



# **MX3 MRL**

**MID-RISE and LOW-RISE  
SOLUTION**

**Planning Guide**

**Designed By the Field for  
the Field**

***For more information, please visit our website***

***[Avtbeckett.com](http://Avtbeckett.com)***



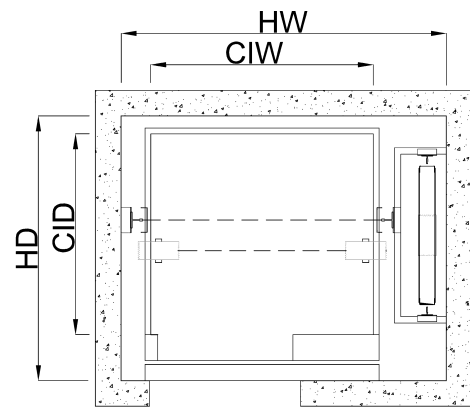
# MX3 INTRODUCTION

**MX3 – A New MRL!** AVT has reimagined elevator solutions with a state-of-the-art design for low- to mid-rise buildings. From planning to installation, AVT has simplified the process while ensuring reliability.

**Benefits of the MX3:** A modern design inside and out, featuring improved installation times, in-wall controls, sleek interiors, and energy efficiency. MX3 enhances performance, reliability, and safety. Additionally, an extensive pre-planning guide has been developed to assist with construction requirements from start to finish, ensuring a seamless process.

AVT's **Engineering** team has developed innovative designs featuring a smaller footprint, a lighter elevator, and rail-mounted loads, among many other advancements. All components and packages are pre-engineered for efficiency and compliance with CSA B44/ASME A17.1 requirements.

## HOISTWAY SIZES & DIMENSIONS



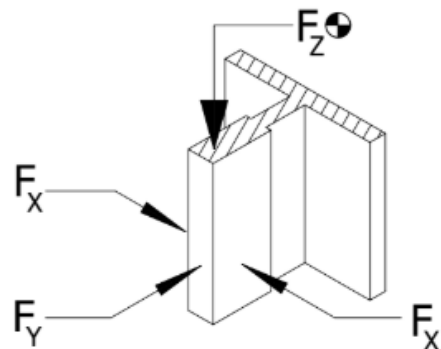
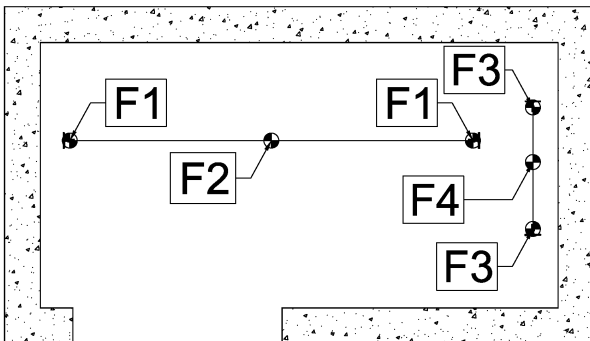
Type	Capacity	HW	HD	CIW	CID
Pass Service	2100 Lbs	7'11"	5'9" 6'7"	5'8"	4'5"
Pass Service	2500 Lbs	8'3"	6'3" 7'2"	6'	4'11"
Pass	2500 Lbs	9'	5'9"	6'7"	4'5"
Pass Service	3000 Lbs	8'3"	6'11" 7'9"	6'	5'7"
Pass Service	3500 Lbs	8'3"	7'7" 8'5"	6'	6'3"

**Pass** Cars noted in red are stretcher compliant, 2500 Lb Canada, 3500 Lb United States  
Add 4" for each Additional Hoistway Width

Speed	OH	PIT	Speed	OH	PIT	Speed	OH	PIT
150 -200 Fpm	12'10"	5'	250 Fpm	13'	5'6"	350 Fpm	13'6"	5'6"

## PIT & RAIL REACTIONS

LBS	FPM	FORCE (kN)				CWT RAIL (kN)			CAR RAIL (kN)		
CAPACITY	SPEED	F1	F2	F3	F4	FX	Fy	Fz	FX	Fy	Fz
2100	150-350	68.1	116	60.8	98.	0.8	0.8	60.8	0.5	1.4	68.1
2500	150-350	73.1	129	64.8	107	0.8	0.8	64.8	0.6	1.7	73.1
3000	150-350	77.1	143	69.8	112	0.8	0.8	69.8	0.8	1.8	77.1
3500	150-350	86.1	156	73.8	125	0.8	0.8	73.8	0.9	2.0	86.1



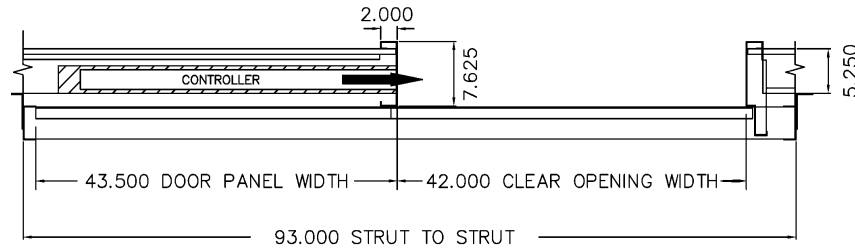
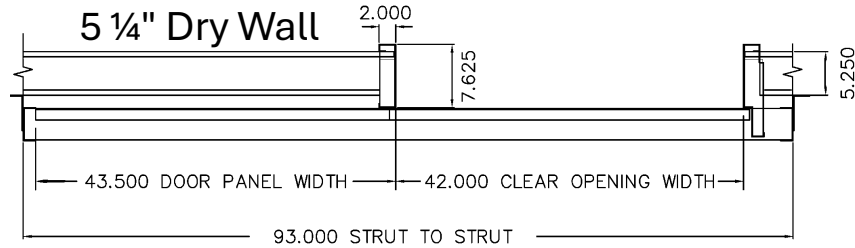
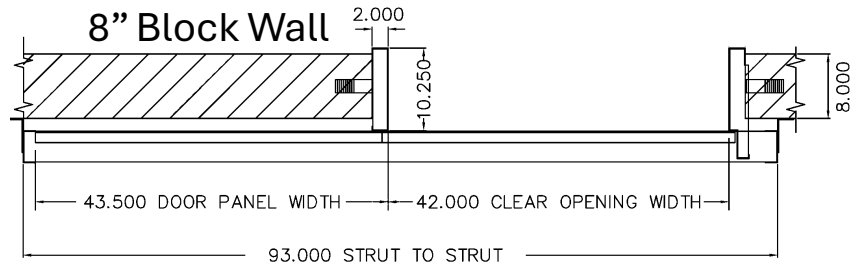
# Door Frame Options

## NTR Entrances

Preset holes for all components, eliminates the need for a *tape measure*.

- 1.5 HR UL Rating
- 8" Block wall
- 5 1/4" Drywall
- Stainless Steel
- Prime paint
- Color paint

The simplest door frame on the market to assemble and install!



## In Jamb Controller

For a true Machine-Roomless design; controller conveniently integrated with the jamb of the top entrance.

## Featherlight Interiors

AVT's Featherlight interiors provide a sleek, modern design, while maximizing the space inside your cab with its low-profile panels. Available with PLAM and metal panel finishes.



VX-1

- Aluminum panels
- Lightweight
- Brushed #4 finishes
- Stainless steel reveals
- Laminate or metal panel finishes
- LED lights
- Low-profile ceiling for added clear height
- Concealed ventilation
- Quick installation
- 1.5" round handrails

# MACHINE AND MOTOR DATA

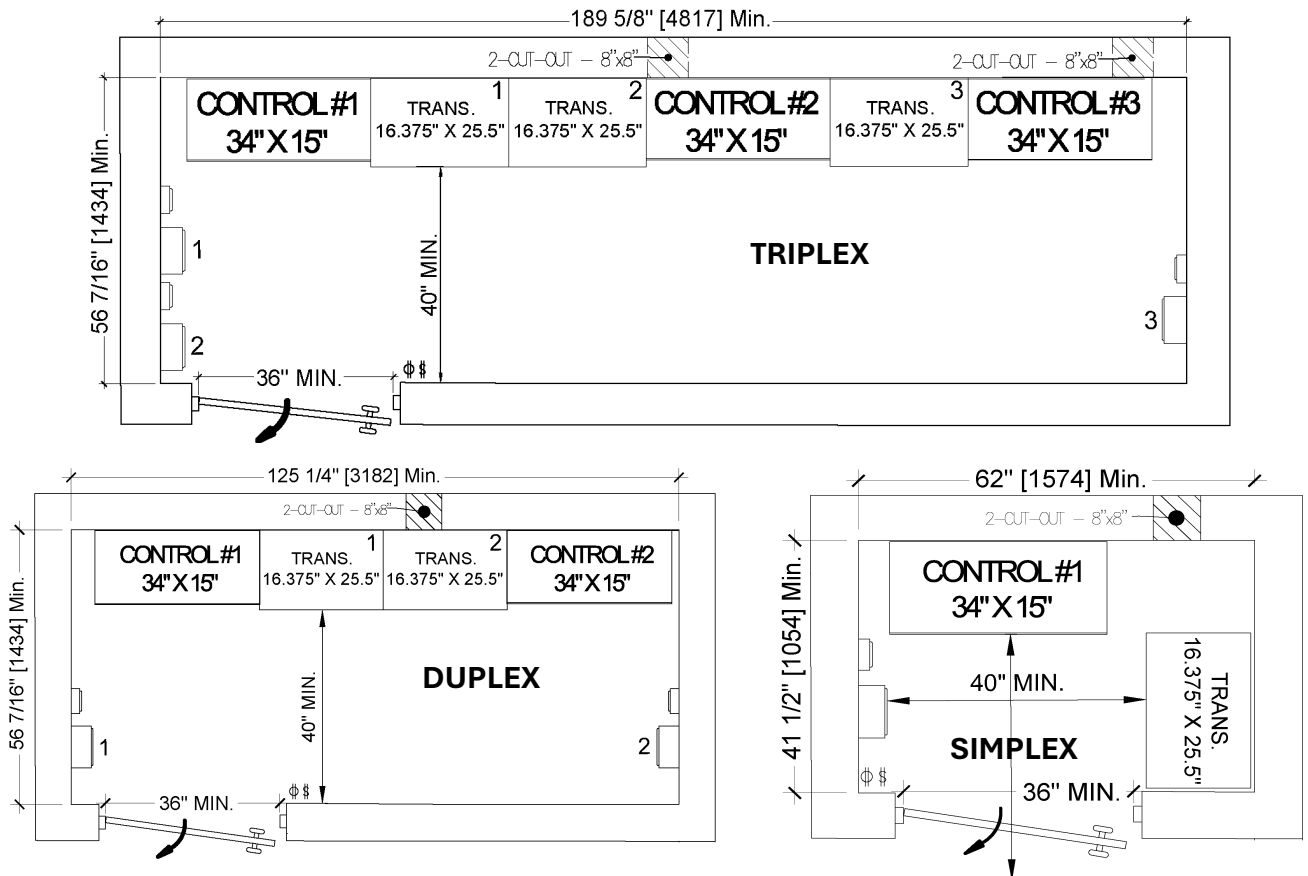
## AK6 DUTY TABLES

### PASSENGER CAR

### SERVICE CAR

CAPACITY (P) LBS	Empty Car Weight (Q)	SPEED FPM	RPM	FLA (Amps)	Kw - HP	CAPACITY (P) LBS	Empty Car Weight (Q)	SPEED FPM	RPM	FLA (Amps)	Kw - HP
2100	2891	150	91	15.7	4.4	2100	3443	150	91	15.7	4.4
		200	121	16.8	5.9			200	121	16.8	5.9
		250	152	19.6	7.4			250	152	19.6	7.4
		350	212	25.9	10.4			350	212	25.9	10.4
2500	3078 LBS	150	91	18.7	5.3	2500	3651	150	91	18.7	5.3
		200	121	19.9	7.0			200	121	19.9	7.0
		250	152	23.4	8.8			250	152	23.4	8.8
		350	212	30.8	12.3			350	212	30.8	12.3
3000	3167	150	91	22.4	6.3	3000	3762	150	91	22.4	6.3
		200	121	23.9	8.5			200	121	23.9	8.5
		250	152	28.1	10.6			250	152	28.1	10.6
		350	212	37.0	14.8			350	212	37.0	14.8
3500	3343	150	91	26.2	7.4	3500	4016	150	91	26.2	7.4
		200	121	27.9	9.9			200	121	27.9	9.9
		250	152	32.7	12.3			250	152	32.7	12.3
		350	212	43.1	17.3			350	212	43.1	17.3

## STANDARD MACHINE ROOM OPTIONS



The measurements provided serve as general guidelines; specific requirements may vary based on site conditions and local codes. Please contact an AVT sales representative for detailed specifications. Machine room options may also vary depending on site location and available space.