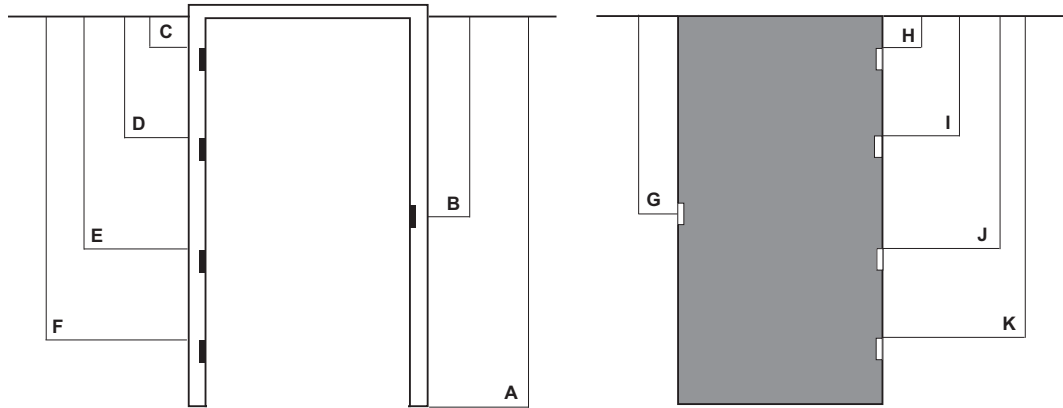


STANDARD HARDWARE LOCATIONS TOP TO TOP

TECHNICAL DATA SHEET No. 509



ALL DIMENSIONS ARE TOP DOWN

4 - 1/2" HINGES ONLY!

* Effective 7-15-15

Nom Size	# Hinges	Frame Dims					Door Dims				
		Top-Down Lock CL	Top-Top Down to Hinge				Top-Down Lock CL	Top-Top Down to Hinge			
A		B	C	D	E	F	G	H	I	J	K
6'6"	3	37-11/16	5	34-1/4	63-1/2		37 9/16	4 7/8	34-1/8	63-3/8	
6'8" *	3	39-11/16	5	35-1/4	65-1/2		39 9/16	4 7/8	35-1/8	65-3/8	
6'10"	3	41-11/16	5	36-1/4	67-1/2		41 9/16	4 7/8	36-1/8	67-3/8	
7'0" *	3	43-11/16	5	37-1/4	69-1/2		43 9/16	4 7/8	37-1/8	69-3/8	
7'2"	3	45-11/16	5	38-1/4	71-1/2		45 9/16	4 7/8	38-1/8	71-3/8	
7'4"	3	47-11/16	5	39-1/4	73-1/2		47 9/16	4 7/8	39-1/8	73-3/8	
7'6"	3	49-11/16	5	40-1/4	75-1/2		49 9/16	4 7/8	40-1/8	75-3/8	
7'8"	4	51-11/16	5	29-5/32	53-21/64	77-1/2	51 9/16	4 7/8	29-1/32	53-13/64	77-3/8
7'10"	4	53-11/16	5	29-53/64	54-21/32	79-1/2	53 9/16	4 7/8	29-45/64	54-17/32	79-3/8
8'0"	4	55-11/16	5	30-1/2	56	81-1/2	55 9/16	4 7/8	30-3/8	55-7/8	81-3/8

6' 8" & 7' 0" Hinge Spacing

** Prior to 7-15-15

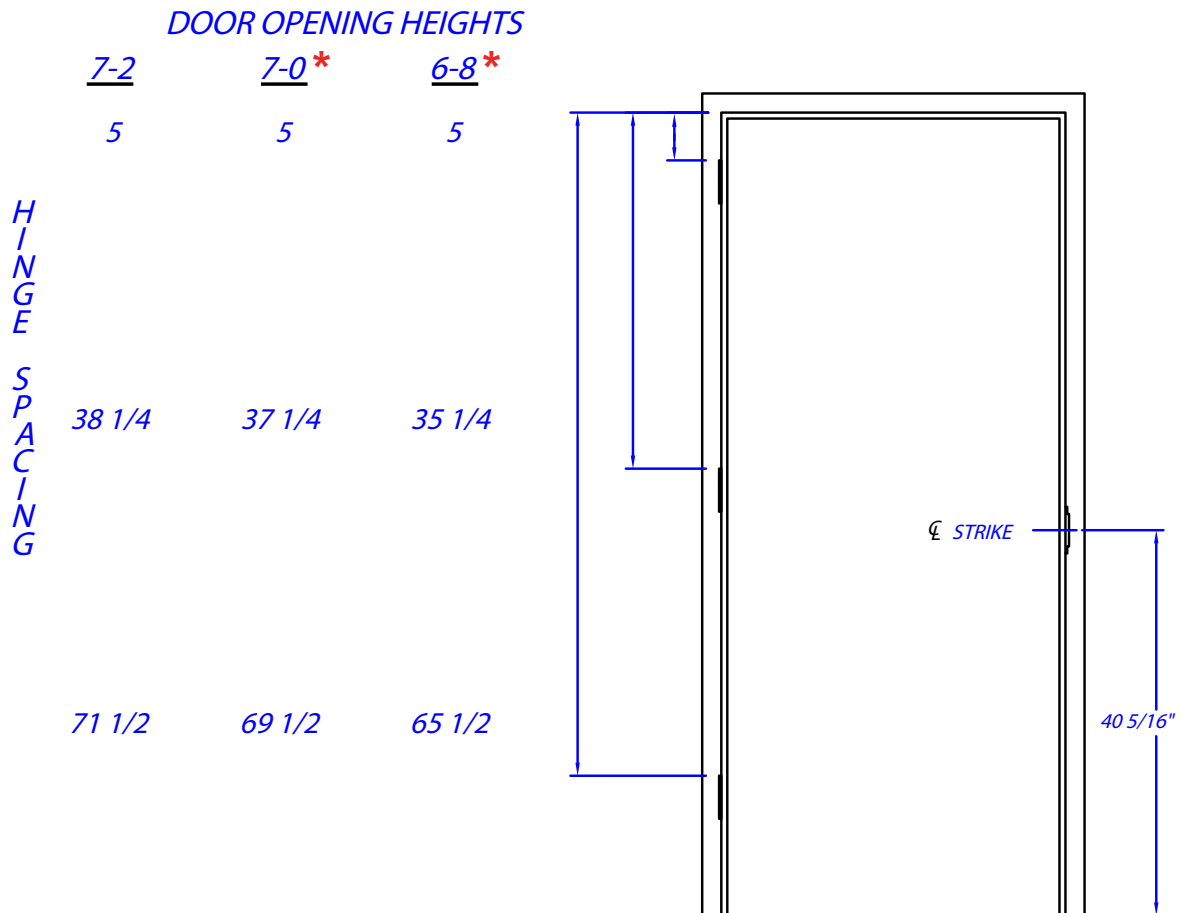
Nom Size	# Hinges	Frame Dims					Door Dims				
		Top-Down Lock CL	Top-Top Down to Hinge				Top-Down Lock CL	Top-Top Down to Hinge			
A		B	C	D	E	F	G	H	I	J	K
6'8" **	3	39-11/16	7.5	37-7/16	67-3/8		39 9/16	7 3/8	37-5/16	67-1/4	
7'0" **	3	43-11/16	9.5	39-7/16	69-3/8		43 9/16	9 3/8	39-5/16	69-1/4	

Revised 6/15

STANDARD HARDWARE LOCATIONS FOR DOOR FRAMES

6-8, 7-0 & 7-2 Heights with 4-1/2" Hinges

**Hinge locations effective 7/15/15.
For prior hinge locations [click here](#).*

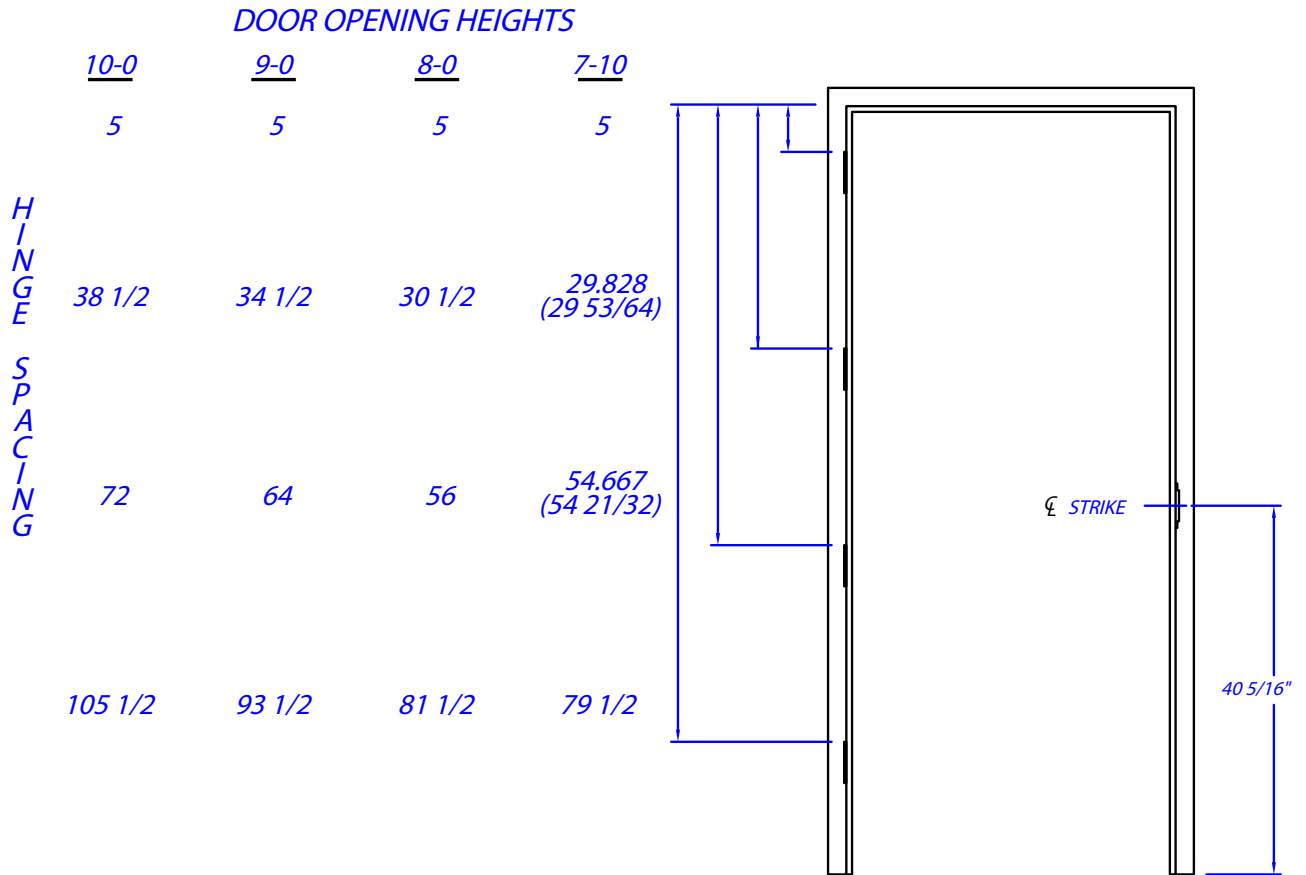


The hardware locations shown are for 1-3/4" door frames, for heights shown with 4-1/2" hinges, and will be furnished unless otherwise agreed to.

Revised 7/15

STANDARD HARDWARE LOCATIONS FOR DOOR FRAMES

7-10, 8-0, 9-0 & 10-0 Heights with 4-1/2" Hinges



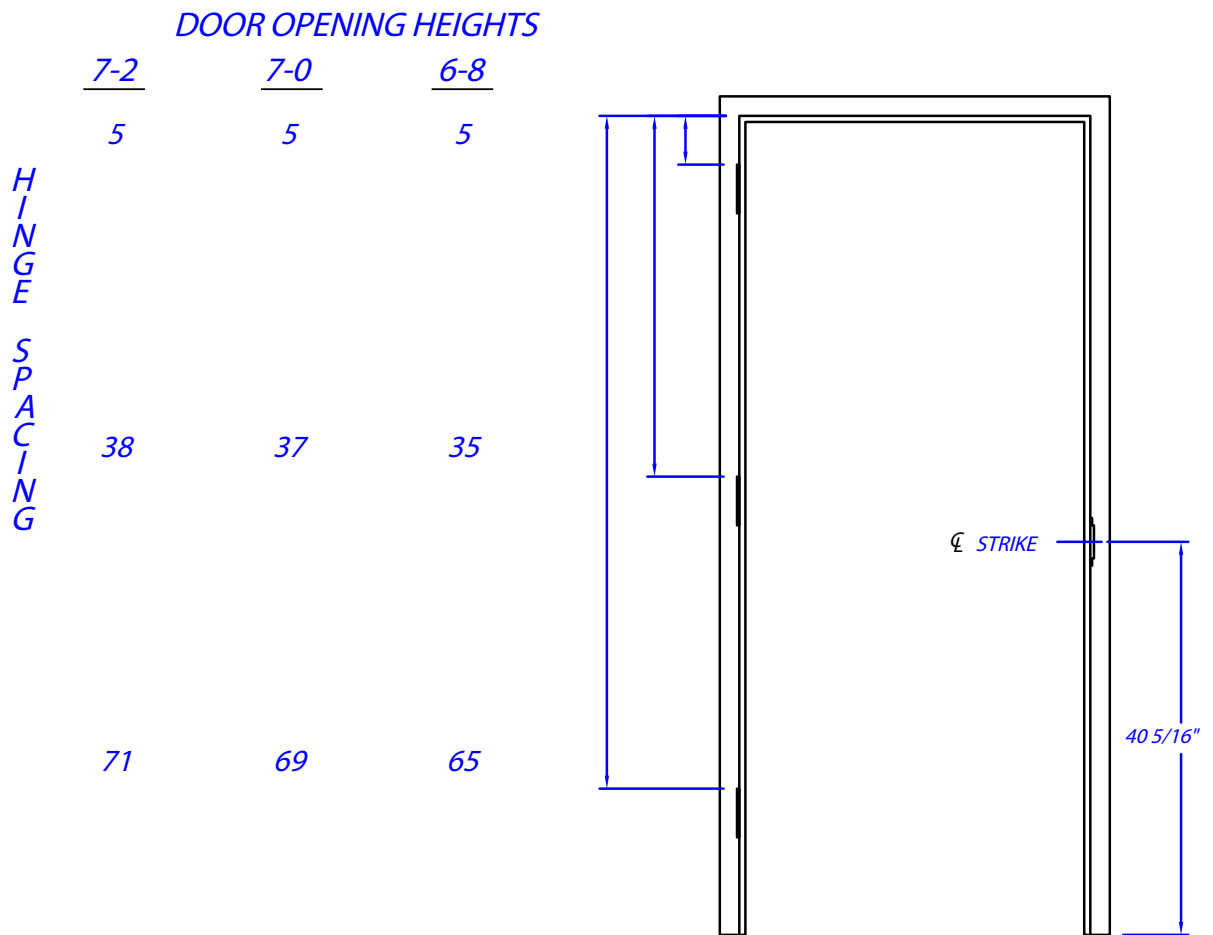
*53/64" represents a measurable approximation to .83".

The hardware locations shown are for 1-3/4" door frames, for heights shown with 4-1/2" hinges, and will be furnished unless otherwise agreed to.

Revised 8/16

STANDARD HARDWARE LOCATIONS FOR DOOR FRAMES

6-8, 7-0 & 7-2 Heights with 5" Hinges



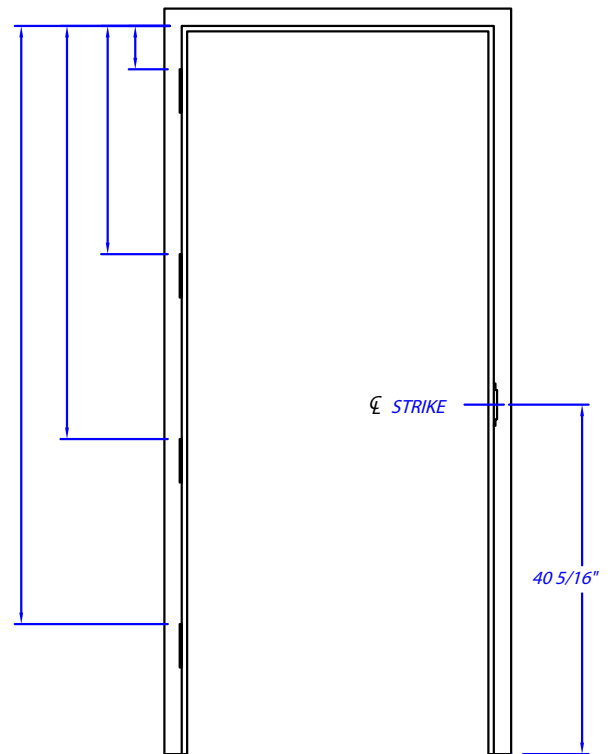
Revised 6/15

The hardware locations shown are for 1-3/4" door frames, for heights shown with 5" hinges, and will be furnished unless otherwise agreed to.

STANDARD HARDWARE LOCATIONS FOR DOOR FRAMES

7-10, 8-0, 9-0 & 10-0 Heights with 5" Hinges

		<i>DOOR OPENING HEIGHTS</i>			
		<u>10-0</u>	<u>9-0</u>	<u>8-0</u>	<u>7-10</u>
		5	5	5	5
<i>H I N G E S P A C I N G</i>	<i>H I N G E</i>	38.328 (38 21/64)	34.328 (34 21/64)	30.328 (30 21/64)	29.672 (29 43/64)
	<i>S P A C I N G</i>	71.667 (71 21/32)	63.667 (63 21/32)	55.667 (55 21/32)	54.333 (54 21/64)
		105	93	81	79



*21/64" represents a measurable approximation to .33".
*43/64" represents a measurable approximation to .66".

Revised 6/15

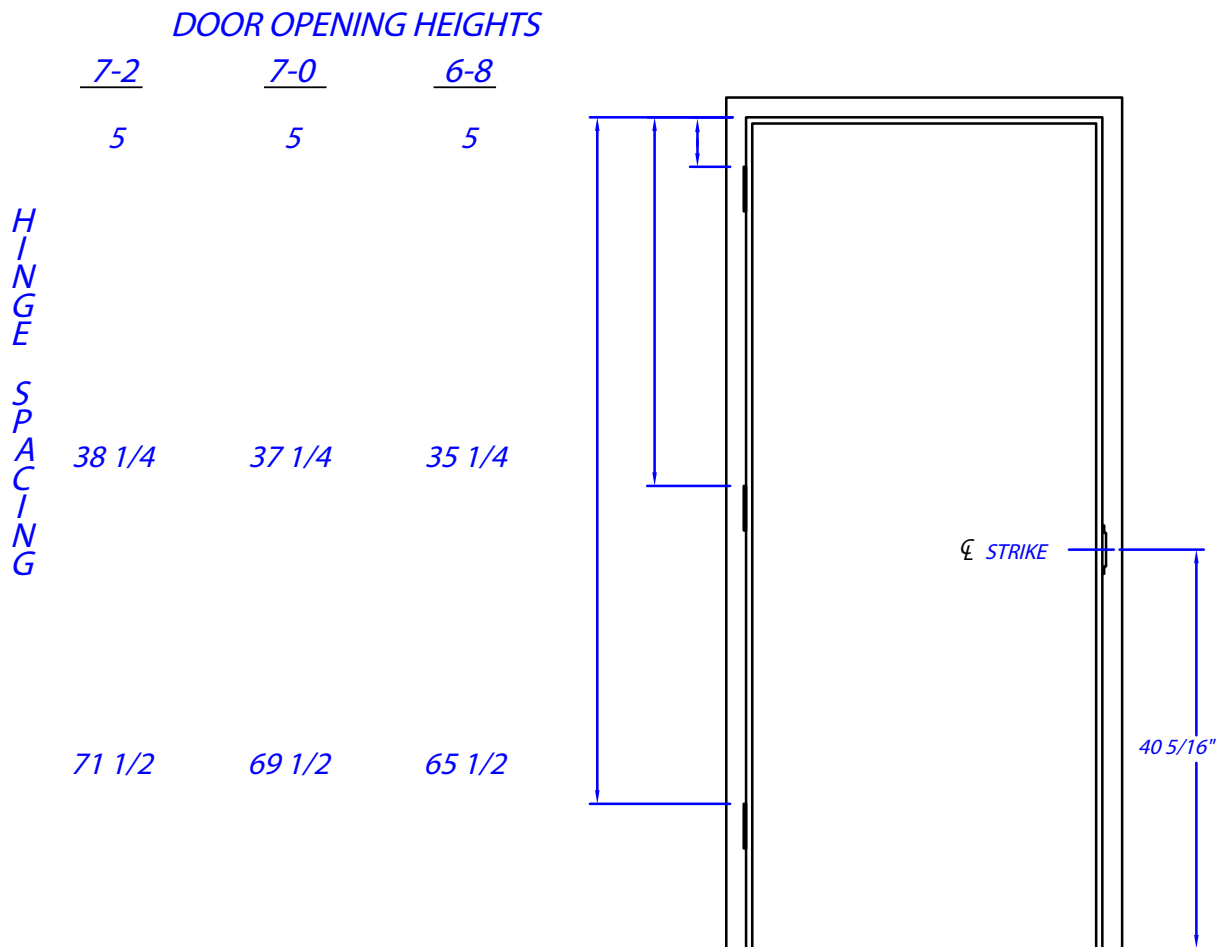
The hardware locations shown are for 1-3/4" door frames, for heights shown with 5" hinges, and will be furnished unless otherwise agreed to.

NAAMM ALTERNATE HARDWARE LOCATIONS FOR DOOR FRAMES

6-8, 7-0 & 7-2 Heights with 4-1/2" Hinges

HARDWARE LOCATIONS SHOWN ARE BASED ON THE FOLLOWING:

- 5" from header to top of upper hinge.
- 10" from bottom of jamb to bottom of lower hinge.
- Equal spacing between intermediate hinges.



The above 4-1/2" hardware locations will be furnished only when agreed to.

Revised 6/15

NAAMM ALTERNATE HARDWARE LOCATIONS FOR DOOR FRAMES

TECHNICAL DATA SHEET No. 515

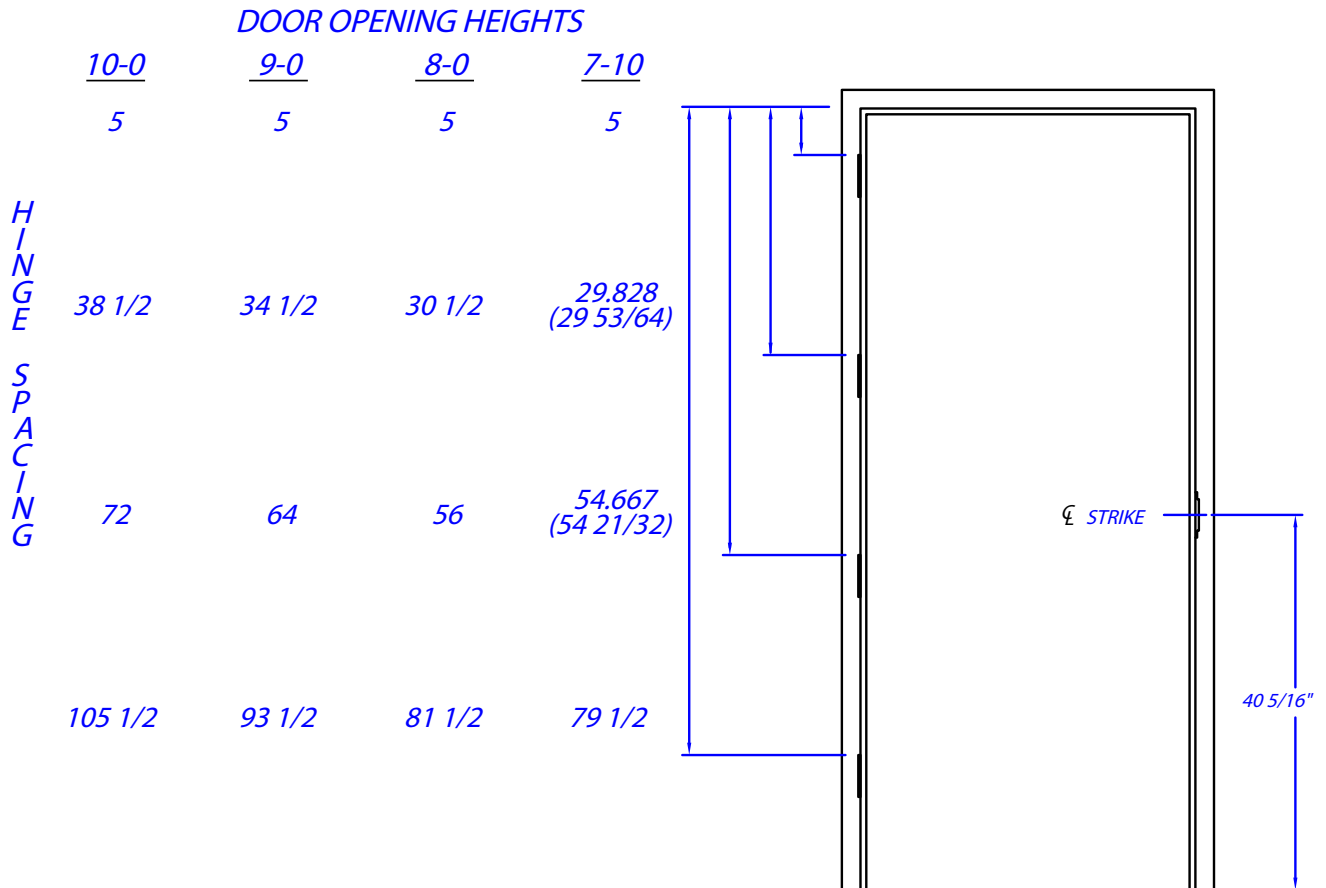
7-10, 8-0, 9-0 & 10-0 Heights with 4-1/2" Hinges

HARDWARE LOCATIONS SHOWN ARE BASED ON THE FOLLOWING:

5" from header to top of upper hinge.

10" from bottom of jamb to bottom of lower hinge.

Equal spacing between intermediate hinges.



*53/64" represents a measurable approximation to .83".

The above 4-1/2" hardware locations will be furnished only when agreed to.

Revised 8/16

NAAMM ALTERNATE HARDWARE LOCATIONS FOR DOOR FRAMES

TECHNICAL DATA SHEET No. 516

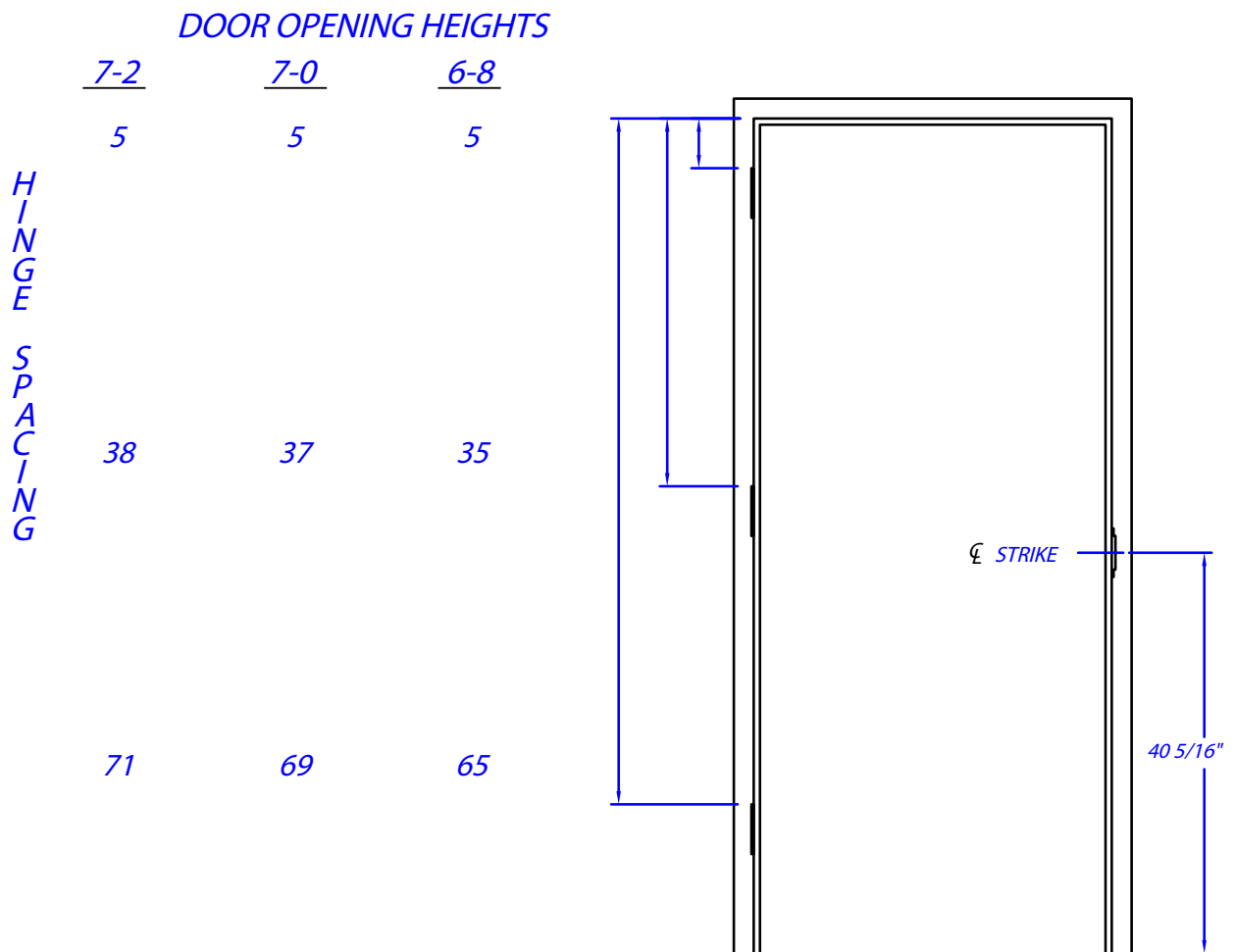
6-8, 7-0 & 7-2 Heights with 5" Hinges

HARDWARE LOCATIONS SHOWN ARE BASED ON THE FOLLOWING:

5" from header to top of upper hinge.

10" from bottom of jamb to bottom of lower hinge.

Equal spacing between intermediate hinges.



The above 5" hardware locations will be furnished only when agreed to.

Revised 6/15

NAAMM ALTERNATE HARDWARE LOCATIONS FOR DOOR FRAMES

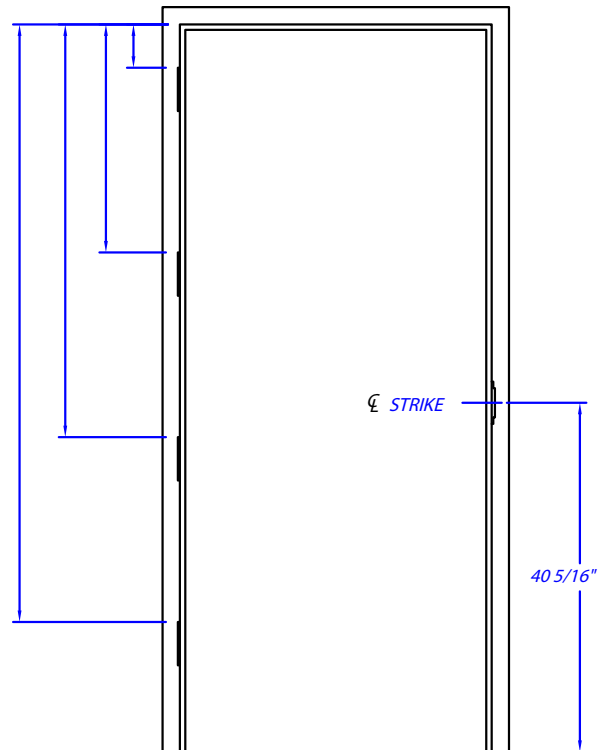
TECHNICAL DATA SHEET No. 517

7-10, 8-0, 9-0 & 10-0 Heights with 5" Hinges

HARDWARE LOCATIONS SHOWN ARE BASED ON THE FOLLOWING:

- 5" from header to top of upper hinge.
- 10" from bottom of jamb to bottom of lower hinge.
- Equal spacing between intermediate hinges.

<i>DOOR OPENING HEIGHTS</i>				
	<u>10-0</u>	<u>9-0</u>	<u>8-0</u>	<u>7-10</u>
	5	5	5	5
<i>H I N G E</i>	38.328 (38 21/64)	34.328 (34 21/64)	30.328 (30 21/64)	29.672 (29 43/64)
<i>S P A C I N G</i>	71.667 (71 21/32)	63.667 (63 21/32)	55.667 (55 21/32)	54.333 (54 21/64)
	105	93	81	79



*21/64" represents a measurable approximation to .33".
*43/64" represents a measurable approximation to .66".

The above 5" hardware locations will be furnished only when agreed to.

Revised 6/15