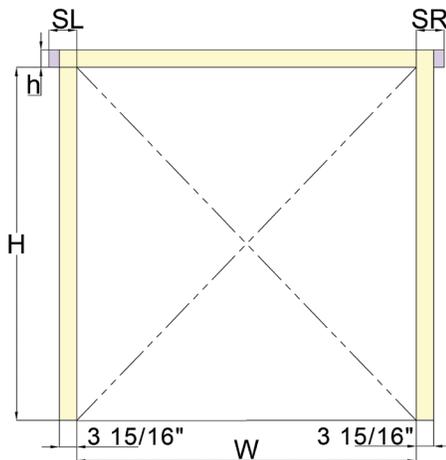
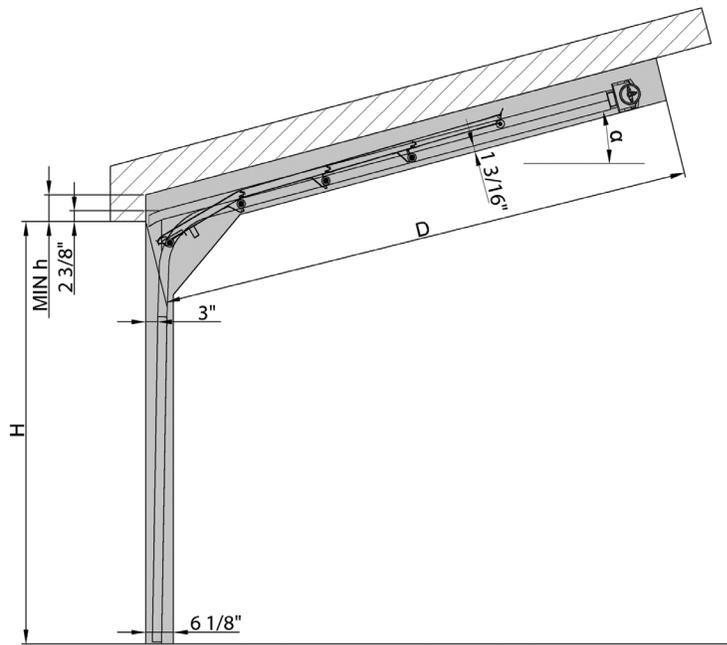
Required headroom	h	D	Opening
Manual operation	4 3/4"	H + 27 9/16"	H - 6 11/16"
Electric motor on shaft	4 3/4"	H + 27 9/16"	H - 6 11/16"
With retractable motor	5 7/8"	H + 27 9/16"*	H - 3 15/16"

Number of required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side
Up to depth of 216 9/16"	4 suspensions per side
Above depth of 216 9/16"	5 suspensions per side



Max W = 236 1/4"  
\*H + 43 5/16" with Sommer operator

Max  $\alpha = 15^\circ$ ,  $\alpha > 15^\circ$  on request.



Required sideroom	SL	SR
Manual operation	4 5/16"	4 5/16"
Electric motor on shaft	4 5/16"	9 13/16"-13 3/8"
Chain host	4 5/16"	9 7/16"-13 3/8"

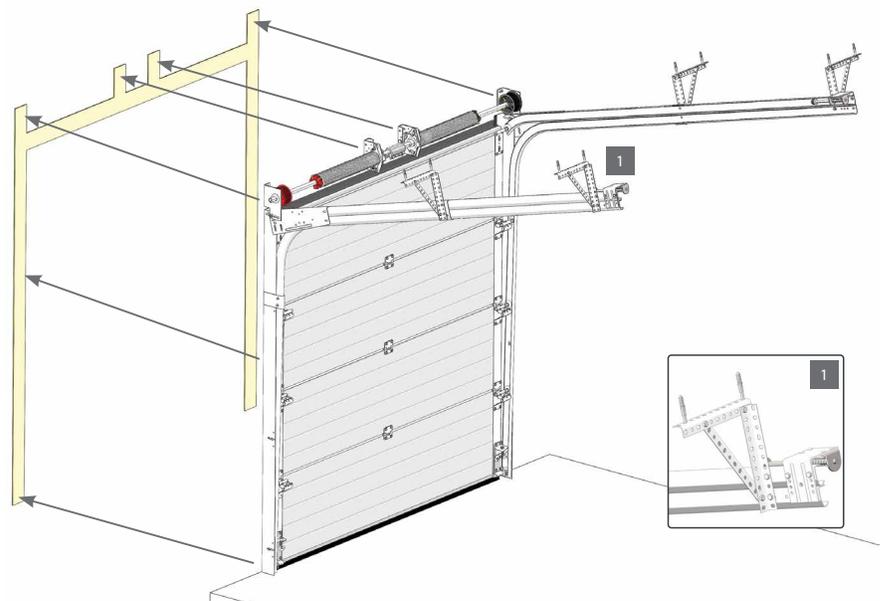
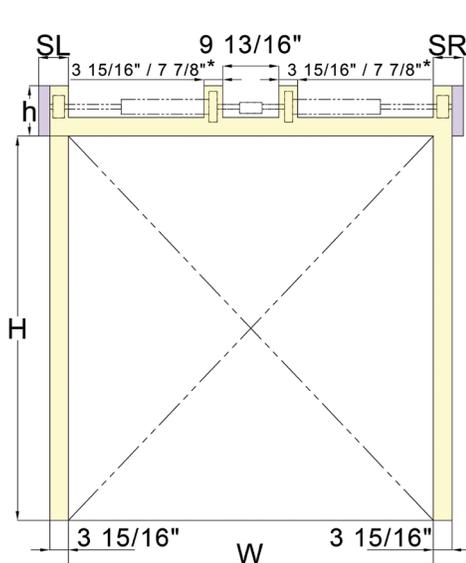
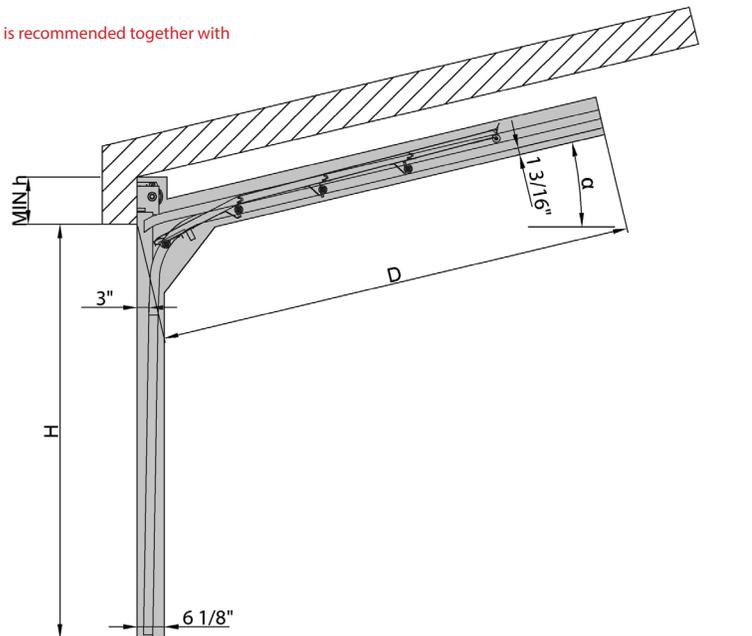
Number of required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side
Up to depth of 216 9/16"	4 suspensions per side
Above depth of 216 9/16"	5 suspensions per side

Required headroom	$\alpha \leq 25^\circ$	$25^\circ < \alpha \leq 35^\circ$	$35^\circ < \alpha \leq 45^\circ$	D	Opening
$H \leq 98 \frac{7}{16}"$	10 5/8"	12 3/16"	On request	$H + 21 \frac{5}{8}"$	$H - 5 \frac{1}{8}"$
$98 \frac{7}{16}" < H \leq 198"$	12 3/16"	12 3/16"	On request	$H + 21 \frac{5}{8}"$	$H - 5 \frac{1}{8}"$
$H > 198"$			On request		

Max  $\alpha = 45^\circ$  on request.



If  $W > 236 \frac{1}{4}"$  cable brake protection is recommended together with cable tensioner.



\*7 7/8" for doors with  $\varnothing 5 \frac{31}{32}"$  springs.

For  $W > 196 \frac{7}{8}"$ , consult the manufacturer regarding the quantity of springs.

All dimensions are given in millimeters (mm).

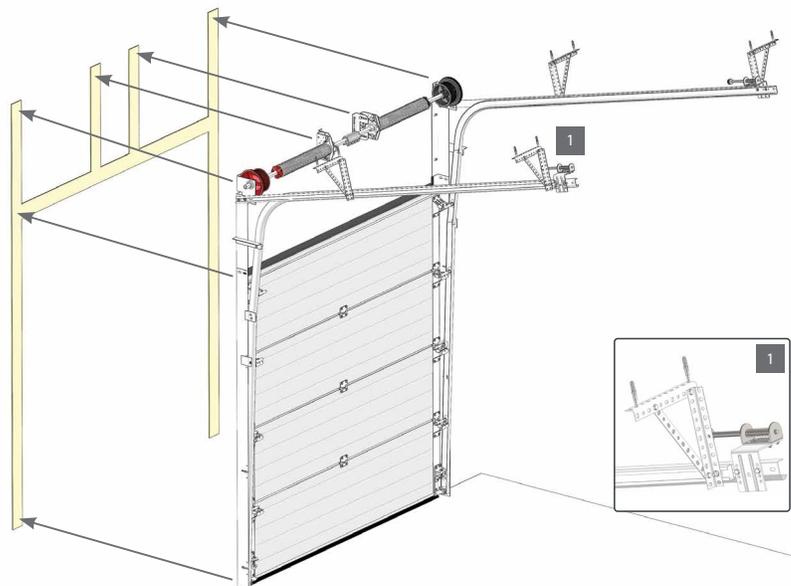
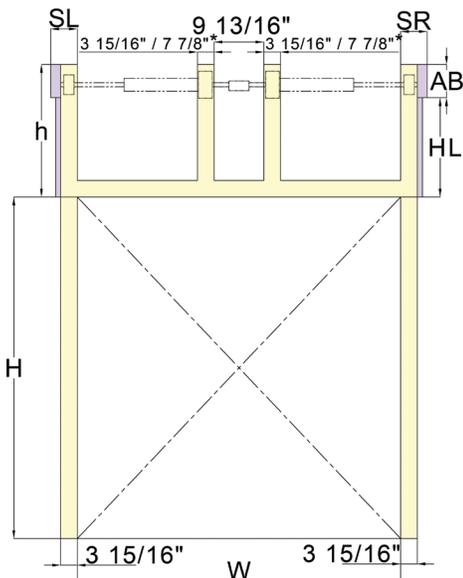
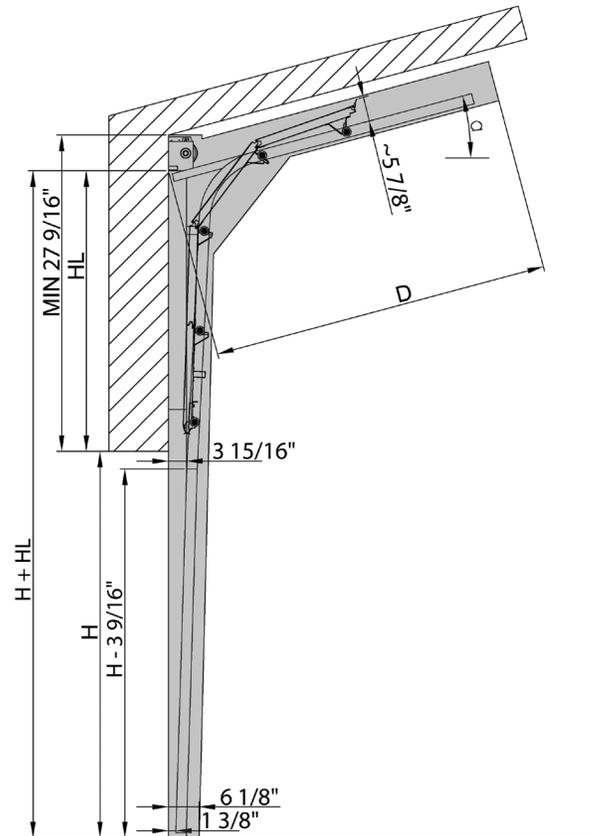
Required sideroom	SL	SR
Manual operation	5 1/8"	5 1/8"
Electric motor on shaft	5 1/8"	9 13/16"-13 3/8"
Chain host	5 1/8"	9 7/16"-13 3/8"

Required headroom	$h = \min 27 \frac{9}{16}" (H \leq 177 \frac{3}{16}"), \max 177 \frac{3}{16}"$
	$h = \min 31 \frac{1}{2}" (H \geq 177 \frac{3}{16}"))$
Opening	H
Installation depth	$D = H - HL + 39 \frac{3}{4}"$

Max  $\alpha = 45^\circ$ , max HL = 165 3/8" on request.

Height & HL correlation		
$H \leq 177 \frac{3}{16}"$	$HL \leq 53 \frac{15}{16}"$	AB = 7 7/8"
$H \leq 236 \frac{1}{4}"$	$HL \leq 165 \frac{3}{8}"$	AB = 11 13/16"
$H > 236 \frac{1}{4}"$ on request		

Number of required suspensions	
Up to depth of 137 13/16"	2 suspensions per side
Up to depth of 177 3/16"	3 suspensions per side
Up to depth of 216 9/16"	4 suspensions per side
Above depth of 216 9/16"	5 suspensions per side



\*7 7/8" for doors with  $\varnothing 5 \frac{31}{32}"$  springs.

For  $W > 196 \frac{7}{8}"$ , consult the manufacturer regarding the quantity of springs.

# TLP80 Thermo panels / tracks



Panel type	S (in)	Thermal conductivity (λ[W/mK])	Panel weight		U value	R value
			Lb/ft	Lb/ft²	W/m²K	(BTU/ft² °F h)
R-600	3 1/8"	0.023	5	2.5	0.28	20.28

Section type	U value (W/m²K)	R value (BTU/ft² °F h)	Wind load resistance class	Water penetration class	Air permeability class	Acoustic insulation (dB)
Sandwich	0.48 - 1	11.82 - 5.68	5	3	2	25
FV - thermo	1.6 - 2	3.55 - 2.84	5	3	3	-

Surface texture



RIB / Stucco

Standard colors

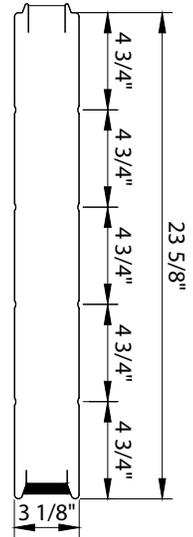
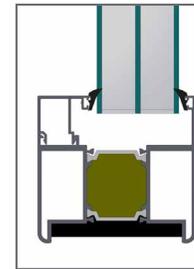
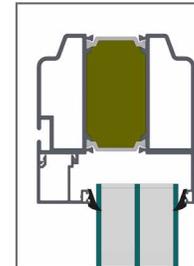


RAL 9016

Other painted colors similar to RAL palette



\*Other specific colours and the NCS palette are available on request.



## STD / LHR-FM / HL-TM / VL-TM

Required sideroom	STD or LHR-FM, left / right	HL-TM or VL-TM left / right
Manual operation	5 1/2" / 5 1/2"	6 5/16" / 6 5/16"
Electric motor on shaft	5 1/2" / 9 13/16"-13 13/16"	6 5/16" / 10 5/8"-14 9/16"
Chain host	5 1/2" / 9 13/16"-13 13/16"	6 5/16" / 10 5/8"-14 9/16"

Lift type	Opening, H	Required headroom, h	Installation depth, D	Daylight opening
STD	H ≤ 198"	18 1/8"	H + 21 5/8"	H
	H > 198" on request			
LHR-FM	H ≤ 198"	12 3/16"	H + 21 5/8"	H - 5 1/8"
HL-TM	H < 236 1/4"	28 3/8" < h ≤ 177 3/16"	H - h + 51 5/8"	H
VL-TM	H ≤ 129 15/16"	H + 12 5/8"	17 11/16"	H
	129 15/16" < H ≤ 236 1/4", max 1102 lb	H + 12 5/8"	19 11/16"	H
	129 15/16" < H ≤ 236 1/4", max 1653 lb	H + 12 5/8"	23 5/8"	H
	H > 236 1/4" on request			

## LHR-RM / STD-RM

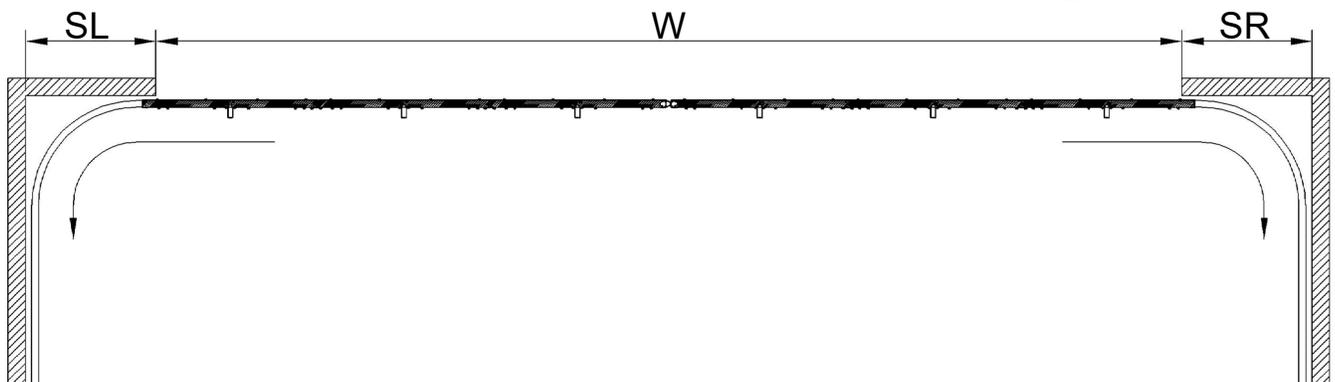
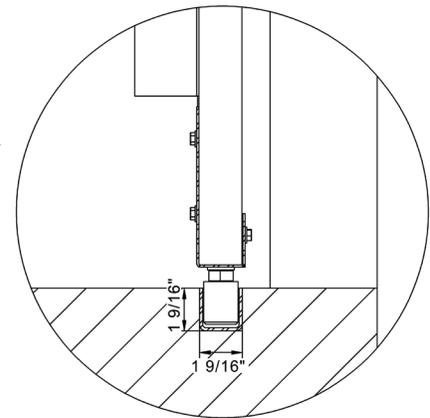
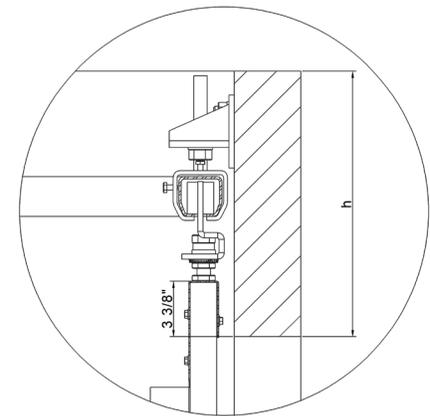
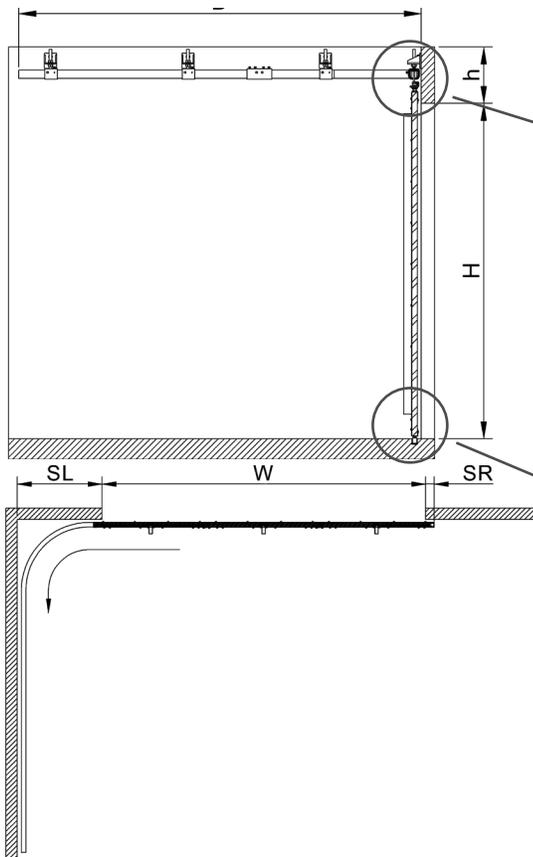
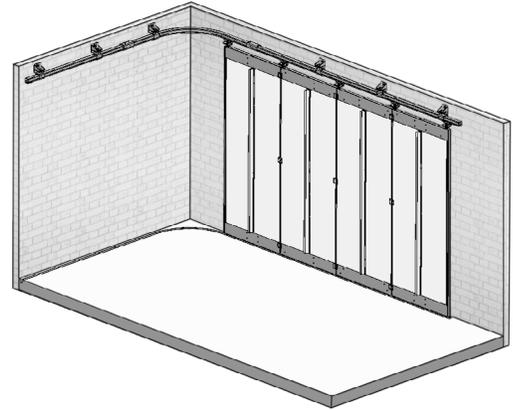
Lift type	Opening, H	Required headroom, h	Installation depth, D	Daylight opening	Required sideroom, left / right
LHR-RM	Manual operation	6 11/16"	H + 29 1/8"	H - 6 11/16"	5 1/2" / 5 1/2"
	Electric motor on shaft	6 11/16"	H + 29 1/8"	H - 6 11/16"	5 1/2" / 9 13/16"-13 13/16"
	With retractable motor	7 7/8"	H + 29 1/8"	H - 6 11/16"	5 1/2" / 5 1/2"
	Chain host	6 11/16"	H + 29 1/8"	H - 6 11/16"	5 1/2" / 9 13/16"-13 13/16"
STD-RM	Manual operation	9 7/16"	H + 49 5/8"	H*	6 5/16" / 6 5/16"
	Electric motor on shaft	9 7/16"	H + 49 5/8"	H*	6 5/16" / 10 5/8"-14 9/16"
	With retractable motor	11 1/4"	H + 49 5/8"	H*	6 5/16" / 6 5/16"
	Chain host	9 7/16"	H + 49 5/8"	H*	6 5/16" / 270-14 9/16"

Max weight = 992.1 lb  
\*For doors wider than 177 3/16" daylight opening will be H - 1 9/16".

# Industrial side sliding sectional doors ISSD

Manual					
	WxH (max)	h	SL	SR	D
Single leaf	393 11/16"×314 15/16"	15 3/4"	29 1/2"	3"	W
Double leaf	787 3/8"×314 15/16"	15 3/4"	29 1/2"	29 1/2"	W/2

Automatic					
	WxH (max)	h	SL	SR	D
Single leaf	393 11/16"×314 15/16"	43 5/16"	68 7/8"	11 13/16"	W-39 3/8"
Double leaf	787 3/8"×314 15/16"	43 5/16"	68 7/8"	68 7/8"	W/2-39 3/8"

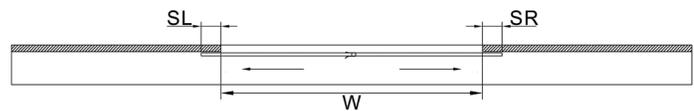
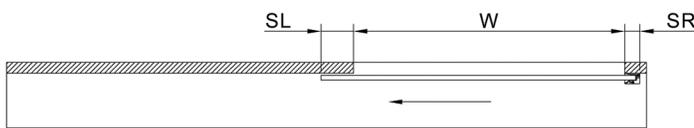
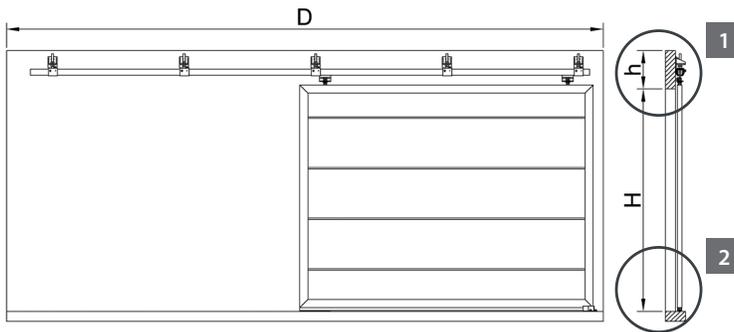
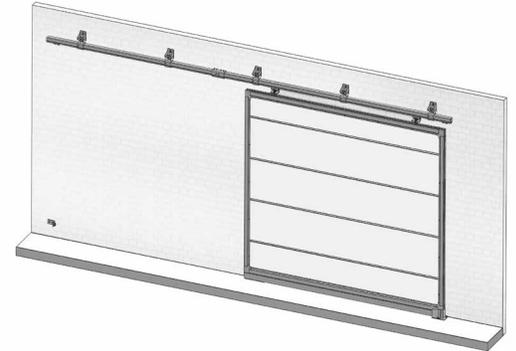


# Industrial side framed doors ISFD

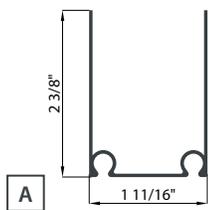


Single leaf						
	WxH (max)	Max weight, lb	h,	SL,	SR	D
A	137 13/16"x98 7/16"	375	7 7/8"	5 7/8"	5 1/2"	11 13/16" + x2 W
B	157 1/2"x157 1/2"	661	11"	5 7/8"	5 1/2"	11 13/16" + x2 W
C	> 157 1/2"x157 1/2"	1323	16 1/8"	11 13/16"	7 1/2"	19 5/16" + x2 W

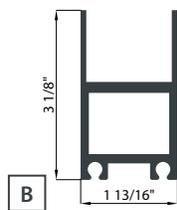
Double leaf						
	WxH (max)	Max weight, lb	h	SL	SR	D
	275 9/16"x98 7/16"	375	7 7/8"	5 7/8"	5 7/8"	11 13/16" + x2 W
	314 15/16"x157 1/2"	661	11"	11 13/16"	11 13/16"	23 5/8" + x2 W
	> 314 15/16"x157 1/2"	2646	20 1/16"	11 13/16"	11 13/16"	23 5/8" + x2 W



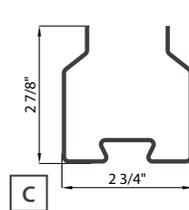
## FRAMING PROFILES



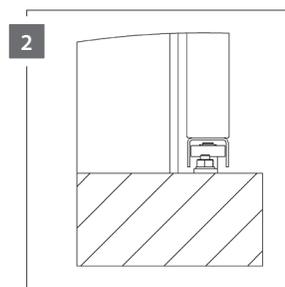
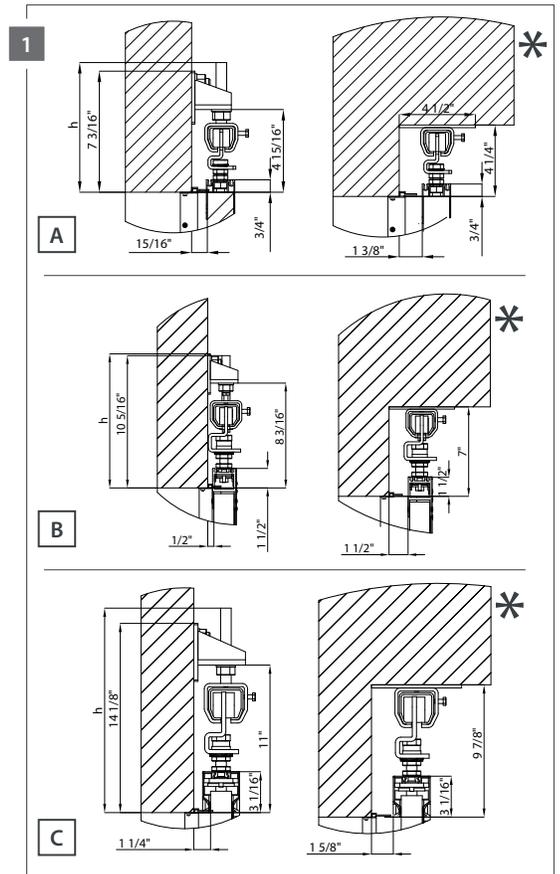
Anodised aluminium



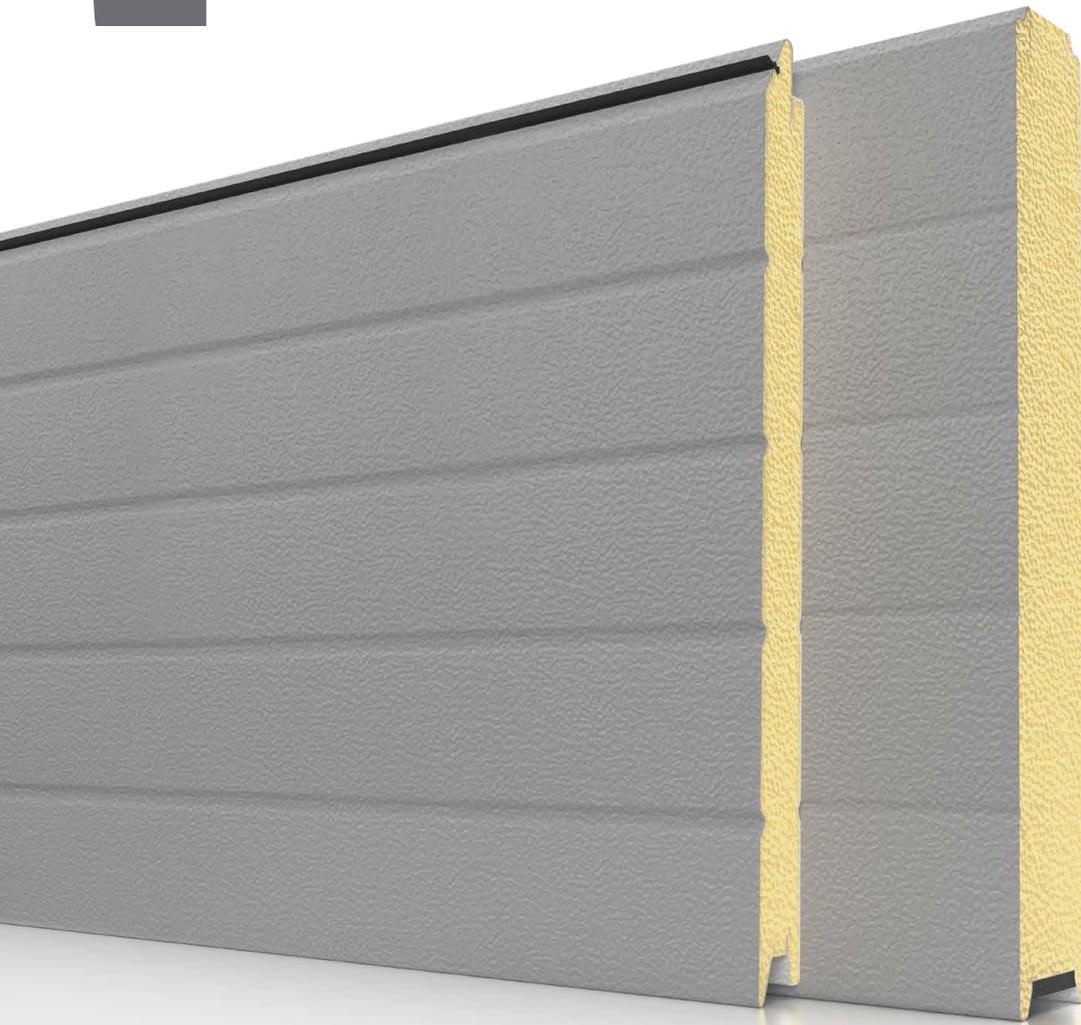
Anodised aluminium



Zinc coated steel

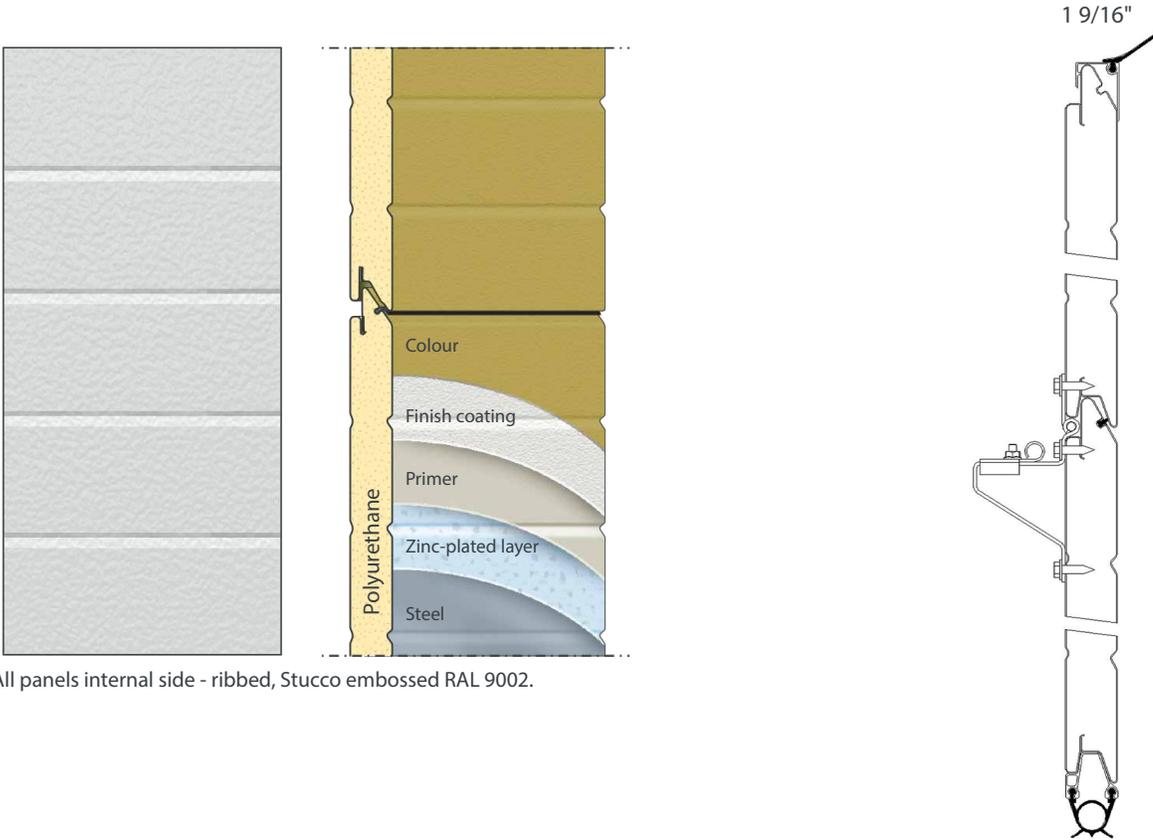


# PANELS



Panel type	S (in)	Panel weight		Tolerances			U value	R value
		Lb/ft	Lb/ft <sup>2</sup>	Thickness	Width	Length	W/m <sup>2</sup> K	BTU/ft <sup>2</sup> °F h
R-500	1 9/16"	3.19	1.95	+/- 2	+/- 1	+/- 5	0.53	10.7
R-610		3.80	1.91					

Section type**	U value (W/m <sup>2</sup> K)	R value (BTU/ft <sup>2</sup> °F h)	Wind class	Water penetration class
Sandwich	1,11	5.12	5	3*
Sandwich with windows	1,19	4.77	2	3*
Sandwich with pass door	1,41	4.03	2	0
FV	3,59	1.58	3	3*
FV wicket door	3,99	1.42	2	0
FV - thermo 40	3,07	1.88	3	3

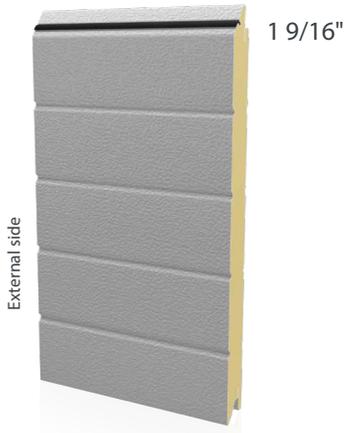


All panels internal side - ribbed, Stucco embossed RAL 9002.

\*Exception: agreement between manufacturer and purchaser.

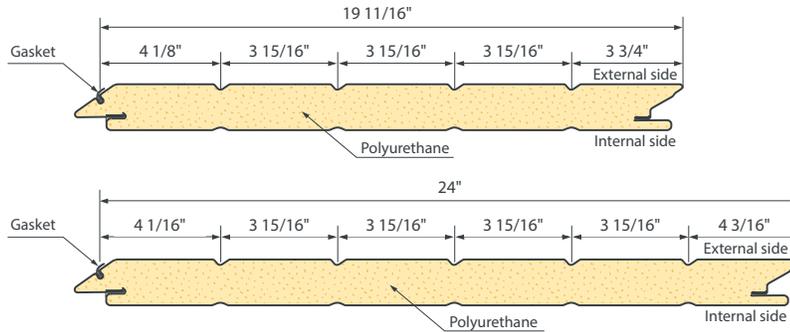
\*\*Exact door classifications are calculated for each door individually and may differ from the numbers listed above. The precise values depend on the specific size and configuration of each door.

## RIB

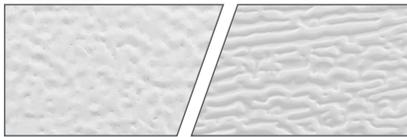


1 9/16"

External side



Surface textures



Stucco

Woodgrain

Standard colors



RAL 3000

RAL 5010

RAL 6005

RAL 6009

RAL 7016

RAL 8017



RAL 8019

RAL 9002

RAL 9005\*

RAL 9006

RAL 9007

RAL 9016

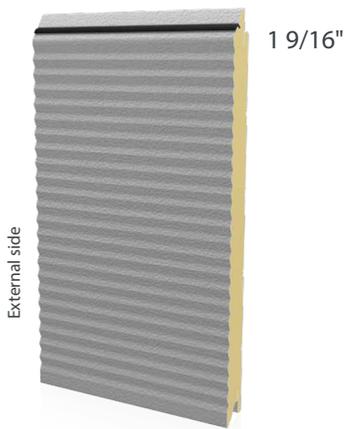


Other painted colors similar to RAL palette

\*RAL 9005 in Woodgrain only.

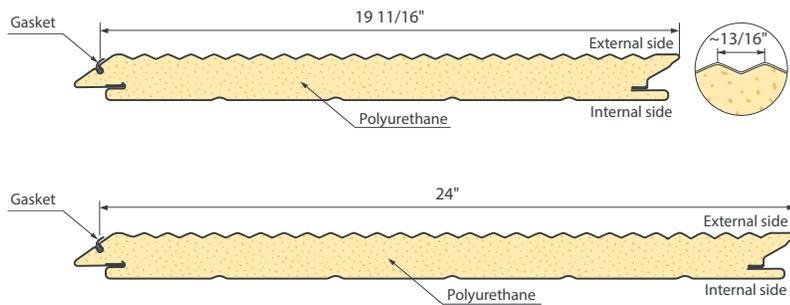
\*\*Other specific colours and the NCS palette are available on request.

## MACRORIB



1 9/16"

External side



Surface texture



Stucco

Standard colors



RAL 9016

RAL 9007

RAL 7016

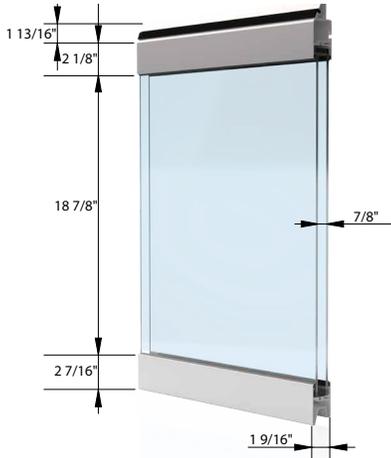
Other painted colors similar to RAL palette



\*Other specific colours and the NCS palette are available on request.

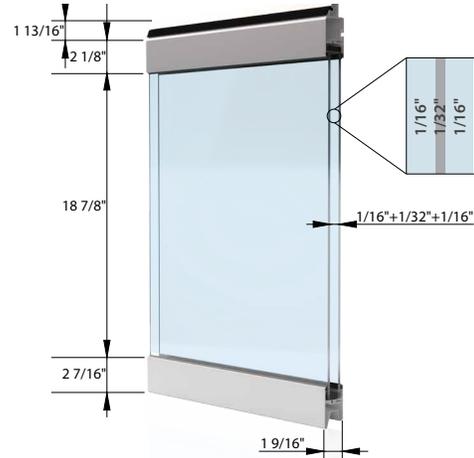
## FULL VIEW

Double insulated acrylic glazing.  
Anti-scratch acrylic glazing (outside/inside).

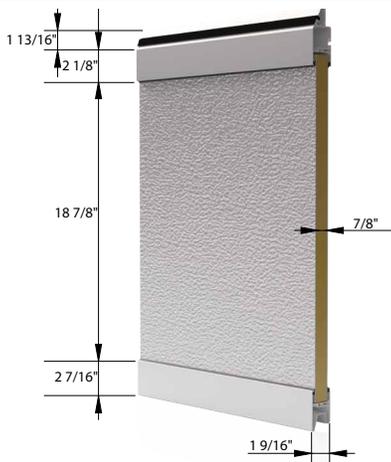


## NATURAL SAFETY GLASS

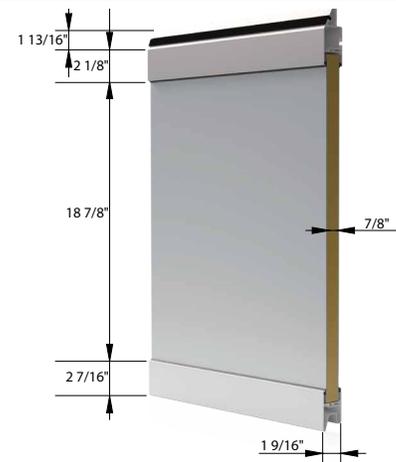
Natural safety glass clear single.  
Natural safety glass clear double.



## SANDWICH FILLING / STUCCO

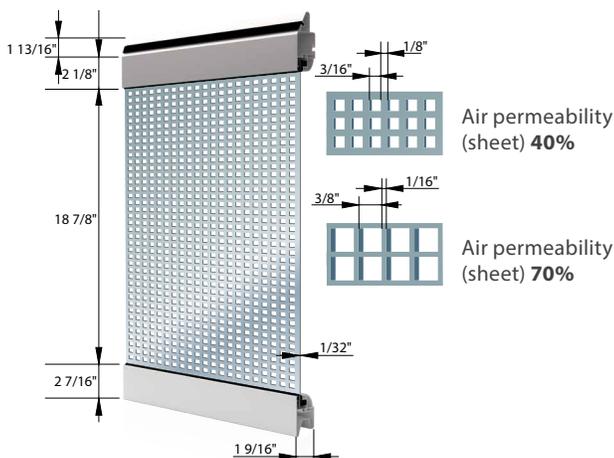


## SANDWICH FILLING / SMOOTH



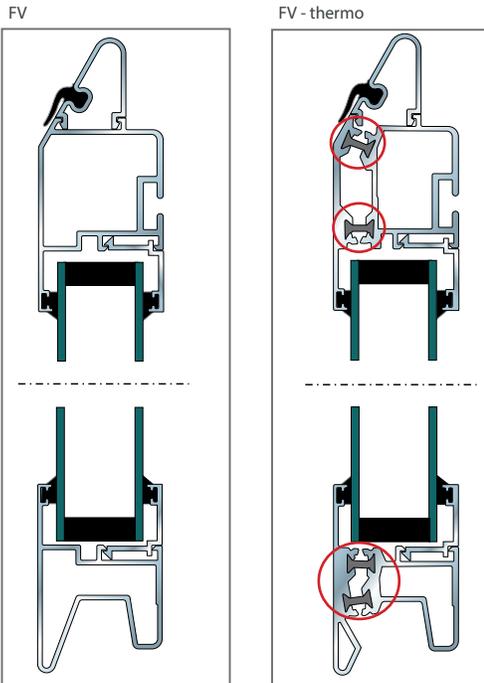
## TLT

Perforated, galvanized and coated steel sheet filling (3/16"×3/16"; 3/8"×3/8").  
Perforated aluminium sheet filling (only 3/8"×3/8").



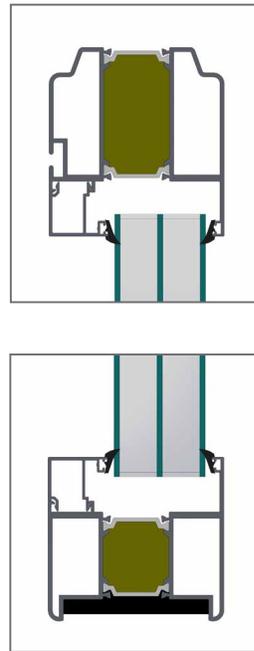
## 1 9/16" SECTION

Full vision sections with FV - thermo profile can be glazed in same way as FV - aluminium profile.



## 3 1/8" SECTION

3 1/8" FV - thermo.



## GLAZING



Standard clear acrylic glazing.



Scratch-proof clear acrylic glazing.



Clear



Matt

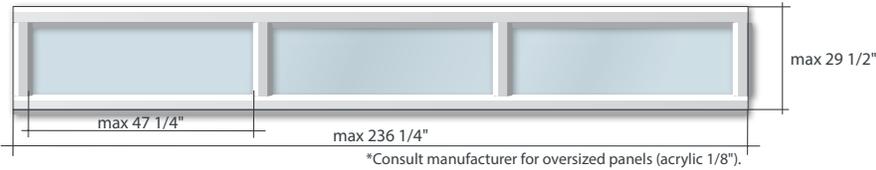


Frosted



Tinted (grey or brown)

## DOUBLE INSULATED ACRYLIC (clear / matt / frosted) GLAZING



## THERMO PROFILES



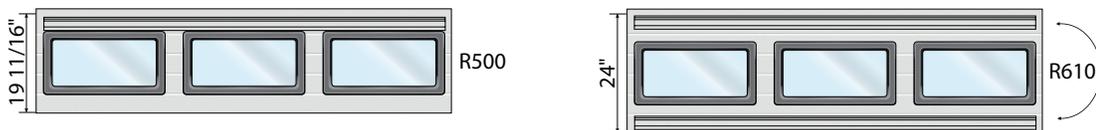
## SINGLE / DOUBLE (Safety glass) GLAZING



## CONTINUOUS GLAZING

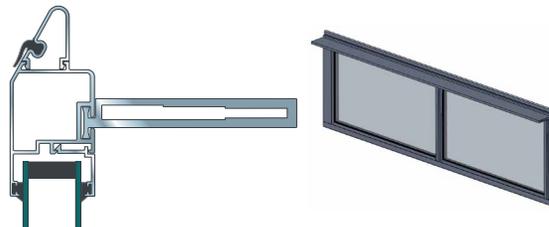


## REINFORCEMENT PROFILES ON GLAZED PANELS



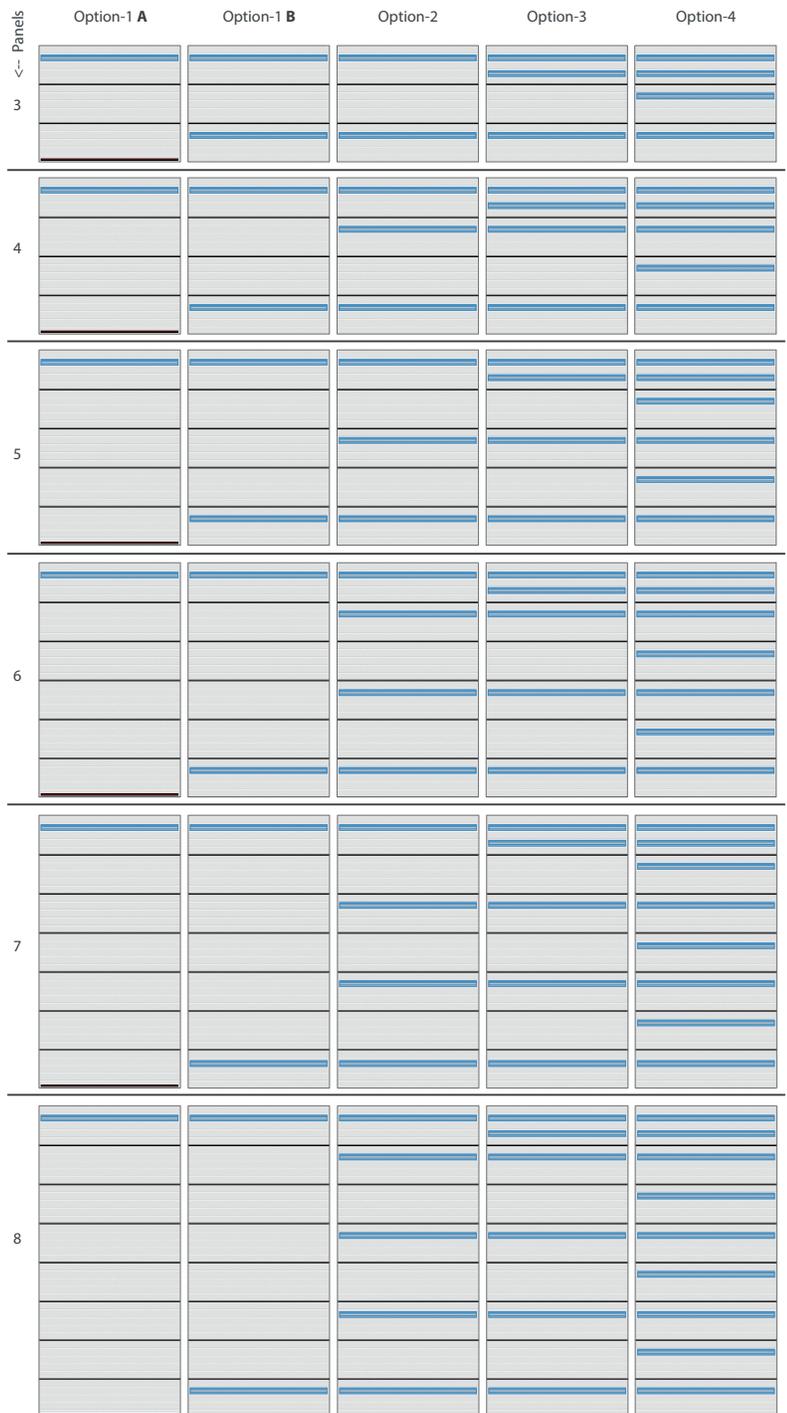
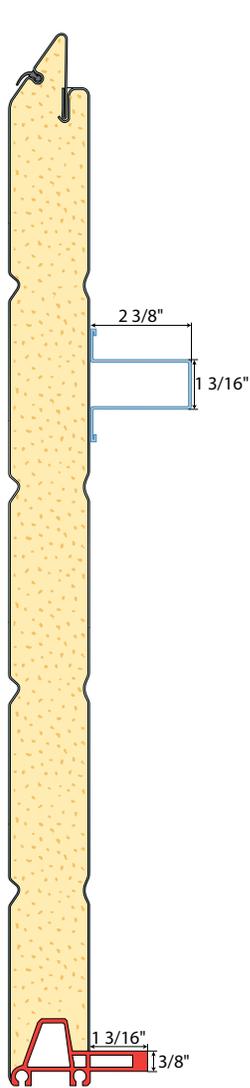
## PROFILE FIXING POINTS

Door panel length L	Profile	Quantity of profiles
$\leq 177 \frac{3}{16}$ "	-	-
$177 \frac{3}{16}$ " - $255 \frac{7}{8}$ "	AI 60	On each door panel
$> 196 \frac{7}{8}$ "	AI 100	For door with wicket door on 4th panel
$\geq 255 \frac{15}{16}$ "	AI 100	Each door panel

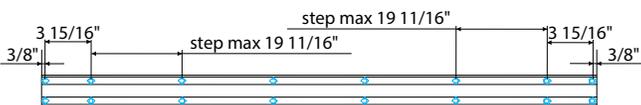


# Reinforcement profiles $\leq 314 \text{ } 15/16''$

Opening width, W	Profile type	Option No.	Main location on panel	Quantity of reinforcements	
$W \leq 177 \text{ } 3/16''$	-	-	-	-	
$177 \text{ } 3/16'' < W \leq 196 \text{ } 7/8''$	Bottom reinforced + omega	1-A	"Option No. 1-A" is used by default. For cut bottom panel or STD-RM lift type use "Option No. 1-B"	Top of panel (for omega)	$1 + 1 = 2$
	Omega	1-B		Top partition of panel	2
$196 \text{ } 7/8'' < W \leq 216 \text{ } 9/16''$	Omega	2	Top partition of panel	On every second door panel	
$216 \text{ } 9/16'' < W \leq 236 \text{ } 1/4''$	Omega	3	Top partition of panel	On every second door panel + 1 on top	
$236 \text{ } 1/4'' < W \leq 314 \text{ } 15/16''$	Omega	4	Top partition of panel	On each door panel + 1 on top	



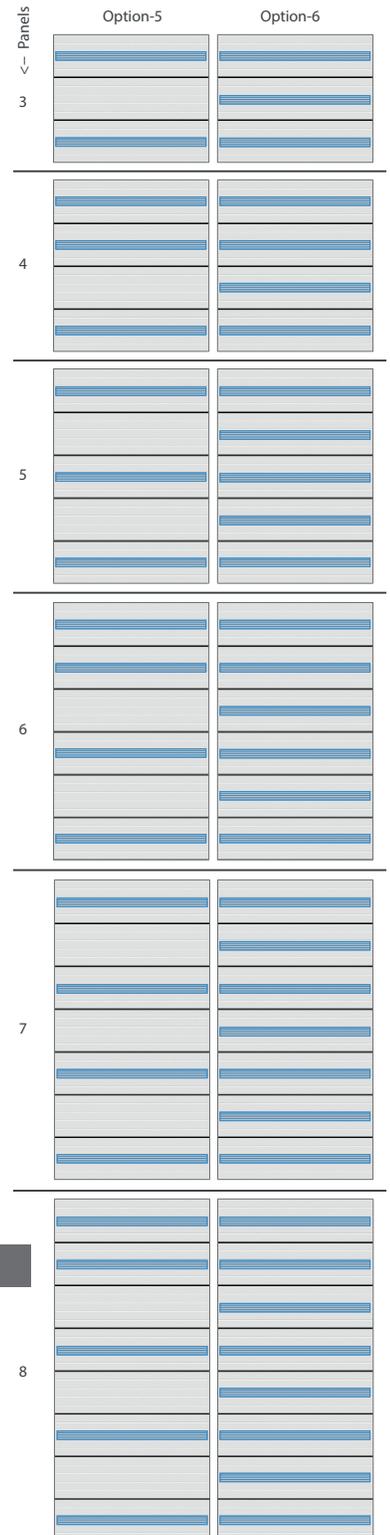
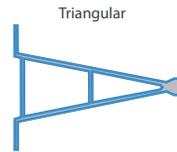
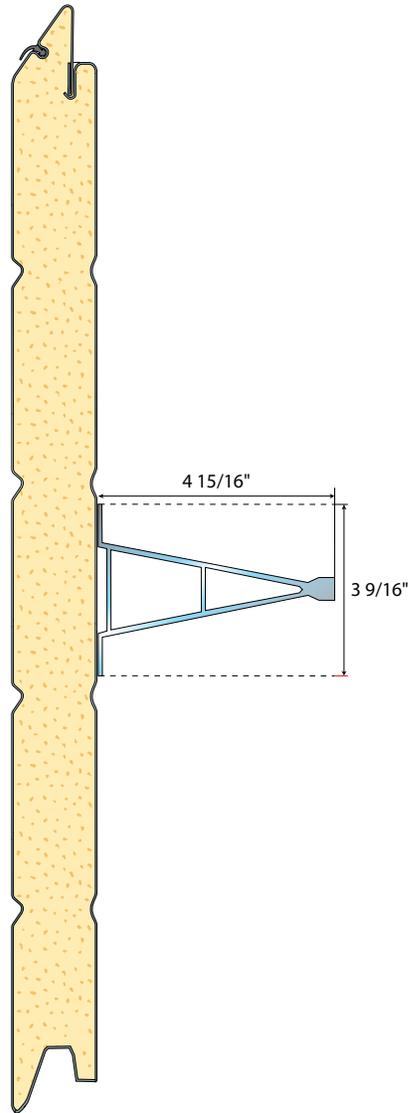
## PROFILE FIXING POINTS



# Reinforcement profiles > 314 15/16"



Opening width, W	Profile type	Option No.	Main location on panel	Quantity of reinforcements
$314 \frac{15}{16} < W \leq 354 \frac{5}{16}$ "	Triangular	5	Middle partition	On every second door panel
$354 \frac{5}{16} < W$	Triangular	6	Middle partition	On each door panel



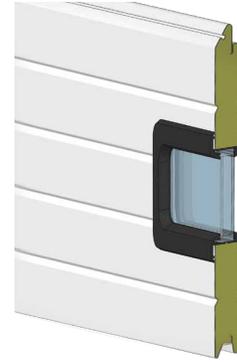
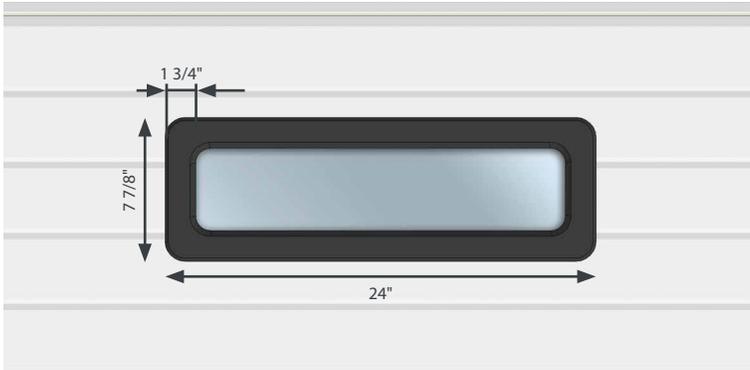
## PROFILE FIXING POINTS



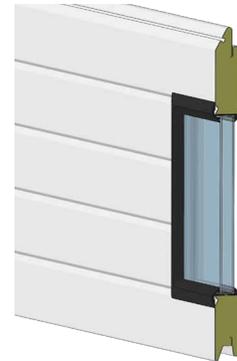
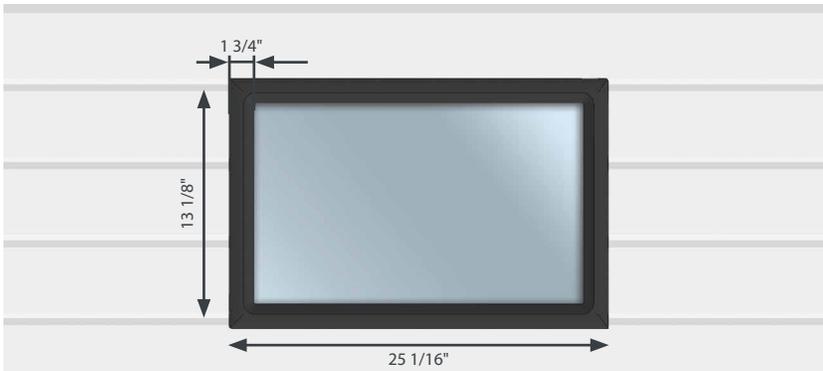
# WINDOWS



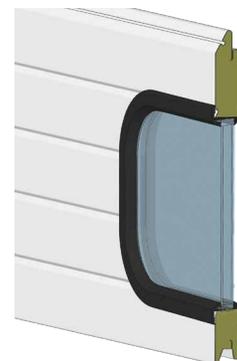
## RECTANGULAR NARROW (acrylic)



## RECTANGULAR (acrylic)



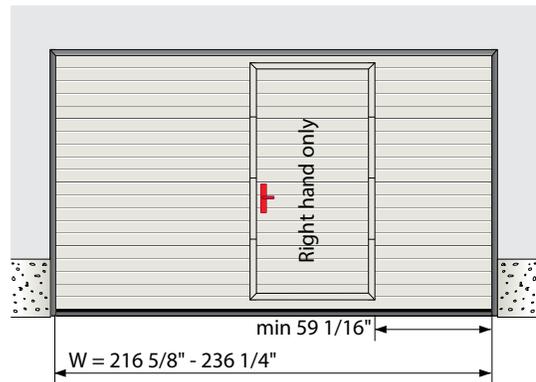
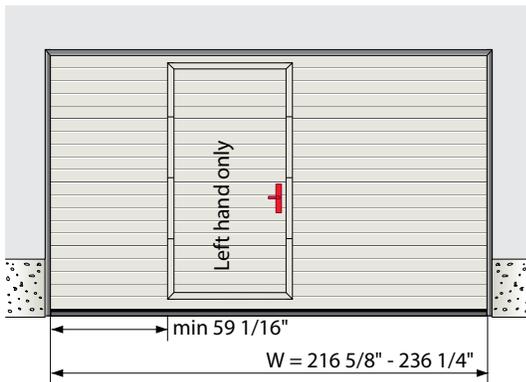
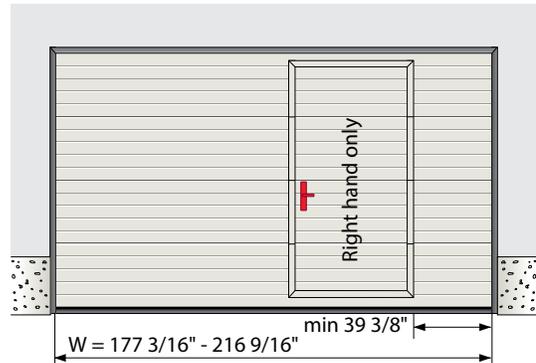
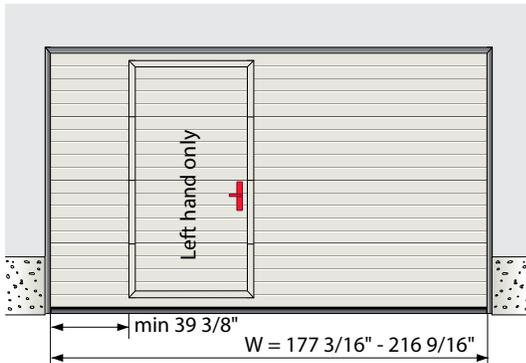
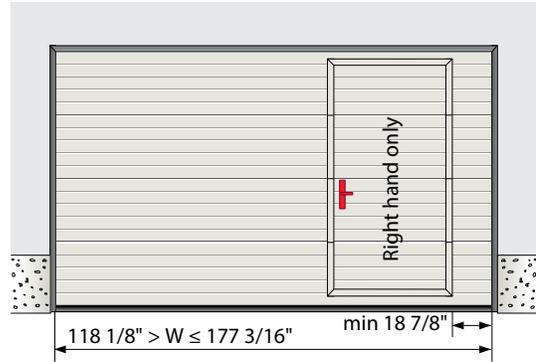
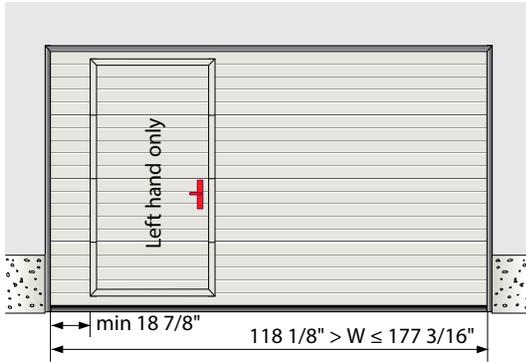
## OVAL (acrylic)



# WICKET DOORS



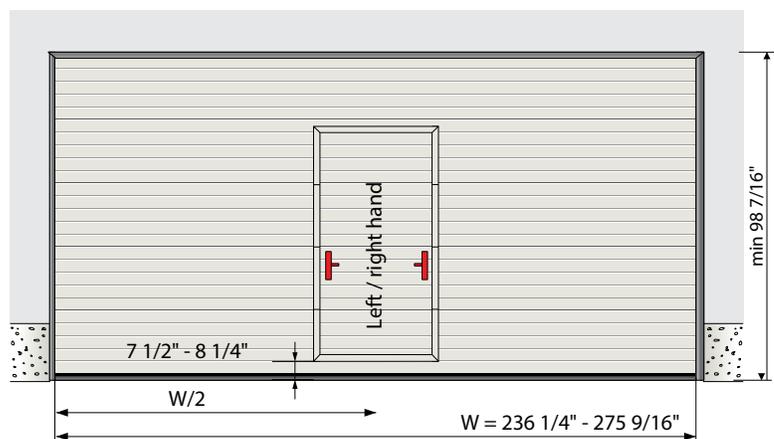
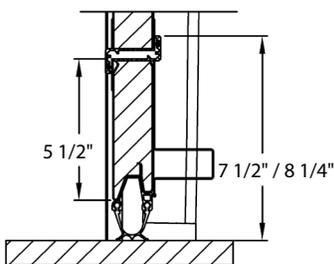
## EXTERNAL VIEW

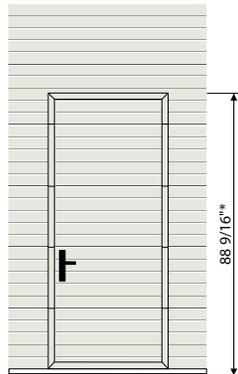
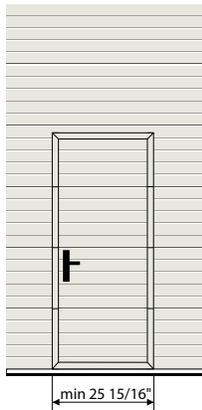
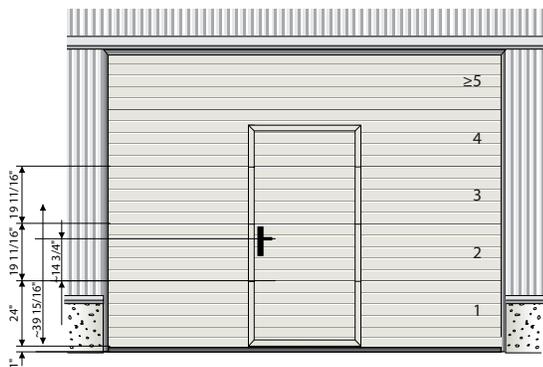
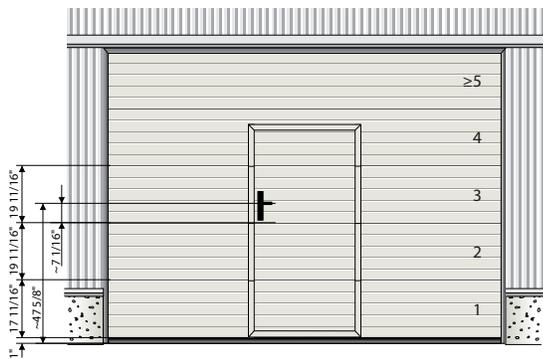
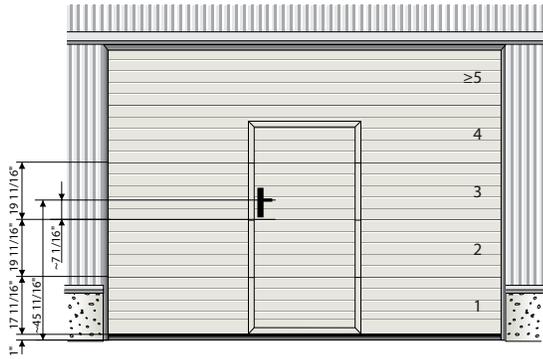


Handle side (L/R) may be chosen when the wicket door is centred.



Wicket door with higher threshold.

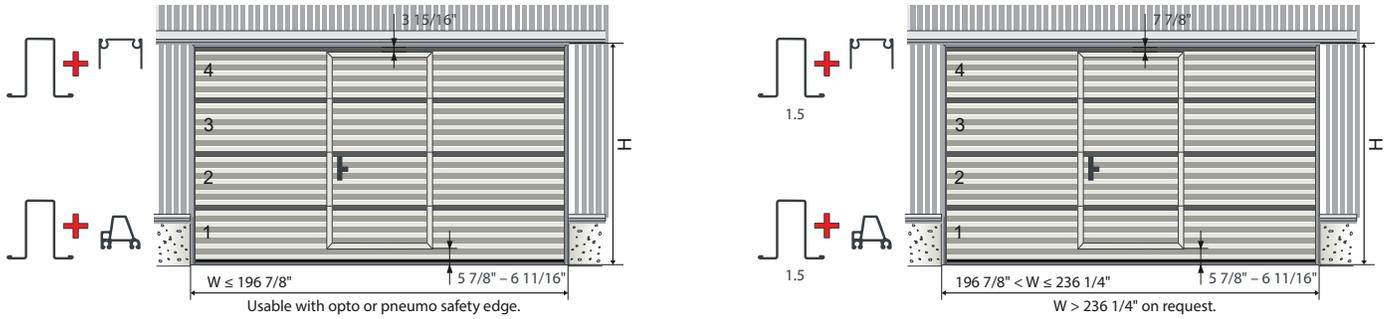




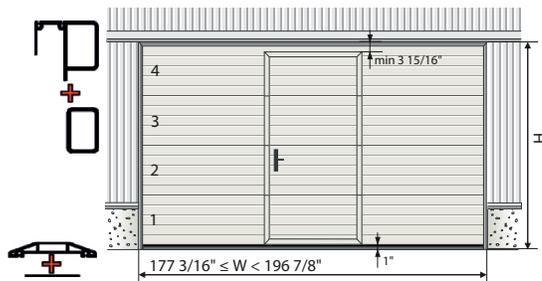
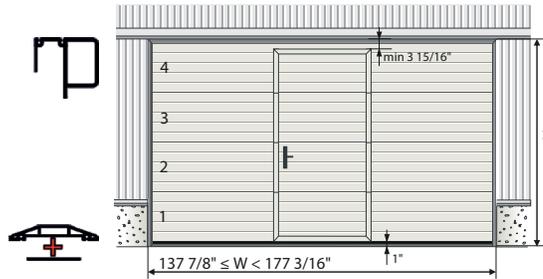
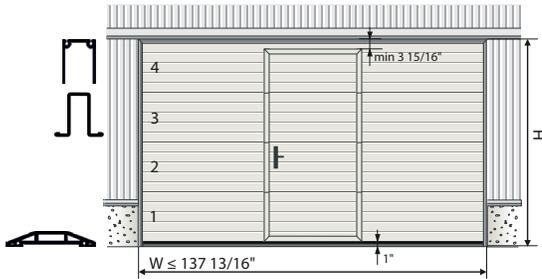
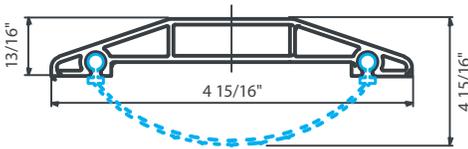
Consult factory for oversized doors.

\*Depends on panel layout.

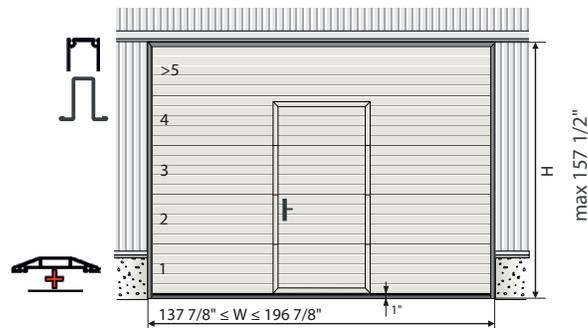
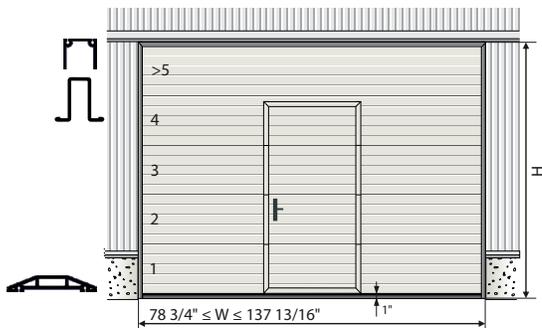
## STANDARD THRESHOLD



## LOW THRESHOLD



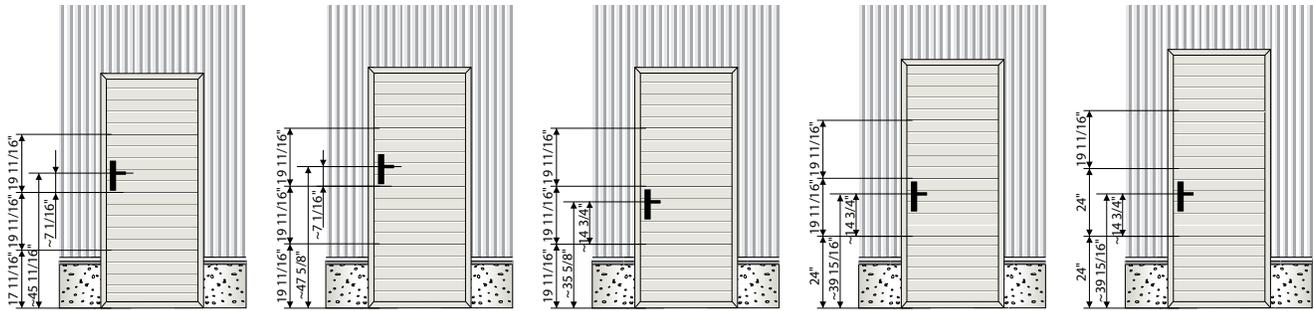
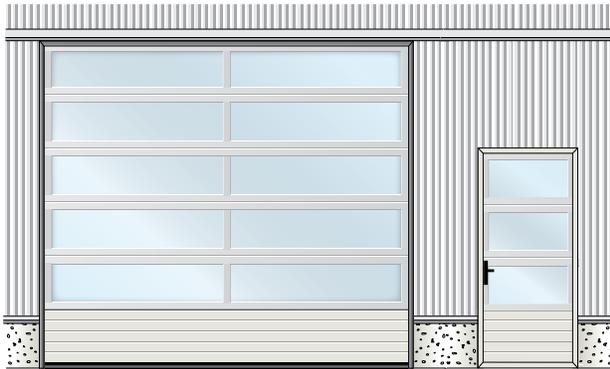
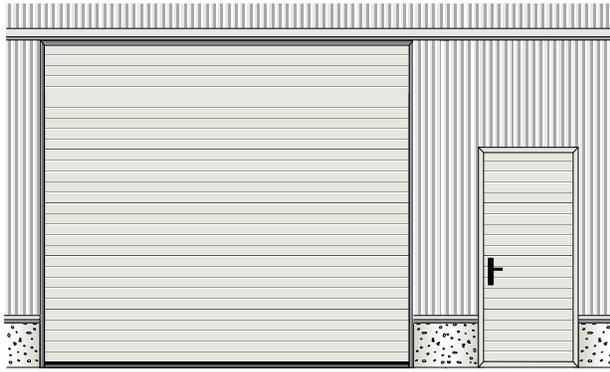
$W \geq 196\ 7/8\"$  - on request.



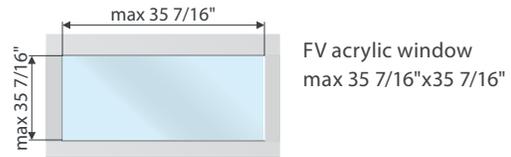
# SIDE HINGED DOORS



# Side hinged doors SH1



## SIDE DOOR CRITICAL DIMENSIONS



## HANDLE OPTIONS



Black handle  
22050



White handle  
22050



Silver handle  
22050

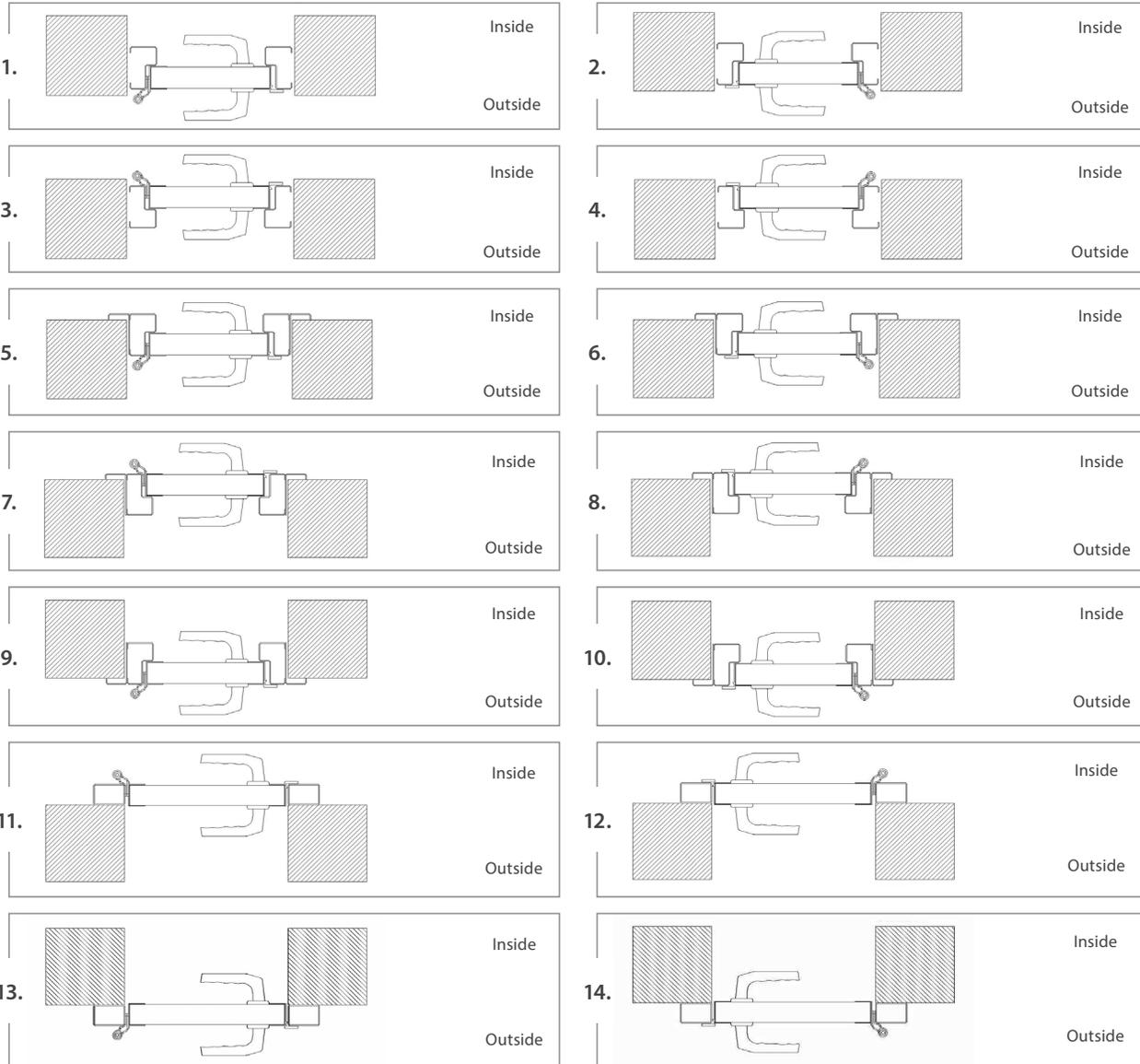


Fixed knob  
(optional)  
22046

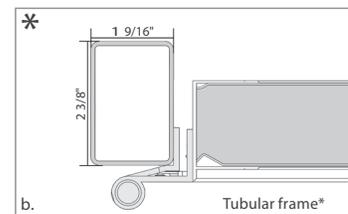
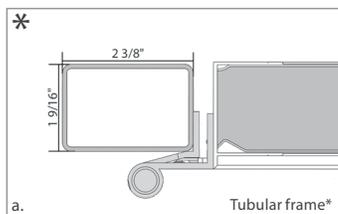
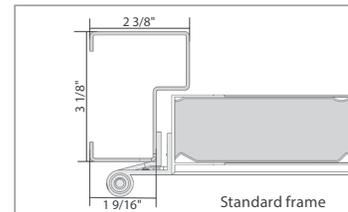
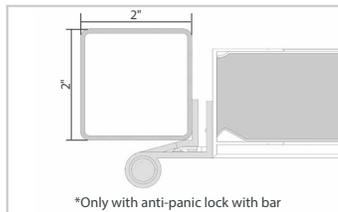
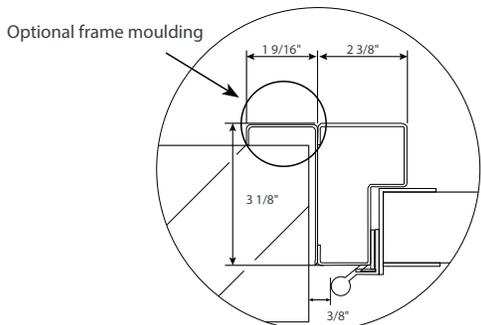


Consult factory for oversized doors.

## SIDE DOORS FITTING AND OPENING OPTIONS



Frame dimensions

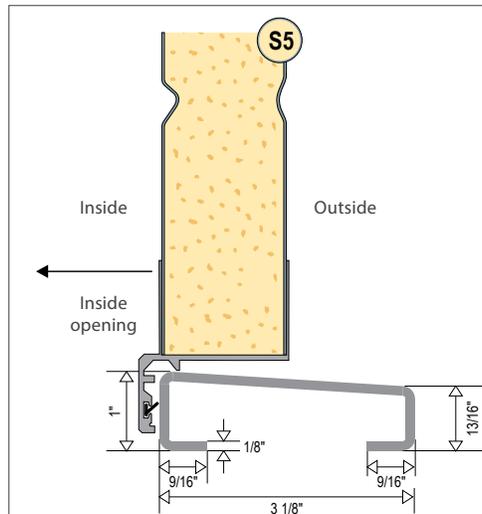
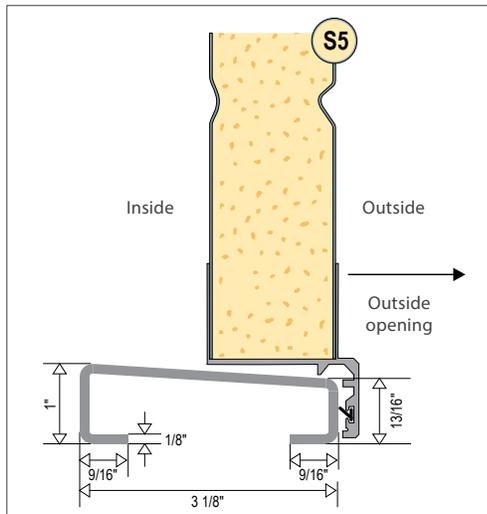
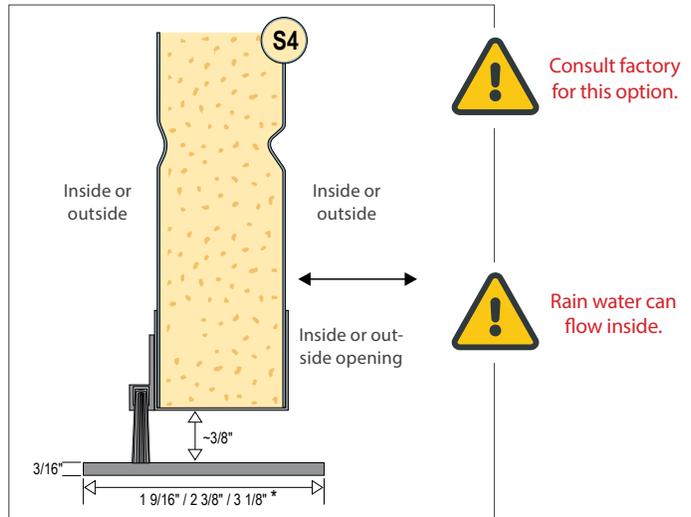
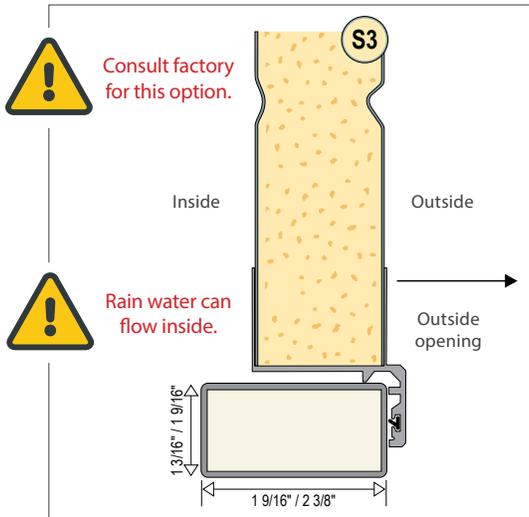
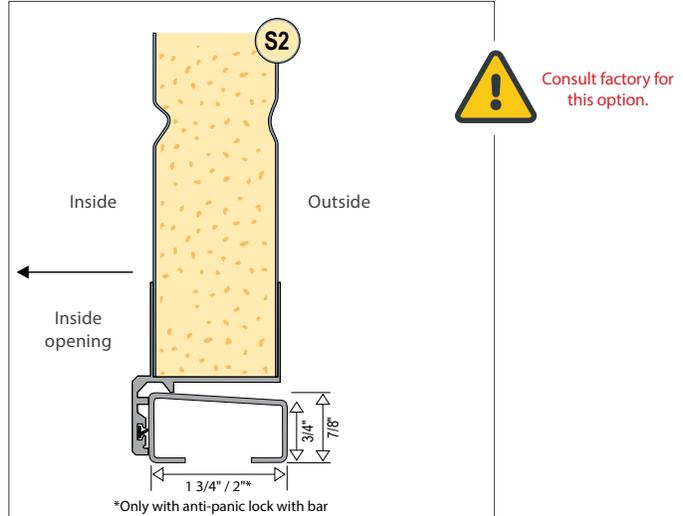
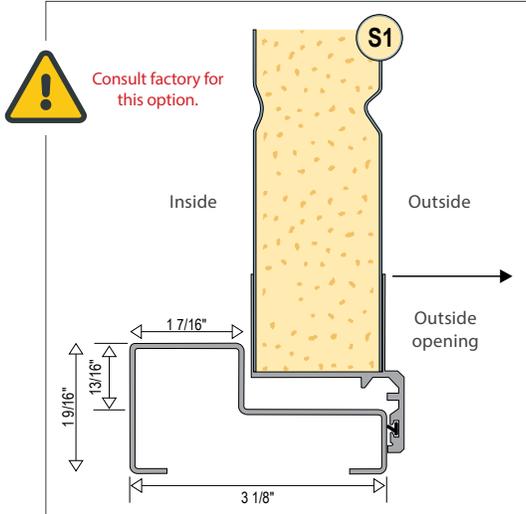


\*With threshold S5 side door frame from tube 3 1/8"x1 9/16".



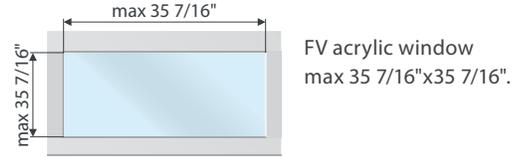
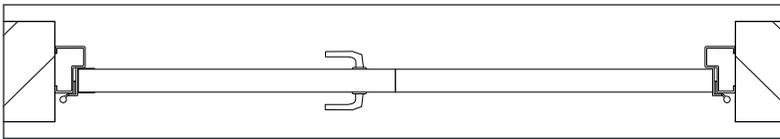
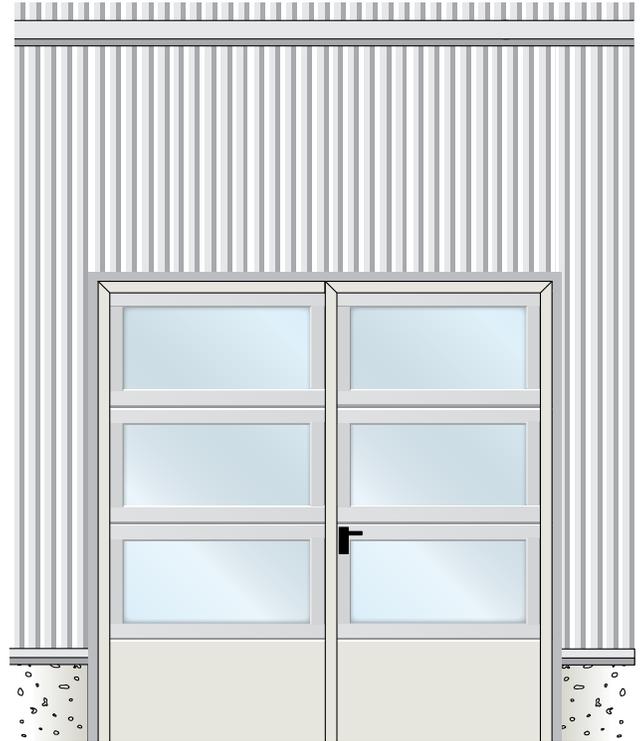
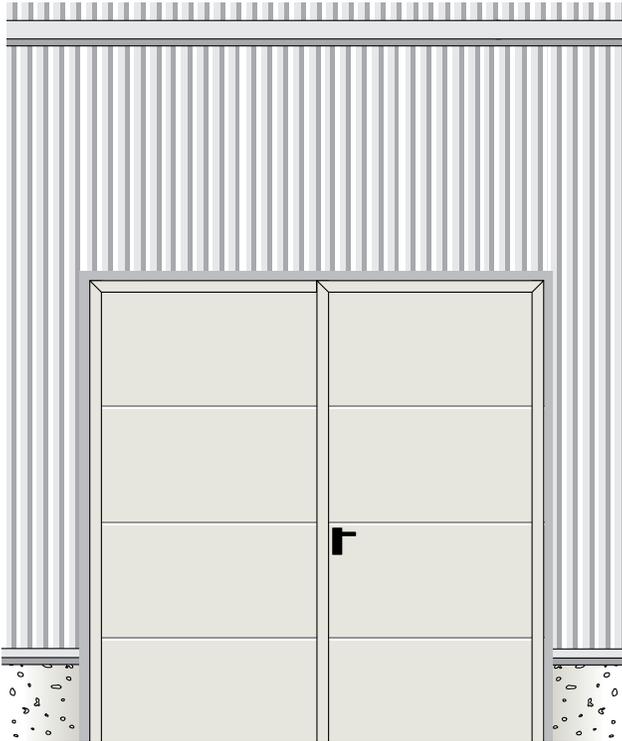
Tolerance of 3/8" in width and height will be deducted from structural opening sizes given.

## SIDE DOORS THRESHOLD TYPES

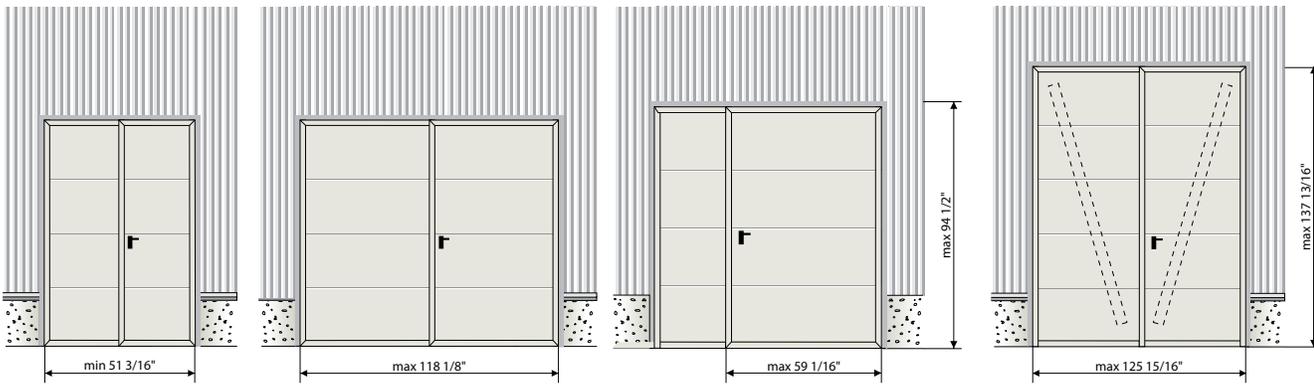


\*Depends on door frame option

All dimensions are given in millimeters (mm).



Two leaf doors are recommended when the opening is wider than 51 3/16\".



On request



Consult factory for oversized doors.

## HANDLE OPTIONS



Black handle  
22050



White handle  
22050

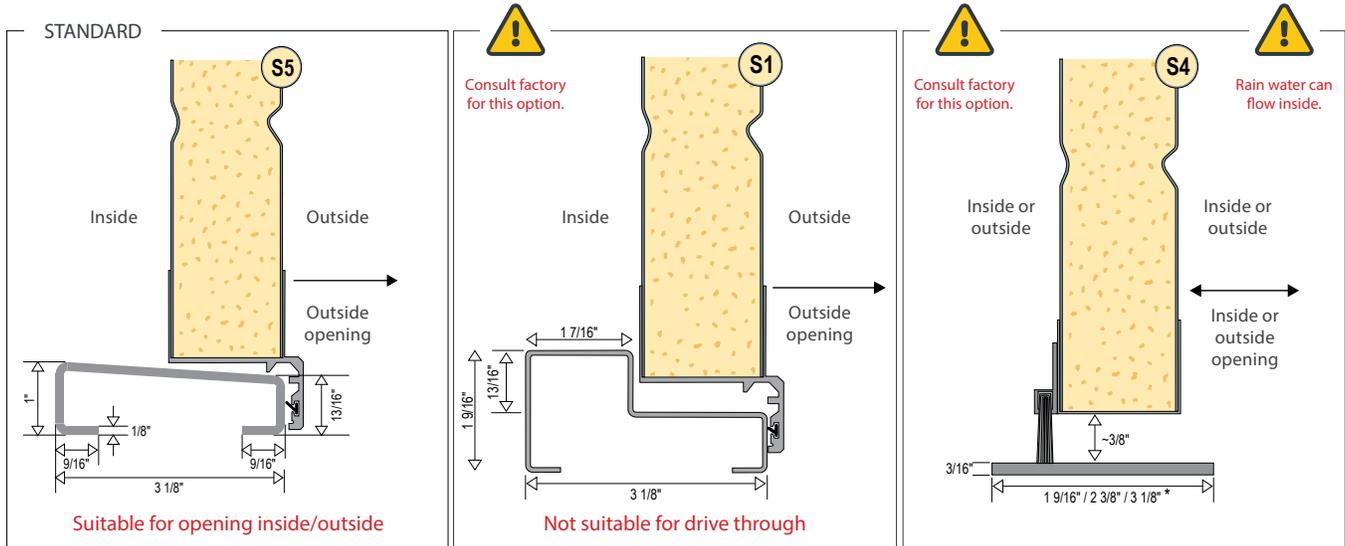
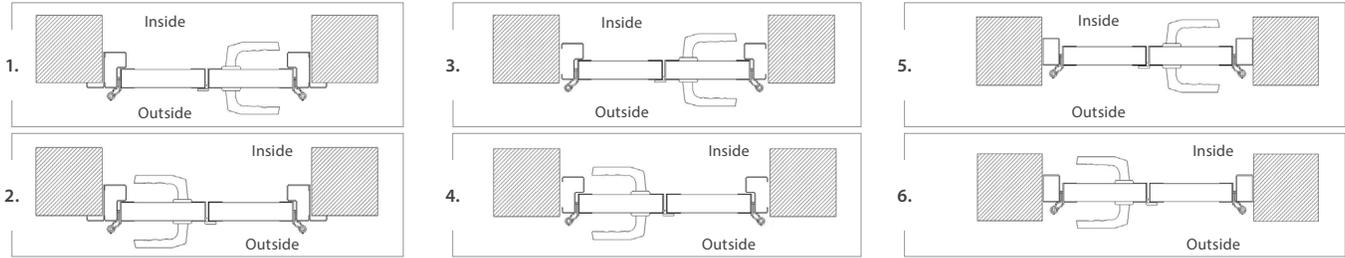


Silver handle  
22050



Fixed knob  
(optional)  
22046

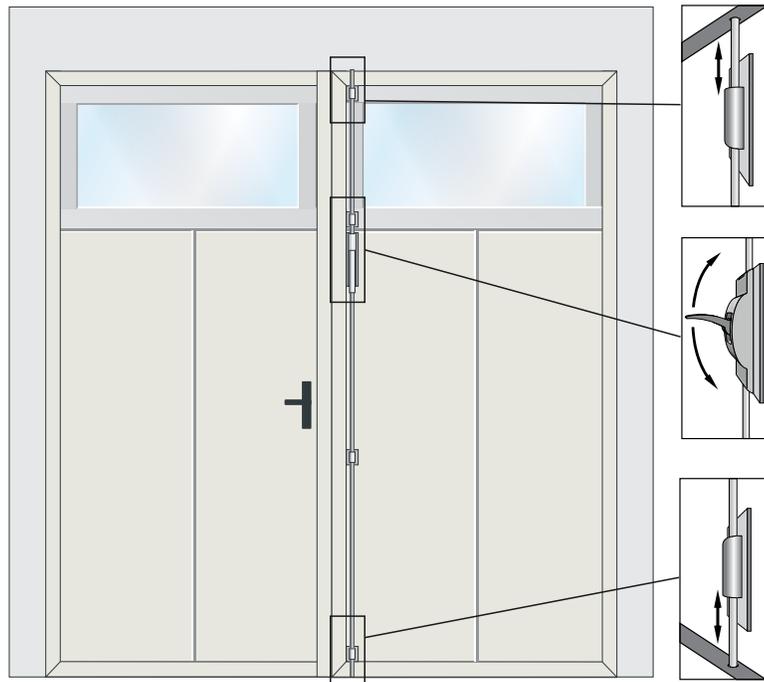
## SH2 OPENING AND HANDLING OPTIONS



\*Depends on door frame option

## LOCKING OPTIONS AND DOOR STAYS

Espagnolette lock (optional).



Door stays (pr. Door leaf 27 9/16" <. Opening 90° / 110° (optional).



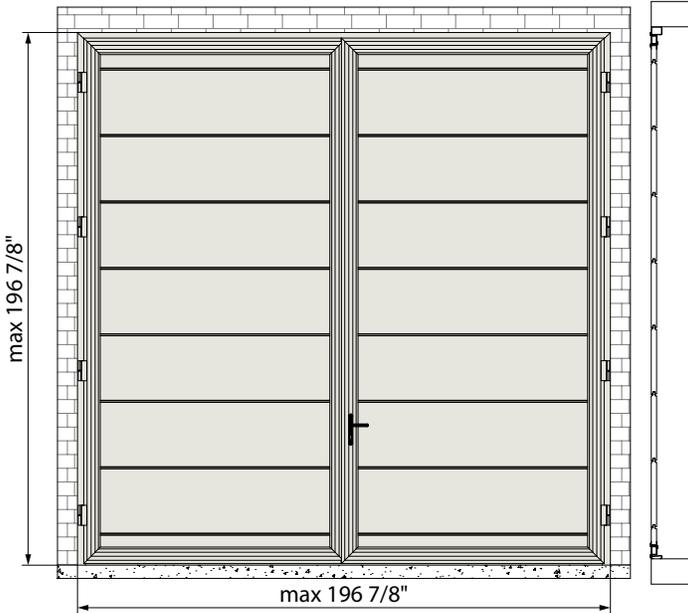
Locking of the fixed door leaf. Top / bottom (standard).



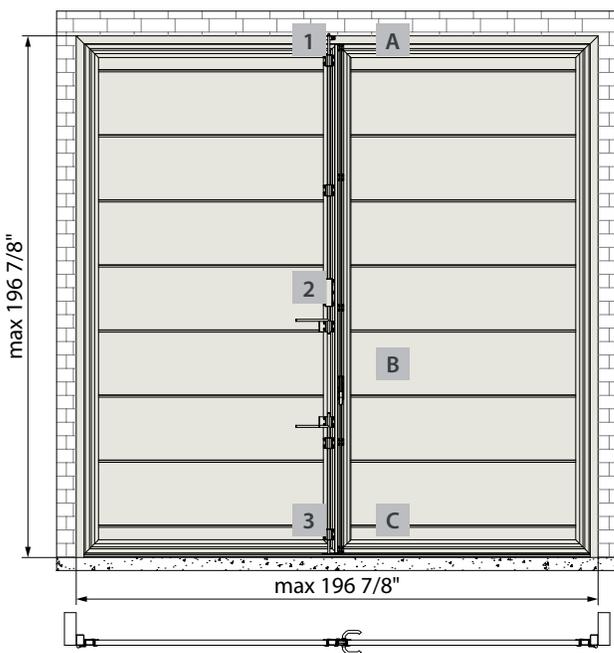
Shoot bolt for leaf fixation (optional).



## OUTSIDE VIEW



## INSIDE VIEW



## HANDLE OPTIONS



Black handle  
22050



White handle  
22050

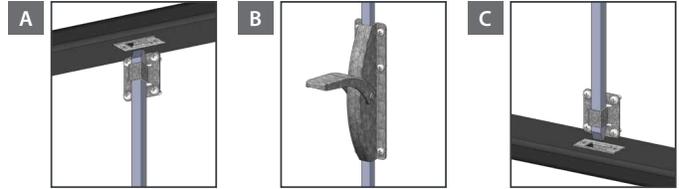


Silver handle  
22050

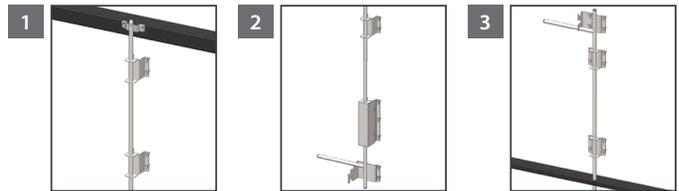


Fixed knob  
(optional)  
22046

## Espagnolette



## Heavy duty locking latches



## STANDARD COLORS



\*RAL 9005 in Woodgrain only.

## STANDARD OPTIONS

Inside locking:  
Espagnolette ≤ 137 13/16" (height)  
Heavy duty locking latches 137 7/8"-196 7/8" (height)

Assembly on site frame

Horizontal panel layout

Rib & Macrorib panels, standard TLP colours

Anodized aluminium profiles

Threshold S4 or S5 (check 43 pg.)

Safety pins

## ADDITIONAL OPTIONS

Locking from outside 1-point lock  
(effective ≤ 106 5/16") (height)

Door stay shoot bolts

3-point lock (effective ≤ 118 1/8") (height)

Vertical panel layout

Painted profiles

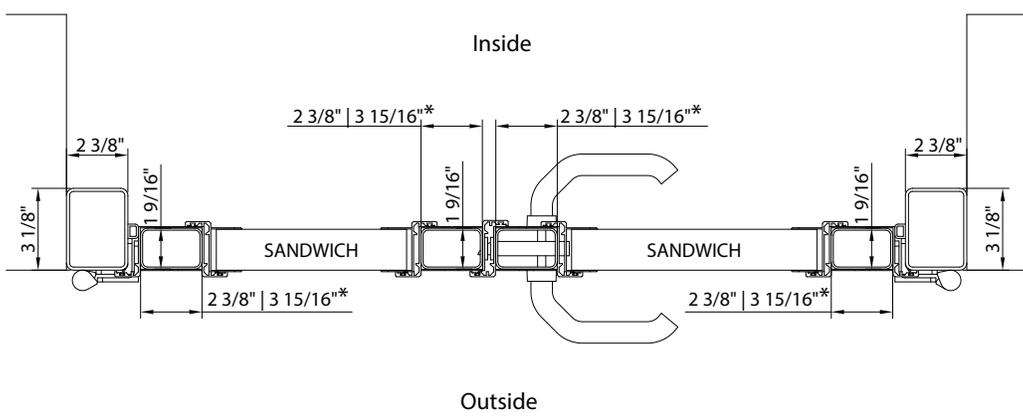
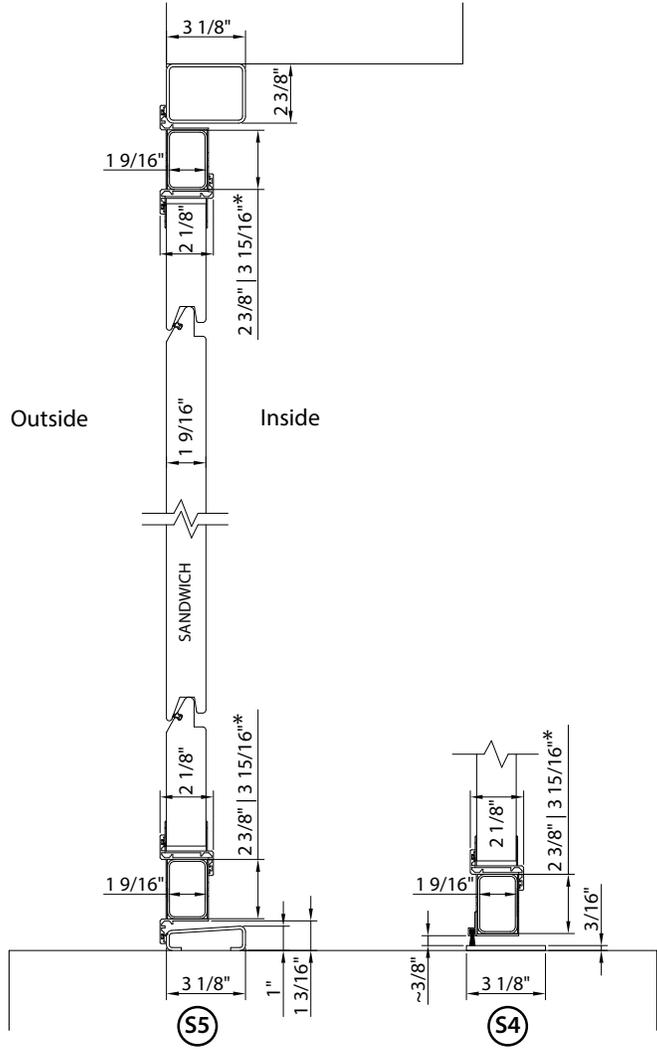
Wicket door

FV, TLT panels

Windows

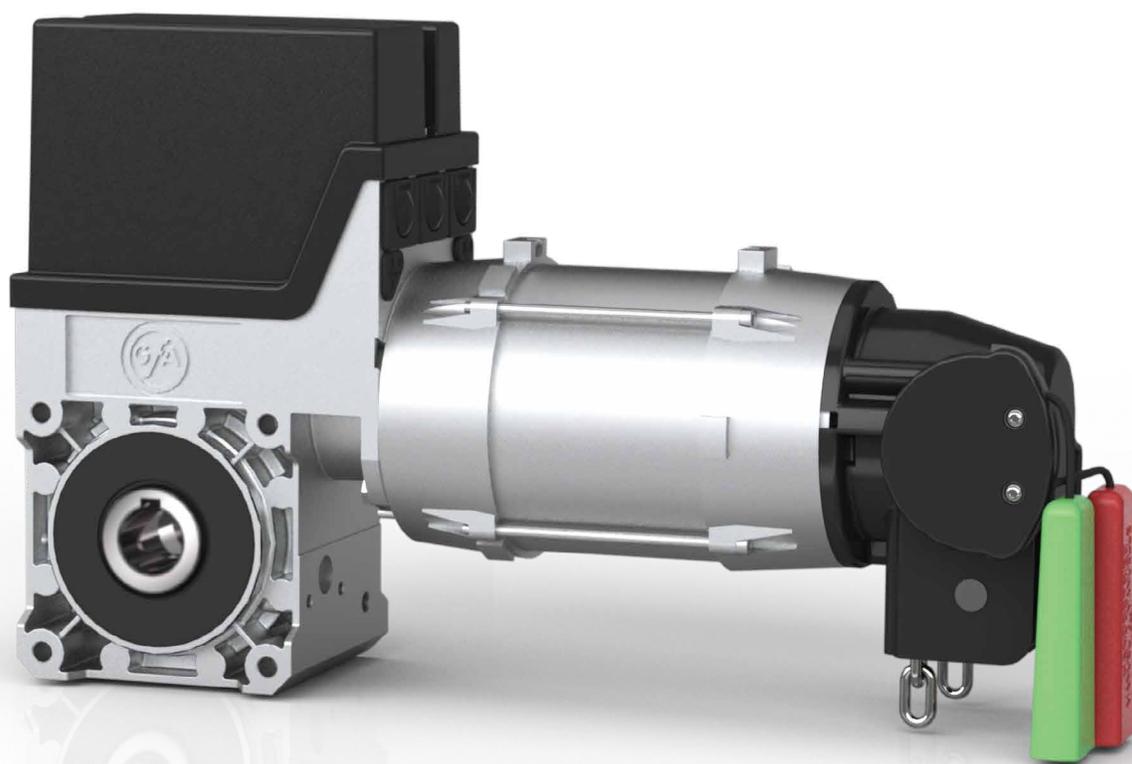
For the prices, check the **Industrial doors pricelist**.

**FRAME PROFILE CROSS - CUT VIEW**

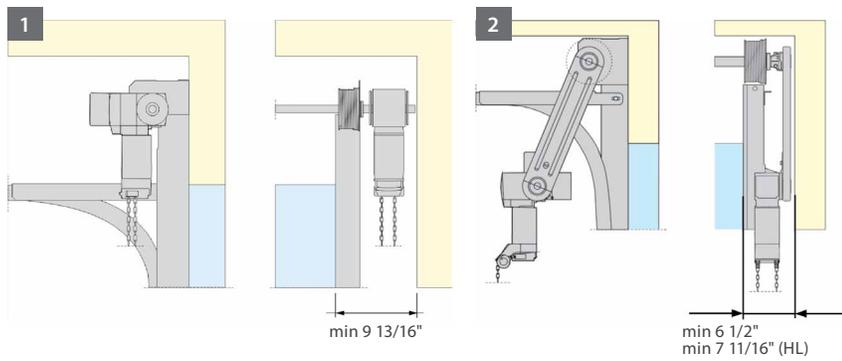


\* $3 \frac{15}{16}" \times 1 \frac{9}{16}"$  with 3-point lock.

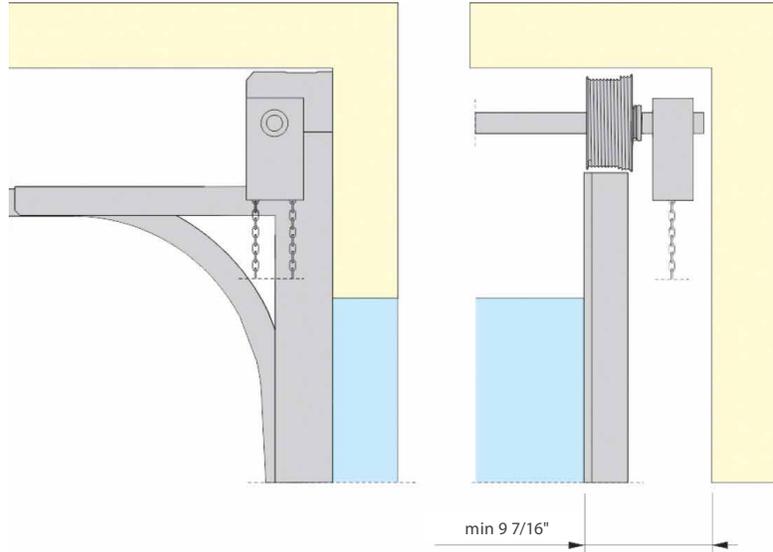
# OPERATORS



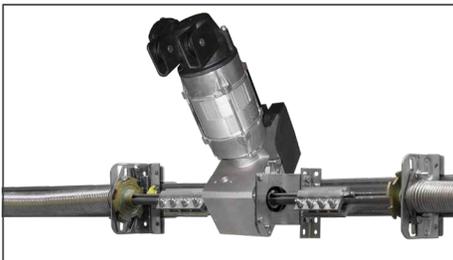
## SIDE FIXING



## CHAIN HOIST



## CENTER FIXING



Door height	h	F
$H \leq 118 \frac{1}{8}"$	22 13/16"	2"
$118 \frac{1}{8}" < H \leq 198"$	24 7/16"	2"
$198" < H \leq 236 \frac{1}{4}"$	27 9/16"	2"
$H > 236 \frac{1}{4}"$ on request		

