Online Planning Guide

Elevators, Escalators and Moving Walks

ThyssenKrupp Elevator Americas

ThyssenKrupp

Our Commitment To You

Uncompromised Quality.

Excellence is a standard feature on ThyssenKrupp Elevators and the reason is simple. At ThyssenKrupp, there is no detail too small to go unnoticed or untested. We pay attention to every component of our systems and inspect every piece of raw material that arrives at our U.S. manufacturing facilities. If a component does not pass our rigorous standards, it never enters our facility. And, our testing continues far past receiving. That's only the beginning of hundreds of tests each element must pass before it becomes a part of one of the best built, most dependable elevator systems in the world. A ThyssenKrupp Elevator. The highest quality – with no compromise.

When you choose ThyssenKrupp Elevator for your projects, you get a vertical transportation system that will provide years of trouble-free service because it was designed, manufactured, assembled and installed by highly skilled craftsmen. We're very proud of our people. And our products. And we believe in quality from the ground up.

That's why we still manufacture our products and components in the United States, just as we have for over a hundred years. Since 1860, we have manufactured, installed and maintained elevator and escalator products that our customers can count on.

Creating a Partnership.

A powerful combination of ThyssenKrupp dependable products, innovative technology and superior customer relationships is the signature of ThyssenKrupp Elevator. Throughout the process, from design to installation to maintenance, we remain flexible to meet the unique specifications and requirements of each customer. We welcome the opportunity to be involved with the architect and general contractor from the beginning of each project and see it through to completion. The result is a long-standing partnership and a legacy of success.

Virtual Exploration.

ThyssenKrupp Elevator's website www.thyssenkruppelevator.com is a valuable interactive resource for vertical transportation equipment. It provides a complete showcase of the quality products and services available from ThyssenKrupp Elevator. It is the home to Architect Direct **Pro**, a free design service providing instant access to CAD drawings and specification documents for all of our standard Oildraulic®, Traction & Machine Room-Less product lines.

While you are visiting www.thyssenkruppelevator.com, take a tour! Discover TKCity, a virtual metropolis of showcase projects featuring ThyssenKrupp Elevator's vertical transportation equipment. From the largest, tallest and fastest to the most unique designs, you can rest assured that with ThyssenKrupp Elevator, you are backed by a global community that puts customer service at the forefront of all we do.

ThyssenKrupp Elevator is a full line manufacturer of vertical transportation equipment, including Oildraulic®, Traction Geared & Gearless, and Machine Room-Less elevators, as well as escalators and moving walks. As today's construction industry moves toward greater sustainability, ThyssenKrupp Elevator is committed to assessing our environmental footprint and developing sustainable business strategies while manufacturing the same quality products we are known for.

Oildraulic®: Early Invention to Today's Innovation

ThyssenKrupp's Oildraulic elevators have been the industry standard since 1937. In fact, we invented the hydraulic elevator. Supported and raised by powerful hydraulic jacks, our Oildraulic product line offers unchallenged operation, smooth acceleration and deceleration and accurate floor leveling. Building on a proven history in the Oildraulic market and moving toward sustainable solutions, we ventured to take our holeless hydraulic applications to new heights with our AMEE® Series. The AMEE Series encompasses our entire line of holeless systems, and offers a revolutionary 3-Stage Telescoping Jack that allows higher travel than previous holeless offerings.

Destination Dispatch™: Technology at Your Fingertips

In today's fast-paced society, people expect more intelligent technology than ever before. We committed ourselves to developing a product that will get passengers to their destinations faster and more conveniently, which led us to engineer Destination Dispatch™. Using lobby-mounted keypads or touch screens, Destination Dispatch reduces crowds by directing people to the elevator that will get them to their destination quicker, thereby reducing trip times and increasing handling capacity by up to 30%. Car loads are evened out and the number of stops is limited, making for greater operational efficiency.

MRL: Elevating the Possibilities

Machine Room-Less (MRL) technology has brought about rapid changes within the elevator industry. MRL systems have been in use internationally for many years, and are standard for low to mid-rise buildings in Europe and Asia. ThyssenKrupp Elevator is proud to offers a complete line of MRL products known as synergy™ to the North American market. synergy needs no machine room and has a hoistway that takes up less space than conventional traction elevators. In addition, architects and designers have more freedom to create an aesthetically pleasing interior.

By offering synergy, ThyssenKrupp generates a cascade of environmental advantages. Its permanent-magnet gearless machines, coupled with efficient drives in place of conventional geared machines, use less energy. The MRL design reduces energy for starting and running the elevator, while providing for more efficient and safe installation techniques and use of valuable building space. Great performance requires no machine room, only superior technology for the ever-increasing demands for energy-efficiency, flexibility and safety for every investment in your building.
To learn more about synergy, view the latest brochures at www.thyssenkruppelevator.com/mrl.asp.

Our Commitment to Business Sustainability

We are committed to identifying and addressing key social and environmental opportunities within our elevator business and implementing solutions for continuous improvement that create long term value to our employees, customers and stakeholders. This approach will result in positive and lasting fundamental cultural changes and sustainable, profitable growth within our organization. And, it's the path that will lead us toward being a more socially, environmentally and economically balanced organization.

SPF Traction Elevators
Passenger Applications

Features

Max Travel (T)
250'-0" (76200)

Max Landings
64

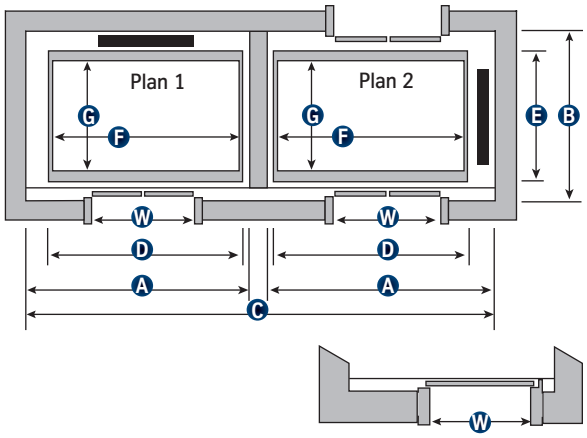
Speeds
200 fpm (1.0 m/s), 350 fpm (1.7 m/s), 450 fpm (2.2 m/s) & 500 fpm (2.5 m/s)

Cab Height (I)
7'-11" (2413) high

Entrance Height (J)
7'-0" (2134) high

Minimum Overhead (O)
See chart below

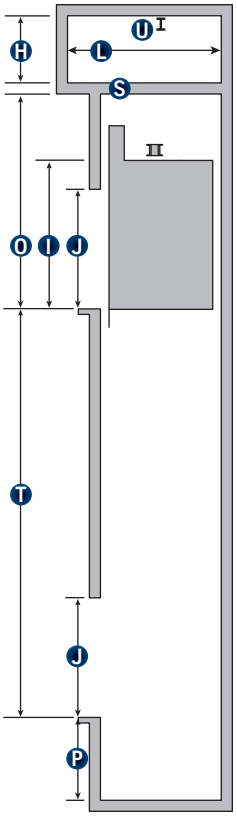
Minimum Pit (P)
5'-0" (1524) for 200 fpm (1.0 m/s) & 350 fpm (1.7 m/s) *****
6'-6" (1981) for 450 fpm (2.2 m/s) and 500 fpm (2.5 m/s)



Both right and left hand doors available

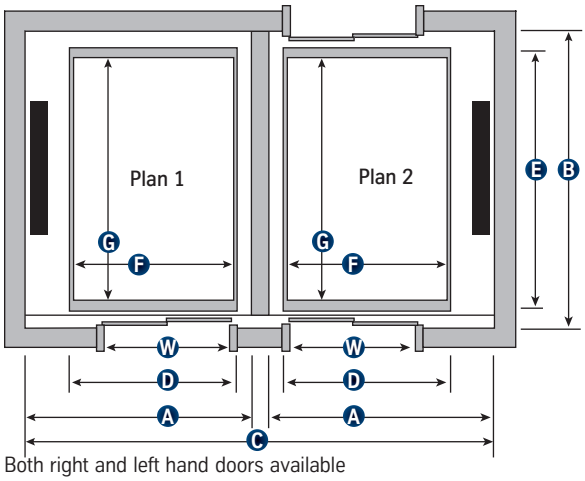
SPF Traction Elevators									
Capacity in pounds		(A) Simplex Hoistway Width	(B) Hoistway Depth	(C) Duplex Hoistway Width	(D) Platform Width	(E) Platform Depth	(F) Clear Inside Width	(G) Clear Inside Depth	(W) Door Opening Width
2100	Plan 1	7'-4" (2235) *	6'-8" (2032) *	15'-0" (4572) *	6'-0" (1829)	5'-1" (1550)	5'-8" (1727)	4'-3" (1295)	3'-0" Single-Speed ***
(953 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2500	Plan 1	8'-4" (2540) *	6'-8" (2032) *	17'-0" (5182) *	7'-0" (2134)	5'-1" (1550)	6'-8" (2032)	4'-3" (1295)	3'-6" (1067)
(1134 kg)	Plan 2	9'-2" (2794) **	6'-8 ¾" (2051)	18'-8" (5690) **	7'-0" (2134)	5'-8 ¼" (1734)	6'-8" (2032)	4'-3 ½" (1308)	3'-6" (1067)
3000	Plan 1	8'-4" (2540) *	7'-2" (2184) *	17'-0" (5182) *	7'-0" (2134)	5'-7" (1702)	6'-8" (2032)	4'-9" (1448)	3'-6" (1067)
(1361 kg)	Plan 2	9'-2" (2794) **	7'-2 ¾" (2203)	18'-8" (5690) **	7'-0" (2134)	6'-2 ¼" (1886)	6'-8" (2032)	4'-9 ½" (1460)	3'-6" (1067)
3500	Plan 1	8'-4" (2540) *	7'-10" (2388) *	17'-0" (5182) *	7'-0" (2134)	6'-3" (1905)	6'-8" (2032)	5'-5" (1651)	3'-6" (1067)
(1588 kg)	Plan 2	9'-2" (2794) **	7'-10 ¾" (2407)	18'-8" (5690) **	7'-0" (2134)	6'-10 ¼" (2089)	6'-8" (2032)	5'-5 ½" (1664)	3'-6" (1067)
4000 IBC	Plan 1	9'-4" (2845) *	7'-10" (2388) *	19'-0" (5791) *	8'-0" (2434)	6'-3" (1905)	7'-8" (2337)	5'-5" (1651)	4'-0" (1219) ****
(1814 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SPF Overhead Requirements			
Capacity in pounds	200 fpm (1.0 m/s)	350 fpm (1.7 m/s)	450 fpm (2.2 m/s)/ 500 fpm (2.5 m/s)
2100 (953 kg)	15'-0" (4572)	15'-0" (4572)	N/A
2500 (1134 kg)	15'-0" (4572)	15'-0" (4775)	16'-0" (4877)
3000 (1361 kg)	15'-0" (4572)	15'-8" (4572)	16'-0" (4877)
3500 (1588 kg)	15'-0" (4572)	15'-8" (4572)	17'-2" (5232)
4000 (1814 kg)	15'-0" (4572)	16'-0" (4877)	N/A



Notes
(1) Hoistway dimensions are based on 1" (25) out of plumb and no occupied space below hoistway. If these conditions cannot be met, then consideration must be given for additional required space.
(2) * For Seismic conditions on Plan 1 applications, add 4" (102) to the Simplex Hoistway Width [8" (203) for Duplex] and 2" (51) to the Hoistway Depth.
(3) ** For Seismic conditions on Plan 2 applications, add 6" (152) to the Simplex Hoistway Width [1'-0" (305) for Duplex].
(4) *** Center-Opening doors are not available on this model. 3'-0" (914) Side-Slide (Single-Speed) (W) is standard.
(5) **** To meet the requirements of IBC Code for 84" stretchers, a 4'-0" (1219) Center-Opening or 3'-6" (1067) Side-Slide (Single-Speed) door is required. Contact your local TKE office for Code requirements in your jurisdiction.
(6) ***** 5'-9" (1753) Pit may be required for 2000 code compliance, if 48" (1218) retractable toe guard not used. Consult ThyssenKrupp Elevator for pit with travel over 250'-0" (76200).
(7) Machine Room dimensions = 16'-0" (4877) (L) x 7'-6" (2286) (H). Machine Room temperature range 50 degrees F. Min., 90 degrees F. Max. 10% - 90% Non-Condensing Relative Humidity.
(8) (S) = Concrete structural support slab by others. Machine Room floor to support all elevator machine loads and floor loads per ASME A171.1.
(9) Safety Beam (U) by others.
(10) Ladder to Pit (P) by others.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.



Both right and left hand doors available

Features

Max Travel (T)
250'-0" (76200)

Max Landings
64

Speeds
200 fpm (1.0 m/s), 350 fpm (1.7 m/s) & 450 fpm (2.2 m/s)

Cab Height (I)
7'-11" (2413) high

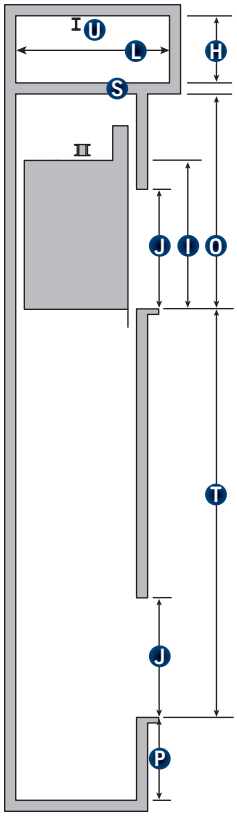
Entrance Height (J)
7'-0" (2134) high

Minimum Overhead (O)
See chart below

Minimum Pit (P)
5'-0" (1524) for 200 fpm (1.0 m/s) & 350 fpm (1.7 m/s) ***
6'-6" (1981) for 450 fpm (2.2 m/s)

SPF Traction Elevators for Patient-Care Facilities

Capacity in pounds		(A) Simplex Hoistway Width	(B) Hoistway Depth	(C) Duplex Hoistway Width	(D) Platform Width	(E) Platform Depth	(F) Clear Inside Width	(G) Clear Inside Depth	(W) Door Opening Width [Standard/Optional] *
4500	Plan 1	8'-1" (2464) **	9'-8" (2946)	16'-6" (5029) **	6'-0" (1829)	8'-9" (2667)	5'-8" (1727)	7'-9 ½" (2375)	4'-0" (1219) / 4'-6" (1372) *
(2041 kg)	Plan 2	8'-1" (2464) **	10'-9 ¼" (3283)	16'-6" (5029) **	6'-0" (1829)	9'-5 ¾" (2889)	5'-8" (1727)	7'-10" (2388)	4'-0" (1219) / 4'-6" (1372) *
5000	Plan 1	8'-1" (2464) **	10'-2" (3099)	16'-6" (5029) **	6'-0" (1829)	9'-4 ½" (2858)	5'-8" (1727)	8'-5" (2565)	4'-0" (1219) / 4'-6" (1372) *
(2268 kg)	Plan 2	8'-1" (2464) **	11'-4 ¾" (3473)	16'-6" (5029) **	6'-0" (1829)	10'-1 ¼" (3080)	5'-8" (1727)	8'-5 ½" (2578)	4'-0" (1219) / 4'-6" (1372) *
5000H AIA	Plan 1	8'-3" (2515) **	10'-9" (3277)	16'-10" (5131) **	6'-0" (1829)	9'-11 ½" (3035)	5'-8" (1727)	9'-0" (2743)	4'-0" (1219) / 4'-6" (1372) *
(2268 kg)	Plan 2	8'-3" (2515) **	11'-11 ¾" (3651)	16'-10" (5131) **	6'-0" (1829)	10'-8 ¼" (3258)	5'-8" (1727)	9'-0 ½" (2756)	4'-0" (1219) / 4'-6" (1372) *



SPF Overhead Requirements

Capacity in pounds	200 fpm (1.0 m/s)	350 fpm (1.7 m/s)	450 fpm (2.2 m/s)
4500 (2041 kg)	15'-0" (4572) ****	16'-0" (4877)	N/A
5000 (2268 kg)	15'-0" (4572) ****	16'-0" (4877)	17'-8" (5385)
5000H (2268 kg)	15'-0" (4572) ****	16'-0" (4877)	N/A

Notes

(1) Hoistway dimensions are based on 1" (25) out of plumb and no occupied space below hoistway. If these conditions cannot be met, then consideration must be given for additional required space.
(2) * Hoistway Width for optional 4'-6" (1372) Two-Speed door is 8'-3" (2515). Duplex Hoistway Width for optional 4'-6" (1372) Two-Speed door is 16'-6" (5029) for SPF-45 & SPF 50 and 16'-0" (5131) for SPF-50H. For Seismic conditions, add 4 ¼" (108) to the Simplex Hoistway Width [8 ½" (216) for Duplex].
(3) ** For Seismic conditions, add 4 ¼" (108) to the Simplex Hoistway Width [8 ½" (216) for Duplex].
(4) *** 6'-0" (1829) min. Pit (P) above 110'-0" (33528) travel at 200 or 350 fpm (1.0 or 1.7 m/s). Consult ThyssenKrupp Elevator for travel over 250'-0" (76200). 5'-9" (1753) Pit (P) may be required for 2000 code compliance, if 48" (1218) retractable toe guard not used.
(5) **** 16'-0" (4877) Overhead (O) above 167'-0" (50902) travel.
(6) Machine Room dimensions = 16'-0" (4877) (L) x 7'-6" (2286) (H) [(H) =8'-0" (2438) for 5000 @ 450 (2.2 m/s)]. Machine Room temperature range 50 degrees F. Min., 90 degrees F. Max. 10% - 90% Non-Condensing Relative Humidity.
(7) (S) = Concrete structural support slab by others. Machine Room floor to support all elevator machine loads and floor loads per ASME A171.1.
(8) Safety Beam (U) by others.
(9) Ladder to Pit (P) by others.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

AC Gearless Traction Elevators
500 FPM (2.5 m/s) and 700 FPM (3.6 m/s)

Features

Max Travel (T)
825'-0" (251460)

Max Landings
64

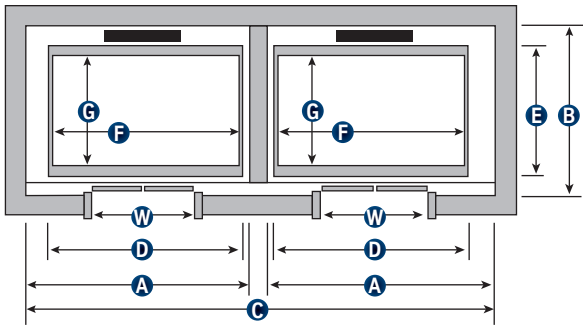
Speeds
500 fpm (2.5 m/s)
700 fpm (3.6 m/s)

Cab Height (I)
7'-11" (2413) high

Entrance Height (J)
7'-0" (2134) high

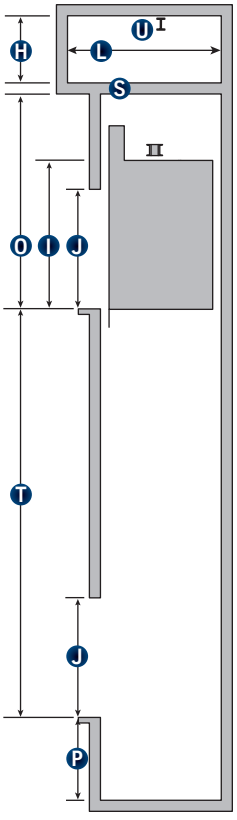
Minimum Overhead (O)
20'-0" (6096)

Minimum Pit (P)
6'-6" (1981) **



AC Gearless Traction Elevators - 500FPM (2.5 m/s) and 700 FPM (3.6 m/s)									
Capacity in pounds		(A) Simplex Hoistway Width	(B) Hoistway Depth	(C) Duplex Hoistway Width	(D) Platform Width	(E) Platform Depth	(F) Clear Inside Width	(G) Clear Inside Depth	(W) Door Opening Width
2500	Plan 1	8'-4" (2540) *	6'-8" (2032) *	17'-0" (5182) *	7'-0" (2134)	5'-1" (1550)	6'-8" (2032)	4'-3" (1295)	3'-6" (1067)
(1134 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3000	Plan 1	8'-4" (2540) *	7'-2" (2184) *	17'-0" (5182) *	7'-0" (2134)	5'-7" (1702)	6'-8" (2032)	4'-9" (1448)	3'-6" (1067)
(1361 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3500	Plan 1	8'-4" (2540) *	7'-10" (2388) *	17'-0" (5182) *	7'-0" (2134)	6'-3" (1905)	6'-8" (2032)	5'-5" (1651)	3'-6" (1067)
(1588 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4000	Plan 1	9'-4" (2845) *	7'-10" (2388) *	19'-0" (5791) *	8'-0" (2434)	6'-3" (1905)	7'-8" (2337)	5'-5" (1651)	4'-0" (1219)
(1814 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ThyssenKrupp Elevator's AC Gearless traction elevators are the ultimate in high-speed vertical transportation. With vector control technology, our gearless systems precisely control AC motors at speeds of 500 fpm (2.5 m/s) and 700 fpm (3.6 m/s).

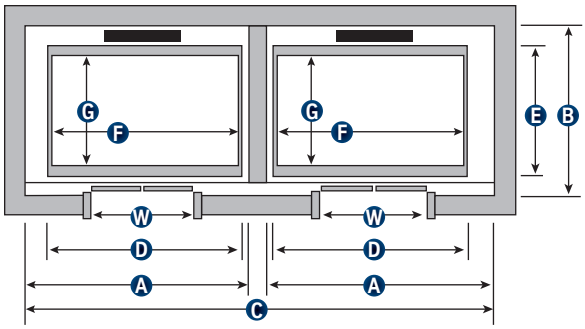


Notes

(1) Hoistway dimensions are based on 1" (25) out of plumb and no occupied space below hoistway. If these conditions cannot be met, then consideration must be given for additional required space.
(2) * For Seismic conditions add 4" (102) to the Simplex Hoistway Width [8" (203) for Duplex] and 2" (51) to the Hoistway Depth.
(3) ** Pit (P) based on chain compensation. Add 2'-8" (813) for rope compensation.
(4) For 500 fpm (2.5 m/s) and 700 fpm (3.6 m/s), chain compensation available up to 300'-0" (91440) of travel. Rope compensation required above 300'-0" (91440) of travel.
(5) Machine Room dimensions = 17'-0" (5182) (L) x 8'-6" (2591) (H). Machine Room temperature range 50°F (28°C) min., 90°F (50°C) max. 10% - 90% Non-Condensing Relative Humidity.
(6) (S) = Concrete structural support slab by others. Machine Room floor to support all elevator machine loads and floor loads per ASME A171.1.
(7) Safety Beam (U) by others.
(8) Ladder to Pit (P) by others.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

AC Gearless Traction Elevators
800 FPM (4.0 m/s) 1000 fpm (5.0 m/s) 1200 fpm (6.1 m/s)



Features

Max Travel (T)
825'-0" (251460)

Max Landings
64

Speeds
800 fpm (4.0 m/s)
1000 fpm (5.0 m/s)
1200 fpm (6.1 m/s)

Cab Height (I)
7'-11" (2413) high

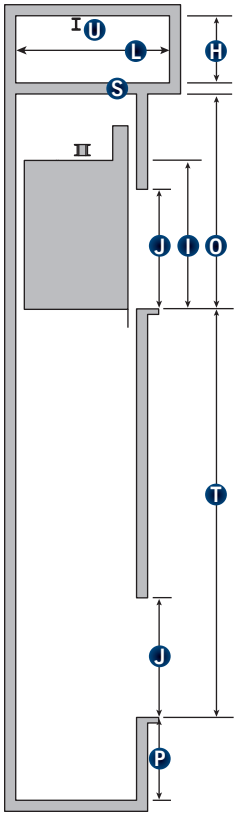
Entrance Height (J)
7'-0" (2134) high

Minimum Overhead (O)
See chart below

Minimum Pit (P)
11'-4" (3454)
for 800 fpm (4.0 m/s)
11'-6" (3505)
for 1000 fpm (5.0 m/s)
22'-6" (6858)
for 1200 fpm (6.1 m/s) ****

AC Gearless Traction Elevators - 800 FPM (4.0 m/s) 1000 FPM (5.0 m/s) 1200 FPM (6.1 m/s)

Capacity in pounds		(A) Simplex Hoistway Width	(B) Hoistway Depth	(C) Duplex Hoistway Width	(D) Platform Width	(E) Platform Depth	(F) Clear Inside Width	(G) Clear Inside Depth	(W) Door Opening Width
3000	Plan 1	8'-4" (2540) *	7'-2" (2184) **	17'-0" (5182) ***	7'-0" (2134)	5'-7" (1702)	6'-8" (2032)	4'-9" (1448)	3'-6" (1067)
(1361 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3500	Plan 1	8'-4" (2540) *	7'-10" (2388) **	17'-0" (5182) ***	7'-0" (2134)	6'-3" (1905)	6'-8" (2032)	5'-5" (1651)	3'-6" (1067)
(1588 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4000	Plan 1	9'-4" (2845) *	7'-10" (2388) **	19'-0" (5791) ***	8'-0" (2434)	6'-3" (1905)	7'-8" (2337)	5'-5" (1651)	4'-0" (1219)
(1814 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Minimum Overhead Requirements ***

Capacity in pounds	800 fpm (4.0 m/s)	1000 fpm (5.0 m/s)	1200 fpm (6.1 m/s)
3000 (1361 kg)	20'-0" (6096)	24'-5" (7442)	27'-2" (8280)
3500 (1588 kg)	21'-8" (6604)	24'-8" (7518)	27'-2" (8280)
4000 (1814 kg)	21'-8" (6604)	24'-8" (7518)	27'-2" (8280)

Notes

(1) Hoistway dimensions are based on 1" (25) out of plumb and no occupied space below hoistway. If these conditions cannot be met, then consideration must be given for additional required space.
(2) * Simplex Hoistway Width Dimensions:
a. When speed = 800 fpm (4.0 m/s) add 4" (102) for seismic.
b. When speed = 1000 fpm (5.0 m/s) or 1200 fpm (6.1 m/s) add 2" (51) [3" (76) for seismic].
(3) ** Hoistway Depth: Add 2" (51) for seismic. When speed = 1200 fpm (6.1 m/s) add 4" (102).
(4) *** Duplex Hoistway Width Dimensions:
a. When speed = 800 fpm (4.0 m/s) add 8" (203) for seismic.
b. When speed = 1000 fpm (5.0 m/s) or 1200 fpm (6.1 m/s) add 4" (102) [6" (152) for seismic].
(5) **** Per ASME A17.1 rule 2.2.4.2 must have separate pit access door 10'-0" (3049) maximum from access door sill to the pit floor or 13'-9" (4191) maximum from access door sill to pit floor if there is not a building floor below the terminal floor.
(6) Machine Room dimensions = 18'-0" (5486) (L) x 9'-8" (2946) (H). Machine Room temperature range 50°F (28°C) min., 90°F (50°C) max. 10% - 90% Non-Condensing Relative Humidity.
(7) ***** Rope compensation only.
(8) (S) = Concrete structural support slab by others. Machine Room floor to support all elevator machine loads and floor loads per ASME A171.1.
(9) Safety Beam (U) by others.
(10) Ladder to Pit (P) by others. Per ASME A17.1 rule 2.2.4.2 must have separate pit access door 10'-0" (3049) maximum from access door sill to the pit floor or 13'-9" (4191) maximum from access door sill to pit floor if there is not a building floor below the terminal floor.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

The AMEE C Series
Single-Stage Holeless Applications

Features

Max Travel (T)
12'-0 ½" (3670) for 100 fpm (0.5 m/s) or less *
11'-9 ½" (3594) for 115 fpm (0.58 m/s) & 135 fpm (0.68 m/s) *

Max Landings
2

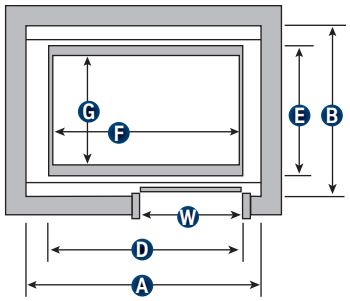
Speeds
100 fpm (0.5 m/s), 115 fpm (0.58 m/s) & 135 fpm (0.68m/s) *

Cab Height (I)
7'-11" (2413) high

Entrance Height (J)
7'-0" (2134) high

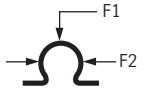
Minimum Overhead (O)
12'-0" (3658) for 100 fpm (0.5 m/s) or less ***
12'-3" (3734) for 115 fpm (0.58 m/s) & 135 fpm (0.68 m/s) ***

Minimum Pit (P)
4'-0" (1219) **

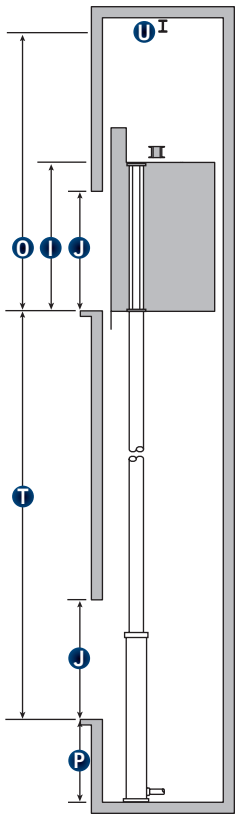


Both right and left hand doors available

AMEE C Series Single-Stage Holeless Applications								
Capacity in pounds		(A) Hoistway Width	(B) Hoistway Depth	(D) Platform Width	(E) Platform Depth	(F) Clear Inside Width	(G) Clear Inside Depth	(W) Door Opening Width
2000	Plan 1	7'-4" (2235)	6'-0" (1829)	6'-0 ½" (1841)	5'-4" (1626)	5'-8" (1727)	4'-3" (1295)	3'-0" (914)
(907 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2500	Plan 1	8'-4" (2540)	6'-0" (1829)	7'-0 ½" (2146)	5'-4" (1626)	6'-8" (2032)	4'-3" (1295)	3'-6" (1067)
(1134 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

AMEE C - Loads on Car Rail				
		(F1) Lbs (N)	(F2) Lbs (N)	Max. Spacing on Rail Bracket Supports
	AMEE 20C	516 (2295)	718 (3194)	11'-9" (3581)
	AMEE 25C	734 (3265)	924 (4110)	10'-5" (3175)

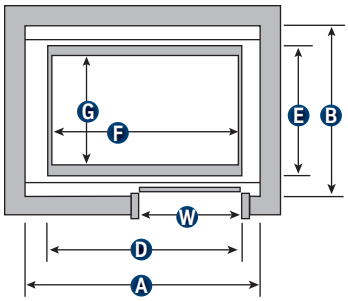
AMEE C
Single-Stage Holeless



ThyssenKrupp Elevator's AMEE C product line has a special front-mounted cylinder that makes it perfect for add-on installations or for areas where drilling a jack hole is difficult. Architects find it a practical solution for installations in areas with a high water table or bedrock. The AMEE C Series is available with a special front-mounted telescoping jack option, which utilizes computer-controlled re-synchronization to ensure accurate leveling and smooth starts and stops.

Notes
(1) *Speeds and travel (T) limitations may vary depending upon specific job requirements.
(2) ** Pit (P): 5'-2" (1575) in Ontario.
(3) *** If rule 2.14.1.7.1 of the ASME A17.1 safety code applies, and car top railing is required, then clear Overhead (O) requirements become 12'-5" (3785) up to 100 fpm (0.5 m/s) and 12'-8" (3861) over 100 fpm (0.5 m/s).
(4) Ladder to Pit (P) by others.
(5) Safety beam (U) required per OSHA 1926.502, provided and installed by others, as directed by the local TKE office. Clear overhead is shown to the bottom of the safety beam. If safety beams (by others) are used, they must not encroach into required clear overhead dimensions.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.



Both right and left hand doors available

Features

Max Travel (T)
22'-7 ½" (6896) for 100 fpm (0.5 m/s) or less *
22'-1 ½" (6744) for 125 fpm (0.63 m/s) & 150 fpm (0.76 m/s) *

Max Landings
8

Speeds
100 fpm (0.5 m/s), 125 fpm (0.63 m/s) & 150 fpm (0.76 m/s) *

Cab Height (I)
7'-11" (2413) high

Entrance Height (J)
7'-0" (2134) high

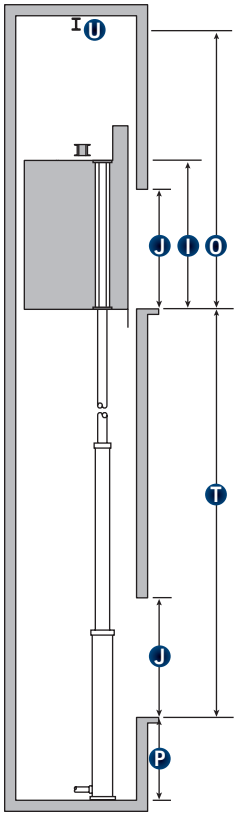
Minimum Overhead (O)
12'-0" (3658) for 100 fpm (0.5 m/s) or less ***
12'-3" (3734) for 125 fpm (0.63 m/s) & 150 fpm (0.76 m/s) ***

Minimum Pit (P)
4'-0" (1219) **

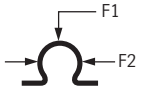
AMEE C Series 2-Stage Telescopic Holeless Applications

Capacity in pounds		(A) Hoistway Width	(B) Hoistway Depth	(D) Platform Width	(E) Platform Depth	(F) Clear Inside Width	(G) Clear Inside Depth	(W) Door Opening Width
2000	Plan 1	7'-4" (2235)	6'-0" (1829)	6'-0 ½" (1841)	5'-4" (1626)	5'-8" (1727)	4'-3" (1295)	3'-0" (914)
(907 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2500	Plan 1	8'-4" (2540)	6'-0" (1829)	7'-0 ½" (2146)	5'-4" (1626)	6'-8" (2032)	4'-3" (1295)	3'-6" (1067)
(1134 kg)	Plan 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

AMEE C
Telescopic (2-Stage)



AMEE C - Loads on Car Rail



	(F1) Lbs (N)	(F2) Lbs (N)	Max. Spacing on Rail Bracket Supports
AMEE 20C	516 (2295)	718 (3194)	11'-9" (3581)
AMEE 25C	734 (3265)	924 (4110)	10'-5" (3175)

Notes

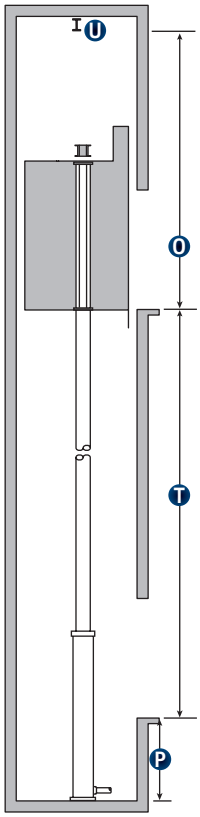
(1) Additional travel (T): 100 fpm (0.5 m/s) or less: Pit (P) and/or Overhead (O) must be increased 1" (25) for every 2" (51) of net travel over 22'-7 ½" (6896) up to 24'-4 ½" (7430). Over 100 fpm (0.5 m/s): Pit (P) and/or Overhead (O) must be increased 1" (25) for every 2" (51) of net travel over 22'-1 ½" (6744) up to 23'-10 ½" (7277). Maximum 2'-0" (610) allowed in Overhead (O).
(2) * Speeds and travel (T) limitations may vary depending upon specific job requirements.
(3) ** Pit (P): 5'-2" (1575) in Ontario.
(4) *** If rule 2.14.1.7.1 of the ASME A17.1 safety code applies, and car top railing is required, then clear Overhead (O) requirements become 12'-5" (3785) up to 100 fpm (0.5 m/s) and 12'-8" (3861) over 100 fpm (0.5 m/s).
(5) Ladder to Pit (P) by others.
(6) Safety beam (U) required per OSHA 1926.502, provided and installed by others, as directed by the local TKE office. Clear overhead is shown to the bottom of the safety beam. If safety beams (by others) are used, they must not encroach into required clear overhead dimensions.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

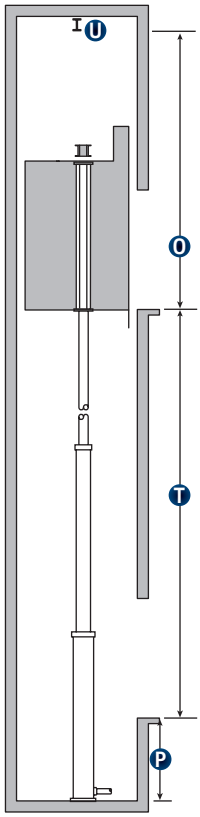
The AMEE Series
Holeless Hoistway Section Views

ThyssenKrupp Elevator's AMEE Series takes you to new heights! Encompassing three different jack designs, the AMEE Series offers applications for a wide range of travels. Below are section views and dimensional data for our Twinpost Holeless (Single-Stage) design, as well as our 2-Stage and 3-Stage Telescopic holeless jacks. Any of these jack types are available with our AMEE Passenger and Patient-Care applications, as detailed on pages 15 & 16.

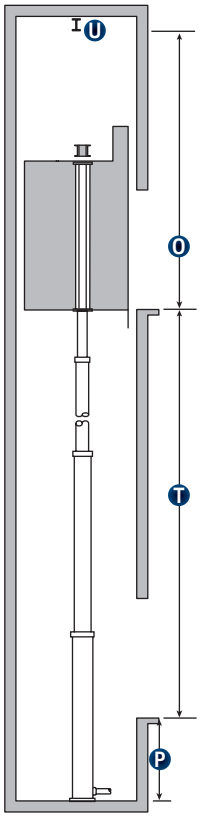
Twinpost Holeless



Twinpost Telescopic (2-Stage)



Twinpost Telescopic (3-Stage)



AMEE Series Holeless Jack Applications

Jack Type	Speed	(T) Maximum Travel *	(P) Standard Minimum Pit	(O) Standard Minimum Overhead
Twinpost Holeless (Single-Stage)	Up to 100 fpm (0.5 m/s)	12'-8" (3861) [A]	4'-0" (1219) **	12'-2" (3708)
	Over 100 fpm (0.5 m/s)	12'-5" (3785) [B]	4'-0" (1219) **	12'-5" (3785)
Twinpost Telescopic (2-Stage)	Up to 100 fpm (0.5 m/s)	23'2 ½" (7074) [C]	4'-0" (1219) **	12'-8" (3861)
	Over 100 fpm (0.5 m/s)	23'2 ½" (7074) [C]	4'-0" (1219) **	12'-8" (3861)
Twinpost Telescopic (3-Stage)	Up to 100 fpm (0.5 m/s)	33'-6 ½" (10223) [D]	4'-0" (1219) **	12'-11" (3937)
	Over 100 fpm (0.5 m/s)	33'-6 ½" (10223) [D]	4'-0" (1219) **	12'-11" (3937)

Notes

(1) * Maximum Travel (T) with standard pits and overheads.

(2) ** Minimum Pit (P) is 5'-2" (1575) in Ontario.

(3) [A] To obtain additional travel with the Twinpost Holeless (Single-Stage) application, the Pit (P) and/or Overhead (O) must be increased 1" (25) for every 1" (25) of net travel over 12'-8" (3861) [13'-10" (4216) in Ontario] up to 18'-11" (5766) at 100 fpm (0.5 m/s) or less. Maximum 2'-0" (610) allowed in overhead.

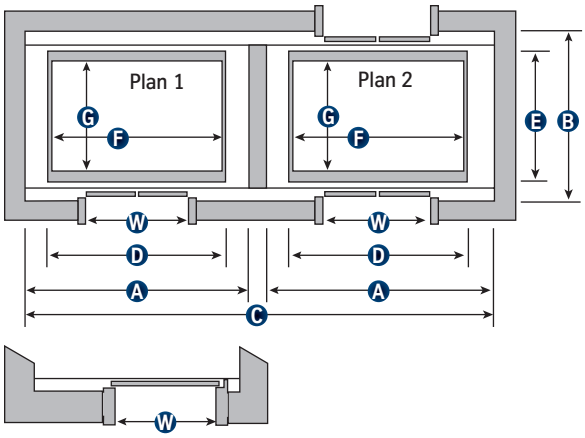
(4) [B] To obtain additional travel with the Twinpost Holeless (Single-Stage) application, the Pit (P) and/or Overhead (O) must be increased 1" (25) for every 1" (25) of net travel over 12'-5" (3785) [13'-7" (4140) in Ontario] up to 18'-8" (5690) over 100 fpm (0.5 m/s). Maximum 2'-0" (610) allowed in overhead.

(5) [C] To obtain additional travel with the 2-Stage Telescopic Jack application, the Pit (P) and/or Overhead (O) must be increased 1" (25) for every 2" (51) of net travel over 23'- 2 ½" (7074) net travel [25'-6 ½" (7785) in Ontario] up to 28'-6" (8687). Maximum 2'-0" (610) allowed in overhead.

(6) [D] To obtain additional travel with the 3-Stage Telescopic Jack application, the Pit (P) and/or Overhead (O) must be increased 1" (25) for every 3" (77) of net travel over 33'- 6 ½" (10223) net travel [37'-0 ½" (11290) in Ontario] up to 48'-3 ½" (14719). Maximum 2'-0" (610) allowed in overhead.

(7) Safety beam (U) required per OSHA 1926.502, provided and installed by others, as directed by the local TKE office. Clear overhead is shown to the bottom of the safety beam. If safety beams (by others) are used, they must not encroach into required clear overhead dimensions.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.



Features

Max Travel (T)
33'-6 ½" (10223) with 3-Stage jack *

Max Landings
8

Speeds
80 to 150 fpm (0.4 m/s to 0.76 m/s) *

Cab Height (I)
7'-11" (2413) high

Entrance Height (J)
7'-0" (2134) high

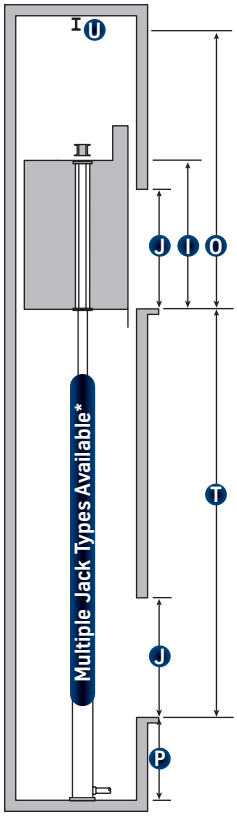
Minimum Overhead (O)
12'-11" (3937) with 3-Stage jack *

Minimum Pit (P)
4'-0" (1219)

Both right and left hand doors available

AMEE Series Holeless Pre-Engineered Passenger Elevators

Capacity in pounds		(A) Hoistway Width	(B) Hoistway Depth	(C) Duplex Hoistway Width	(D) Platform Width	(E) Platform Depth	(F) Clear Inside Width	(G) Clear Inside Depth	(W) Door Opening Width [Center-Opening/Side-Slide]
2100	Plan 1	7'-4" (2235) **	5'-9" (1753)	15'-0" (4572) **	6'-0" (1829)	5'-1" (1549)	5'-8" (1727)	4'-3" (1295)	N/A / 3'-0" (914)
(953 kg)	Plan 2	7'-4" (2235) **	6'-8 ¾" (2051)	15'-0" (4572) **	6'-0" (1829)	5'-8 ¼" (1734)	5'-8" (1727)	4'-3 ½" (1308)	N/A / 3'-0" (914)
2500	Plan 1	8'-4" (2540) **	5'-9" (1753)	17'-0" (5182) **	7'-0" (2134)	5'-1" (1549)	6'-8" (2032)	4'-3" (1295)	3'-6" (1067) / 3'-6" (1067)
(1134 kg)	Plan 2	8'-4" (2540) **	6'-8 ¾" (2051)	17'-0" (5182) **	7'-0" (2134)	5'-8 ¼" (1734)	6'-8" (2032)	4'-3 ½" (1308)	3'-6" (1067) / 3'-6" (1067)
3000	Plan 1	8'-4" (2540) **	6'-3" (1905)	17'-0" (5182) **	7'-0" (2134)	5'-7" (1702)	6'-8" (2032)	4'-9" (1448)	3'-6" (1067) / 3'-6" (1067)
(1361 kg)	Plan 2	8'-4" (2540) **	7'-2 ¾" (2203)	17'-0" (5182) **	7'-0" (2134)	6'-2 ¼" (1886)	6'-8" (2032)	4'-9 ½" (1460)	3'-6" (1067) / 3'-6" (1067)
3500	Plan 1	8'-4" (2540) **	6'-11" (2108)	17'-0" (5182) **	7'-0" (2134)	6'-3" (1905)	6'-8" (2032)	5'-5" (1651)	3'-6" (1067) / 3'-6" (1067)
(1588 kg)	Plan 2	8'-4" (2540) **	7'-10 ¾" (2407)	17'-0" (5182) **	7'-0" (2134)	6'-10 ¼" (2089)	6'-8" (2032)	5'-5 ½" (1664)	3'-6" (1067) / 3'-6" (1067)
4000 IBC	Plan 1	9'-4" (2845) **	6'-11" (2108)	19'-0" (5791) **	8'-0" (2438)	6'-3" (1905)	7'-8" (2337)	5'-5" (1651)	4'-0"(1219) / 3'-6" (1067) ***
(1814 kg)	Plan 2	9'-4" (2845) **	7'-10 ¾" (2407)	19'-0" (5791) **	8'-0" (2438)	6'-10 ¼" (2089)	7'-8" (2337)	5'-5 ½" (1664)	4'-0"(1219) / 3'-6" (1067) ***



AMEE Available Speeds

Jack Type					
Twinpost Holeless (Single-Stage)	(fpm)	80	110	150	
	(m/s)	0.4	0.56	0.76	
Twinpost Telescopic (2-Stage)	(fpm)	80	110	150	
	(m/s)	0.4	0.56	0.76	
Twinpost Telescopic (3-Stage)	(fpm)	80	100	125	150
	(m/s)	0.4	0.5	0.64	0.76

Notes

(1) * Speeds and travel (T) limitations may vary depending upon specific job requirements. See page 14 of this Planning Guide for detailed information on Travel (T), Pit (P) and Overhead (O) requirements of our AMEE Series.
(2) ** Add 4" (102) [8" (203) for Duplex] additional Hoistway Width for a 3-Stage Telescopic-jack application.
(3) *** To meet the requirements of IBC Code for 84" (2134) stretchers, a 4'-0" (1219) Center-Opening or 3'-6" (1067) Side-Slide (Single-Speed) door is required. Contact your local TKE office for Code requirements in your jurisdiction.
(4) Ladder to Pit (P) by others.
(5) Safety beam (U) required per OSHA 1926.502, provided and installed by others, as directed by the local TKE office. Clear overhead is shown to the bottom of the safety beam. If safety beams (by others) are used, they must not encroach into required clear overhead dimensions.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

The AMEE Series
Holeless Pre-Engineered Patient-Care Applications

Features

Max Travel
33'-6 ½" (10223) with 3-Stage jack *

Max Landings
8

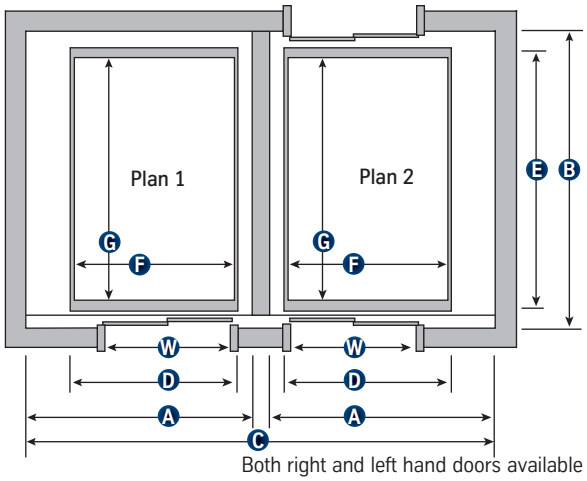
Speeds
80 to 150 fpm
(0.4 m/s to 0.76 m/s) *

Cab Height (I)
7'-11" (2413) high

Entrance Height (J)
7'-0" (2134) high

Minimum Overhead (O)
12'-11" (3937) with 3-Stage jack *

Minimum Pit (P)
4'-0" (1219)



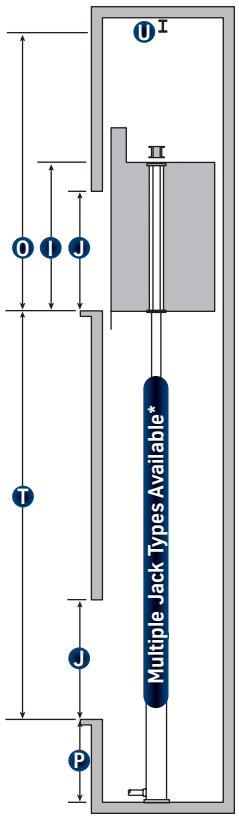
Both right and left hand doors available

AMEE Series Holeless Pre-Engineered Patient Care Elevators

Capacity in pounds		(A) Hoistway Width	(B) Hoistway Depth	(C) Duplex Hoistway Width	(D) Platform Width	(E) Platform Depth	(F) Clear Inside Width	(G) Clear Inside Depth	(W) Door Opening Width [Standard/Optional] **
4500	Plan 1	7'-4" (2235) ***	9'-6 ½" (2908)	15'-0" (4572) ***	6'-0" (1829)	8'-9" (2667)	5'-8" (1727)	7'-9 ½" (2375)	4'-0" (1219) / 4'-6" (1372) **
(2021 kg)	Plan 2	7'-4" (2235) ***	10'-9 ¼" (3283)	15'-0" (4572) ***	6'-0" (1829)	9'-5 ¾" (2889)	5'-8" (1727)	7'-10" (2388)	4'-0" (1219) / 4'-6" (1372) **
5000	Plan 1	7'-4" (2235) ***	10'-2" (3099)	15'-0" (4572) ***	6'-0" (1829)	9'-4 ½" (2858)	5'-8" (1727)	8'-5" (2565)	4'-0" (1219) / 4'-6" (1372) **
(2268 kg)	Plan 2	7'-4" (2235) ***	11'-4 ¾" (3473)	15'-0" (4572) ***	6'-0" (1829)	10'-1 ¼" (3080)	5'-8" (1727)	8'-5 ½" (2578)	4'-0" (1219) / 4'-6" (1372) **
5000H AIA	Plan 1	7'-4" (2235) ***	10'-9" (3277)	15'-0" (4572) ***	6'-0" (1829)	9'-11 ½" (3035)	5'-8" (1727)	9'-0" (2743)	4'-0" (1219) / 4'-6" (1372) **
(2268 kg)	Plan 2	7'-4" (2235) ***	11'-11 ¾" (3651)	15'-0" (4572) ***	6'-0" (1829)	10'-8 ¼" (3258)	5'-8" (1727)	9'-0 ½" (2756)	4'-0" (1219) / 4'-6" (1372) **

AMEE Available Speeds

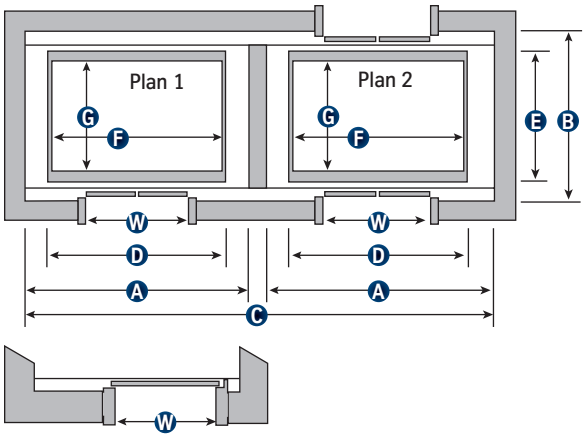
Jack Type					
Twinpost Holeless (Single-Stage)	(fpm)	80	110	150	
	(m/s)	0.4	0.56	0.76	
Twinpost Telescopic (2-Stage)	(fpm)	80	110	150	
	(m/s)	0.4	0.56	0.76	
Twinpost Telescopic (3-Stage)	(fpm)	80	100	125	150
	(m/s)	0.4	0.5	0.64	0.76



Notes

(1) * Speeds and travel (T) limitations may vary depending upon specific job requirements. See page 14 of this Planning Guide for detailed information on Travel (T), Pit (P) and Overhead (O) requirements of our AMEE Series.
(2) ** Hoistway Width required for the optional 4'-6" (1372) Two-Speed Side-Opening door is 8'-2" (2489). Duplex Hoistway Width for the optional 4'-6" (1372) Two-Speed Side-Opening door is 16'-8" (5080). Add 2" (51) additional Hoistway Width for 3-Stage Telescopic jack application.
(3) *** Add 4" (102) [8" (203) for Duplex] additional Hoistway Width for 3-Stage Telescopic jack application.
(4) Ladder to Pit (P) by others.
(5) Safety beam (U) required per OSHA 1926.502, provided and installed by others, as directed by the local TKE office. Clear overhead is shown to the bottom of the safety beam. If safety beams (by others) are used, they must not encroach into required clear overhead dimensions.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.



Both right and left hand doors available

Features

Max Travel (T)
79'-0" (24080) *

Max Landings
8

Speeds
80 (0.4 m/s), 100 (0.5 m/s)
125 (0.63 m/s), 150 (0.76 m/s)
175 (0.9 m/s) & 200 (1.0 m/s) *

Cab Height (I)
7'-11" (2413) high

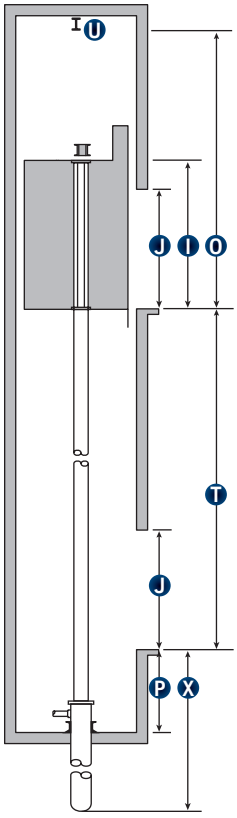
Entrance Height (J)
7'-0" (2134) high

Minimum Overhead (O)
12'-0" (3658)
up to 100 fpm (0.5 m/s) ***
12'-3" (3734)
over 100 fpm (0.5 m/s) ***

Minimum Pit (P)
4'-0" (1219) **

Conventional Series Holed Pre-Engineered Passenger Elevators

Capacity in pounds		(A) Hoistway Width	(B) Hoistway Depth	(C) Duplex Hoistway Width	(D) Platform Width	(E) Platform Depth	(F) Clear Inside Width	(G) Clear Inside Depth	(W) Door Opening Width [Center-Opening/Side-Slide]
2100	Plan 1	7'-4" (2235)	5'-9" (1753)	15'-0" (4572)	6'-0" (1829)	5'-1" (1549)	5'-8" (1727)	4'-3" (1295)	N/A / 3'-0" (914)
(953 kg)	Plan 2	7'-4" (2235)	6'-8 ¾" (2051)	15'-0" (4572)	6'-0" (1829)	5'-8 ¼" (1734)	5'-8" (1727)	4'-3 ½" (1308)	N/A / 3'-0" (914)
2500	Plan 1	8'-4" (2540)	5'-9" (1753)	17'-0" (5182)	7'-0" (2134)	5'-1" (1549)	6'-8" (2032)	4'-3" (1295)	3'-6" (1067) / 3'-6" (1067)
(1134 kg)	Plan 2	8'-4" (2540)	6'-8 ¾" (2051)	17'-0" (5182)	7'-0" (2134)	5'-8 ¼" (1734)	6'-8" (2032)	4'-3 ½" (1308)	3'-6" (1067) / 3'-6" (1067)
3000	Plan 1	8'-4" (2540)	6'-3" (1905)	17'-0" (5182)	7'-0" (2134)	5'-7" (1702)	6'-8" (2032)	4'-9" (1448)	3'-6" (1067) / 3'-6" (1067)
(1361 kg)	Plan 2	8'-4" (2540)	7'-2 ¾" (2203)	17'-0" (5182)	7'-0" (2134)	6'-2 ¼" (1886)	6'-8" (2032)	4'-9 ½" (1460)	3'-6" (1067) / 3'-6" (1067)
3500	Plan 1	8'-4" (2540)	6'-11" (2108)	17'-0" (5182)	7'-0" (2134)	6'-3" (1905)	6'-8" (2032)	5'-5" (1651)	3'-6" (1067) / 3'-6" (1067)
(1588 kg)	Plan 2	8'-4" (2540)	7'-10 ¾" (2407)	17'-0" (5182)	7'-0" (2134)	6'-10 ¼" (2089)	6'-8" (2032)	5'-5 ½" (1664)	3'-6" (1067) / 3'-6" (1067)
4000 IBC	Plan 1	9'-4" (2845)	6'-11" (2108)	19'-0" (5791)	8'-0" (2438)	6'-3" (1905)	7'-8" (2337)	5'-5" (1651)	4'-0" (1219) / 3'-6" (1067) ****
(1814 kg)	Plan 2	9'-4" (2845)	7'-10 ¾" (2407)	19'-0" (5791)	8'-0" (2438)	6'-10 ¼" (2089)	7'-8" (2337)	5'-5 ½" (1664)	4'-0" (1219) / 3'-6" (1067) ****



Fleetwood 2100lb
Marquis 2500lb
Seville 3000/3500lb
Kingswood 4000lb

To install the best elevator, first you must make the best elevator. At ThyssenKrupp Elevator, we don't rely on other manufacturers to develop and supply the major components of our elevator systems. We're not the assemblers. We manufacture the major components of our elevators to ensure that our strict quality standards are met. By making quality control inherent in every step of the process, we provide you with a more reliable and durable end product.

Notes

(1) * Speeds and travel (T) limitations may vary depending upon model and specific job requirements.
(2) ** Pit (P): 5'-2" (1575) in Ontario.
(3) *** If rule 2.14.1.7.1 of the ASME A17.1 safety code applies, and car top railing is required, then clear Overhead (O) requirements become 12'-5" (3785) up to 100 fpm (0.5 m/s) and 12'-8" (3861) over 100 fpm (0.5 m/s).
(4) **** To meet the requirements of IBC Code for 84" (2134) stretchers, a 4'-0" (1219) Center-Opening or 3'-6" (1067) Side-Slide (Single-Speed) door is required. Contact your local TKE office for Code requirements in your jurisdiction.
(5) Hole depth (X) = Actual Travel (T) + 6'-0" (1829).
(6) Safety beam (U) required per OSHA 1926.502, provided and installed by others, as directed by the local TKE office. Clear overhead is shown to the bottom of the safety beam. If safety beam (by others) are used, they must not encroach into required clear overhead dimensions.
(7) Ladder to Pit (P) by others.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

The Conventional Series
Holed Pre-Engineered Patient-Care Applications

Features

Max Travel (T)
79'-0" (24080) **

Max Landings
8

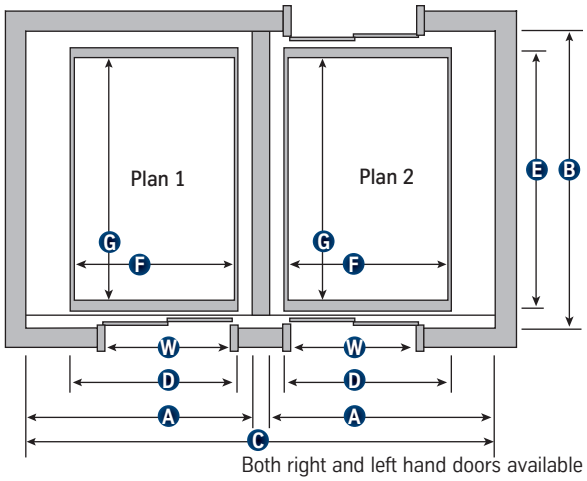
Speeds
80 (0.4 m/s), 100 (0.5 m/s)
125 (0.63 m/s), 150 (0.76 m/s)
175 (0.9 m/s) & 200 (1.0 m/s) **

Cab Height (I)
7'-11" (2413) high

Entrance Height (J)
7'-0" (2134) high

Minimum Overhead (O)
12'-0" (3658)
up to 100 fpm (0.5 m/s) ****
12'-3" (3734)
over 100 fpm (0.5 m/s) ****

Minimum Pit (P)
4'-0" (1219) ***



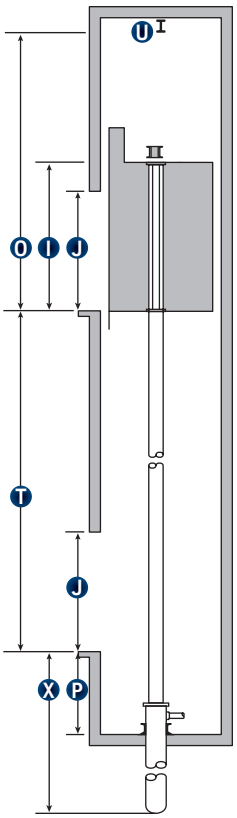
Both right and left hand doors available

Conventional Series Holed Pre-Engineered for Patient-Care Facilities

Capacity in pounds		(A) Hoistway Width	(B) Hoistway Depth	(C) Duplex Hoistway Width	(D) Platform Width	(E) Platform Depth	(F) Clear Inside Width	(G) Clear Inside Depth	(H) Door Opening Width [Standard/Optional] *
4500	Plan 1	7'-4" (2235)	9'-6 ½" (2908)	15'-0" (4572)	6'-0" (1829)	8'-9" (2667)	5'-8" (1727)	7'-9 ½" (2375)	4'-0" (1219) / 4'-6" (1372) *
(2021 kg)	Plan 2	7'-4" (2235)	10'-9 ¼" (3283)	15'-0" (4572)	6'-0" (1829)	9'-5 ¾" (2889)	5'-8" (1727)	7'-10" (2388)	4'-0" (1219) / 4'-6" (1372) *
5000	Plan 1	7'-4" (2235)	10'-2" (3099)	15'-0" (4572)	6'-0" (1829)	9'-4 ½" (2858)	5'-8" (1727)	8'-5" (2565)	4'-0" (1219) / 4'-6" (1372) *
(2268 kg)	Plan 2	7'-4" (2235)	11'-4 ¾" (3473)	15'-0" (4572)	6'-0" (1829)	10'-1 ¼" (3080)	5'-8" (1727)	8'-5 ½" (2578)	4'-0" (1219) / 4'-6" (1372) *
5000H AIA	Plan 1	7'-4" (2235)	10'-9" (3277)	15'-0" (4572)	6'-0" (1829)	9'-11 ½" (3035)	5'-8" (1727)	9'-0" (2743)	4'-0" (1219) / 4'-6" (1372) *
(2268 kg)	Plan 2	7'-4" (2235)	11'-11 ¾" (3651)	15'-0" (4572)	6'-0" (1829)	10'-8 ¼" (3258)	5'-8" (1727)	9'-0 ½" (2756)	4'-0" (1219) / 4'-6" (1372) *

Continental 4500
Continental 5000
Continental 50H

Our Kingswood (see page 17) and Continental models offer economical, dependable service to hospitals, nursing homes and other buildings that require more platform area for transporting gurneys or equipment. Our Conventional Series is designed in these pre-engineered plans to meet the specific needs of your project.



Notes
(1) * Hoistway Width for optional 4'-6" (1372) Two-Speed door is 8'-2" (2489). Duplex Hoistway Width for optional 4'-6" (1372) door width is 16'-8" (5080).
(2) ** Speeds and travel (T) limitations may vary depending upon specific job requirements.
(3) *** Pit (P): 5'-2" (1575) in Ontario.
(4) ****If rule 2.14.1.7.1 of the ASME A17.1 safety code applies, and car top railing is required, then clear Overhead (O) requirements become 12'-5" (3785) up to 100 fpm (0.5 m/s) and 12'-8" (3861) over 100 fpm (0.5 m/s).
(5) Hole depth (X) = Actual Travel (T) + 6'-0" (1829).
(6) Safety beam (U) required per OSHA 1926.502, provided and installed by others, as directed by the local TKE office. Clear overhead is shown to the bottom of the safety beam. If safety beam (by others) are used, they must not encroach into required clear overhead dimensions.
(7) Ladder to Pit (P) by others.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

Machine Room Requirements
For Oildraulic Pre-Engineered Models

ThyssenKrupp Elevator's Pre-Engineered Oildraulic systems come in a wide variety of speeds, capacities and travel heights. These options determine the size and horsepower of the power unit, which in turn determines the size of the machine room. The most desirable machine room location is on the lowest floor served, adjacent to the elevator hoistway. It may, however, be located remote from the hoistway, if necessary. Please contact your local ThyssenKrupp Elevator representative for assistance in selecting the proper equipment and determining the space requirements for your building.

Single Car Machine Room Dimensions*

		A	B	C[1]
EP1 Power Unit	(ft-in)	6'-5"	6'-1"	3'-6"
	(mm)	1956	1854	1067
EP2 Power Unit	(ft-in)	7'-2"	7'-1 ½"	4'-0"
	(mm)	2184	2172	1219
AP1[2] Power Unit	(ft-in)	7'-10"	5'-6"	3'-6"
	(mm)	2388	1676	1067
AP2[2] Power Unit	(ft-in)	9'-10"	5'-6"	4'-0"
	(mm)	2997	1676	1219

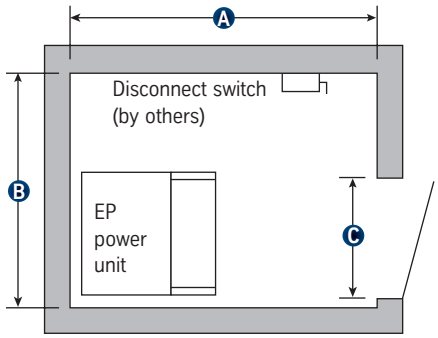
1 Clear opening
2 AP1 units pump up to 215 gallons (814 L) per minute. AP2 units pump from 216 gallons (818 L) to 350 gallons (1325 L) per minute.
* Dimensions may vary based on job specific requirements.

Dual Car Machine Room Dimensions*

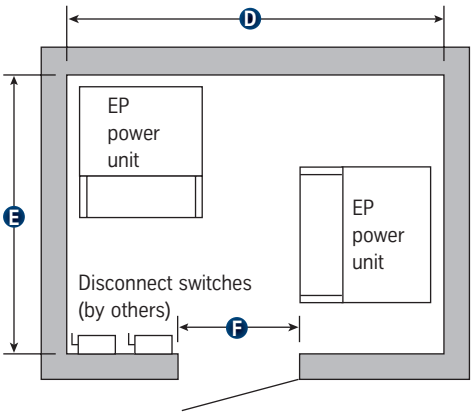
		A	B	C[1]
EP1 Power Unit	(ft-in)	9'-5"	9'-5"	3'-6"
	(mm)	2870	2870	1067
EP2 Power Unit	(ft-in)	10'-5 ½"	10'-5 ½"	4'-0"
	(mm)	3188	3188	1219
AP1[2] Power Unit	(ft-in)	10'-8"	6'-6"	3'-6"
	(mm)	3251	1981	1067
AP2[2] Power Unit	(ft-in)	14'-7"	7'-0 ¾"	4'-0"
	(mm)	4445	2153	1219

1 Clear opening
2 AP1 units pump up to 215 gallons (814 L) per minute. AP2 units pump from 216 gallons (818 L) to 350 gallons (1325 L) per minute.
* Dimensions may vary based on job specific requirements.

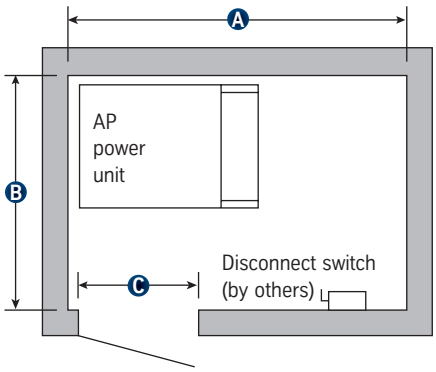
Single Car With EP Submersible



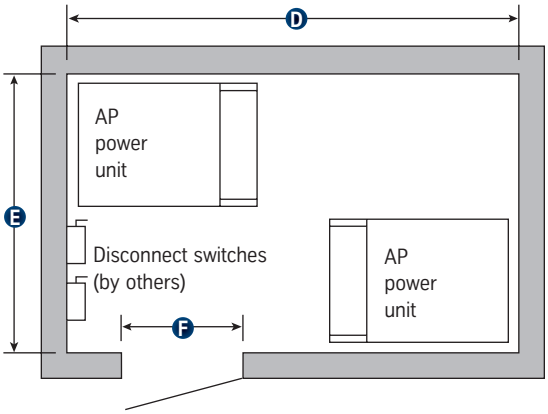
Two Cars With EP Units



Single Car With AP Unit



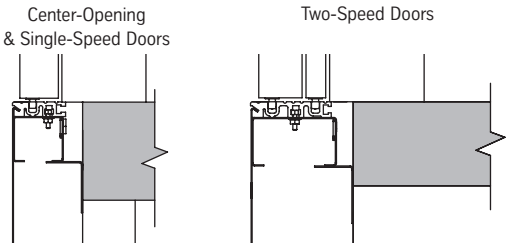
Two Cars With AP Units



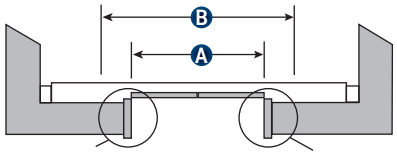
Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

Passenger Elevator Door
ThyssenKrupp Entrance Details

Sill Support Supplied by ThyssenKrupp Elevator

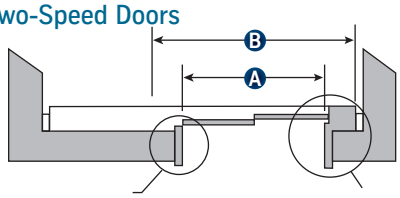


Center-Opening Doors



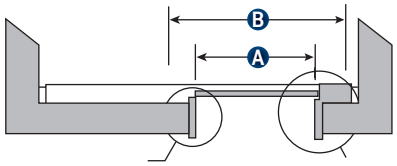
Detail 1 (typ.) Detail 1 (typ.)

Two-Speed Doors



Detail 1 (typ.) Detail 2 (typ.)

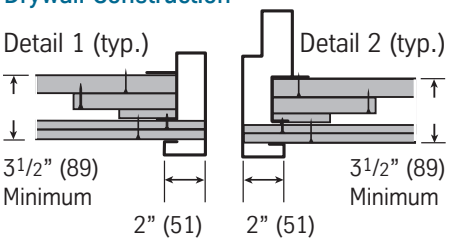
Single-Speed Doors



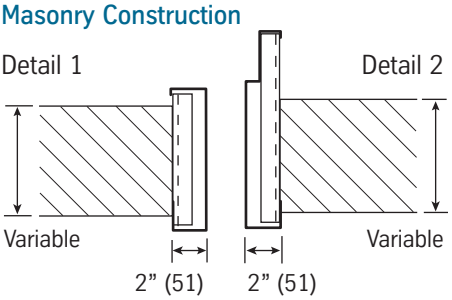
Detail 1 (typ.) Detail 2 (typ.)

Right hand entrance shown.
Left hand available where required.

Drywall Construction

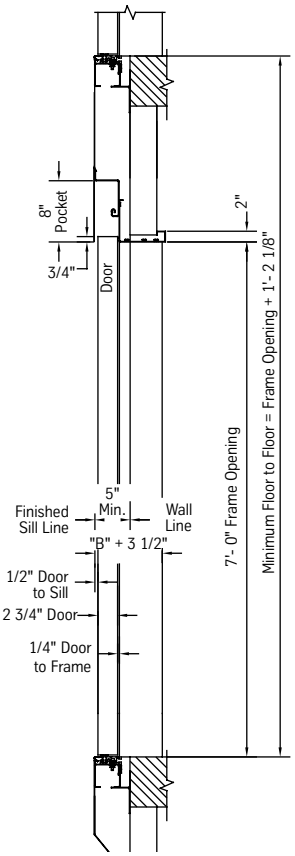


Masonry Construction

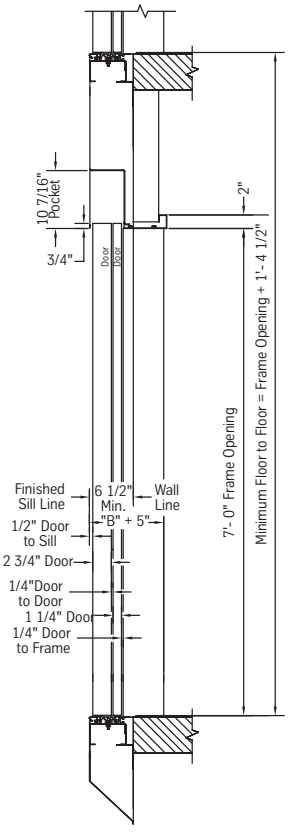


Entrance Details			
Single-Speed Doors		**A - Clear Opening**	**B - Rough Opening**
All 2100lb models	(ft-in)	3'-0"	4'-3"
	(mm)	914	1295
All 2500, 3000, 3500,	(ft-in)	3'-6"	4'-9"
and 4000lb models	(mm)	1067	1448
Center-Opening Doors			
All 2500, 3000,	(ft-in)	3'-6"	4'-9"
and 3500lb models	(mm)	1067	1448
4000lb models	(ft-in)	4'-0"	5'-3"
(optional)	(mm)	1219	1600
Standard Two-Speed Doors			
All 4500, 5000lb	(ft-in)	4'-0"	5'-3"
and 50H models	(mm)	1219	1600
Optional Two-Speed Doors (4'-6" Wide)			
All 4500, 5000lb	(ft-in)	4'-6"	5'-9"
and 50H models	(mm)	1372	1753

Center-Opening & Single-Speed Doors



Two-Speed Doors

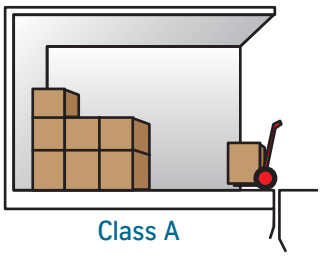


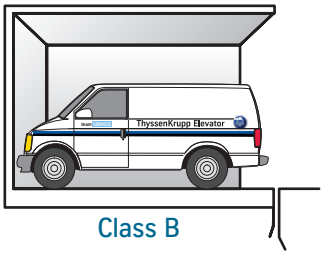
Note: Front walls should be left out until entrances are set in place or leave a minimum rough opening that is 15" (381) wider and 15" (381) higher than frame opening of doorway.

Note: For openings over 8'-0" (2438) consult factory.

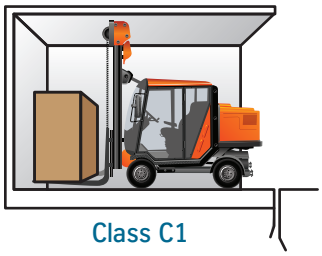
Note: These diagrams show wall thickness and construction detail required in order to supply a minimum 1 ½ HR. Warnock Hersey Label on entrances. Contact your local ThyssenKrupp Elevator representative for additional details.

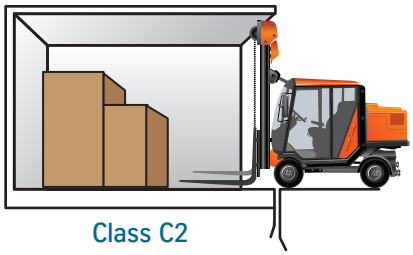
Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

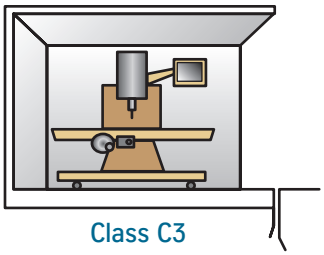

Class A



Class B


Class C1


Class C2


Class C3

Standard Features:

- 14-gauge steel wall panels to full car height
- Solid metal 14-gauge top with safety exit
- Vertical counter-balanced car gates of 10-gauge welded wire mesh, reinforced with bar stock (suitable for applications with manual door operation only). Manual gates include weight boxes of 11 gauge sheet steel with built-in guides and removable weight access panel
- Non-skid steel platform

Our custom capabilities enable us to construct practically any design you require, including special NEMA enclosures, hardwood flooring, special gauge walls and ceilings and special paints. We also offer vandal resistant fixtures for added durability. ThyssenKrupp Elevator's design staff is ready to customize an elevator, from control system to fixtures, to meet the special demands of your project.

By integrating highly advanced digital technology, ThyssenKrupp Elevator TAC controllers are ready to operate efficiently day in and day out, year after year. In our manufacturing facilities, components are tested after each stage of construction and then tested again as a complete unit before being shipped. This ensures consistent performance for years of dependable service.

Capacity and loading requirements.

Your local ThyssenKrupp Elevator representative will assist with determining your elevator's size, capacity and speed for the most efficient and economical operation possible. All ThyssenKrupp Elevator applications are designed and manufactured strictly in agreement with ANSI A17.1 and the Canadian Standards Association (CSA/CAN-B44-94) according to the following loading classifications:

Class A: General Freight Loading.

Where the load is distributed, the weight of any single piece is not more than 1/4 the capacity of the elevator and the load is handled on and off the car platform manually or by means of hand trucks.

Class B: Motor Vehicle Loading.

The freight elevator is used solely to carry automobile trucks or passenger automobiles up to the rated capacity of the elevator.

Class C1: Industrial Truck Loading.

A four-wheeled vehicle may be used to load and unload the elevator. The combined weight of the vehicle and the load cannot exceed the rated capacity and may be rolled onto the platform as a single unit.

Class C2: Industrial Truck Loading.

During loading and unloading, max load on the platform may be up to 150% of the rated capacity. This enables you to use a forklift to load a car with freight weighing up to the rated capacity.

Class C3: Other forms of Industrial Truck Loading.

During the loading and unloading process, the rated capacity must never be exceeded.

The following requirements shall apply to Class C1, C2 and C3:

The capacity of the elevator shall be not less than the load (including any truck) to be carried and shall in no case be less than 50 lb/ft^2 (244.10 kg/m^2) of the inside net platform area. The elevator shall be provided with two-way automatic leveling.

For Class C1 and C2, the following additional requirements shall apply:

For elevators with a capacity up to 20,000 lbs (9,072 kg), the car platform shall be designed for a loaded truck of weight equal to the capacity or for the actual weight of the truck to be used, whichever is greater. For elevators with a capacity exceeding 20,000 lbs (9,072 kg), the car platform shall be designed for a loaded truck of that weight or for the actual weight of the loaded truck to be used, whichever is greater.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

Freight Elevators
Common Sizes and Capacities

Features

Speeds
Oildraulic: 50 fpm (0.24 m/s),
75 fpm (0.38 m/s), 100 fpm (0.5 m/s)
Traction: 100 fpm (0.5 m/s),
150 fpm (0.75 m/s), 200 fpm (1.0 m/s)

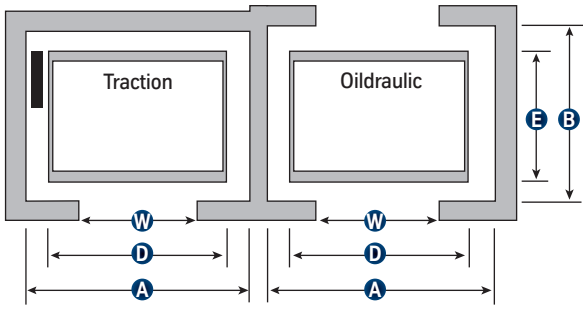
Cab Height (I)
8'-0" (2438) high

Entrance Height (J)
8'-0" (2438) high

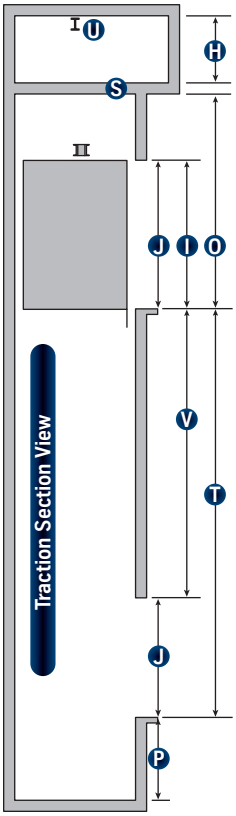
Minimum Spandrel Space (V)
4'-6" (1372) for regular type door
2'-0" (610) for pass type door

Minimum Overhead (O)
Oildraulic: 14'-9" (4496) ****
Traction: 17'-2" (5232) ****

Minimum Pit (P)
Oildraulic: 4'-6" (1372)
Traction: 5'-6" (1676)



Oildraulic & Traction Freight Elevators							
Capacity in pounds		(A) Oildraulic Hoistway Width *	(A) Traction Hoistway Width	(B) Hoistway Depth	(D) Platform Width	(E) Platform Depth	(W) Door Opening Width
2500	Plan 1	7'-2" (2184) **	7'-10" (2388) **	7'-8" (2337) ***	5'-4" (1626)	7'-0" (2134)	5'-0" (1524)
(1134 kg)	Plan 2	7'-2" (2184) **	7'-10" (2388) **	7'-11" (2413) ***	5'-4" (1626)	7'-0" (2134)	5'-0" (1524)
4000	Plan 1	10'-2" (3099) **	10'-10" (3302) **	10'-8" (3251) ***	8'-4" (2540)	10'-0" (3048)	8'-0" (2438)
(1814 kg)	Plan 2	10'-2" (3099) **	10'-10" (3302) **	10'-11" (3327) ***	8'-4" (2540)	10'-0" (3048)	8'-0" (2438)
5000	Plan 1	10'-2" (3099) **	10'-10" (3302) **	10'-8" (3251) ***	8'-4" (2540)	10'-0" (3048)	8'-0" (2438)
(2268 kg)	Plan 2	10'-2" (3099) **	10'-10" (3302) **	10'-11" (3327) ***	8'-4" (2540)	10'-0" (3048)	8'-0" (2438)
6000	Plan 1	10'-2" (3099) **	10'-10" (3302) **	10'-8" (3251) ***	8'-4" (2540)	10'-0" (3048)	8'-0" (2438)
(2722 kg)	Plan 2	10'-2" (3099) **	10'-10" (3302) **	10'-11" (3327) ***	8'-4" (2540)	10'-0" (3048)	8'-0" (2438)
8000	Plan 1	10'-2" (3099) **	11'-0" (3353) **	12'-8" (3861) ***	8'-4" (2540)	12'-0" (3658)	8'-0" (2438)
(3629 kg)	Plan 2	10'-2" (3099) **	11'-0" (3353) **	12'-11" (3937) ***	8'-4" (2540)	12'-0" (3658)	8'-0" (2438)
10,000	Plan 1	10'-2" (3099) **	11'-0" (3353) **	14'-8" (4470) ***	8'-4" (2540)	14'-0" (4267)	8'-0" (2438)
(4536 kg)	Plan 2	10'-2" (3099) **	11'-0" (3353) **	14'-11" (4547) ***	8'-4" (2540)	14'-0" (4267)	8'-0" (2438)



Notes

(1) * Oildraulic: Subtract 6" (152) if manual doors are used.

(2) ** Seismic conditions for Oildraulic: 2500 lb (1134 kg) add 4" (102) for manual gates. 4000 lb (1814) – 10,000 lb (4536 kg) add 4" (102) for power gates, add 6" (152) for manual gates. Seismic conditions for Traction: 2500 lb (1134 kg) thru 6000 lb (2722 kg) add 2" (51). 8000 lb (3629 kg) & 10,000 lb (4536 kg) add 4" (102).

(3) *** For Plan 1 add 1 ¾" (44) if pass type doors are used. For Plan 2 add 3 ½" (89) if pass type doors are used.

(4) **** Oildraulic: Subtract 12" (305) if 7'-0" (2134) clear opening height doors and cab height are used. Traction: Subtract 6" (152) if 7'-0" (2134) clear opening height doors and cab height are used. All Pit (P) and Overhead (O) dimensions shown are for power operated doors of the regular type with 8'-0" (2438) clear opening height and enclosure height. Changes required if other than above.

(5) Traction only: Hoistway dimensions are based on 1" (25) out of plumb and no occupied space below hoistway. If these conditions cannot be met, then consideration must be given for additional required space.

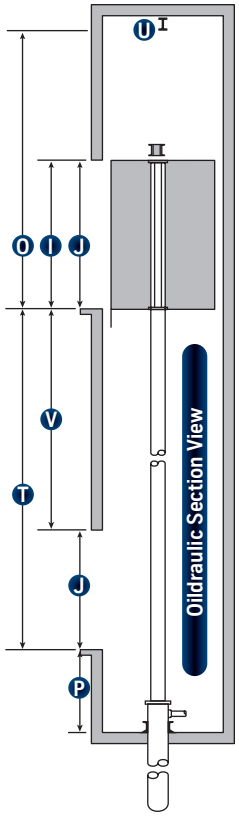
(6) Traction only: Concrete structural support slab (S) by others. Machine room floor to support all elevator machine loads and floor loads per ASME A171.1. Machine Room temperature range 50 degrees F. Min., 90 degrees F. Max. 10% - 90% Non-Condensing Relative Humidity.

(7) Safety beam (U) required per OSHA 1926.502, provided and installed by others, as directed by the local TKE office. Clear overhead is shown to the bottom of the safety beam. If safety beam (by others) are used, they must not encroach into required clear overhead dimensions.

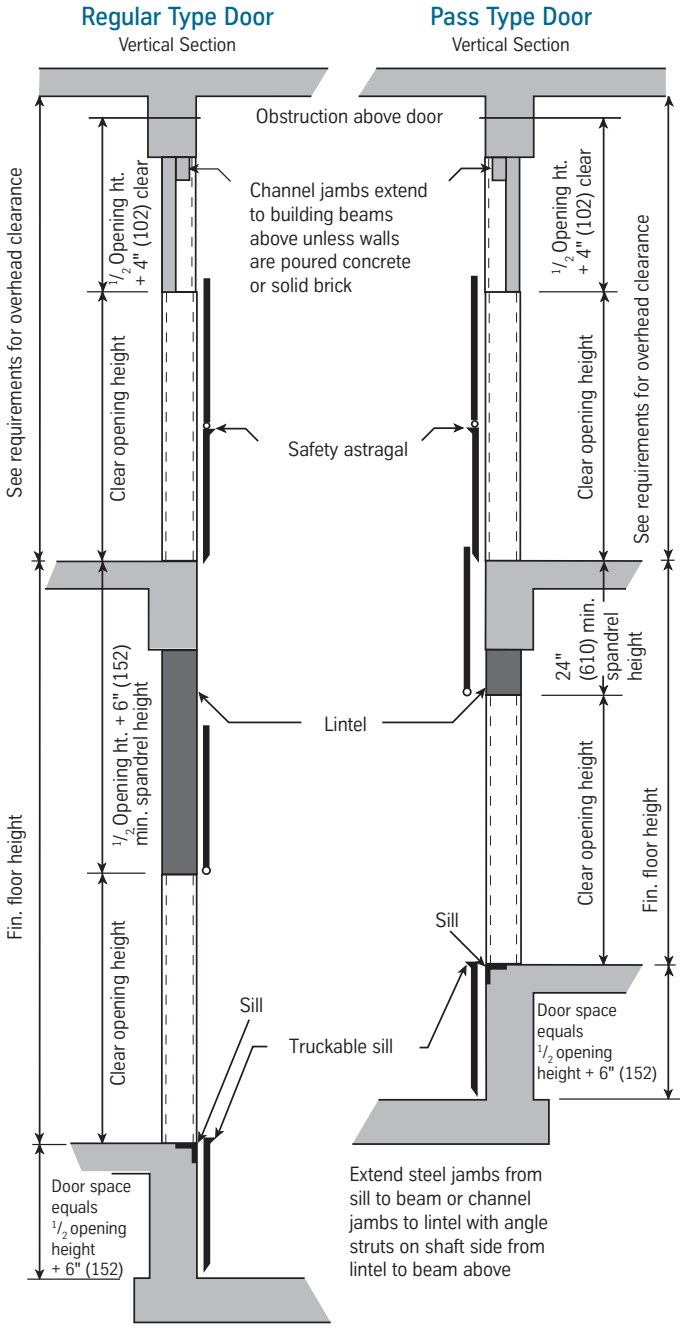
(8) Ladder to Pit (P) by others.

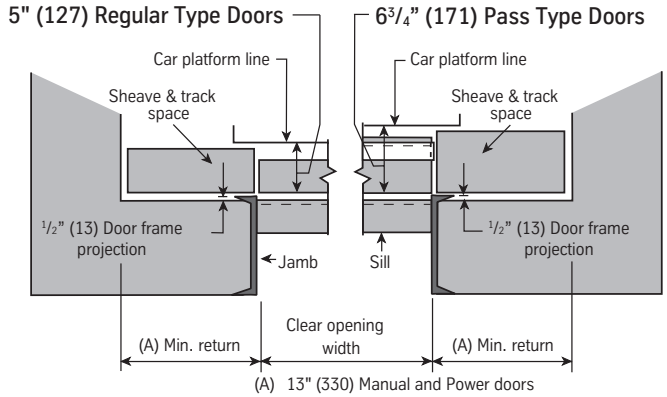
Oildraulic Power unit (machine) location:

The most desirable machine room location is on the lowest landing, adjacent to the elevator hoistway. It may, however, be located remote from the hoistway if necessary. A larger area is required when two or more power units are used or for two elevators with a common machine room, etc. An enclosure to meet local code requirements must be provided. A sound-isolated machine room is recommended for quietest operation. Adequate heating and ventilation of machine spaces must be provided.



Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.





ThyssenKrupp Elevator has a wide choice of freight door options. Counterbalanced, vertical bi-parting doors are recommended to provide the greatest fire protection. All counterbalanced doors have a truckable sill to provide a smooth trucking surface from building sill to elevator platform. Power operation is desirable for doors and car gates in heavy traffic applications. Manual operation is suggested for economy where usage is infrequent. Door frames, power entrances and car gates, lintels and sills are to be furnished by the general contractor.

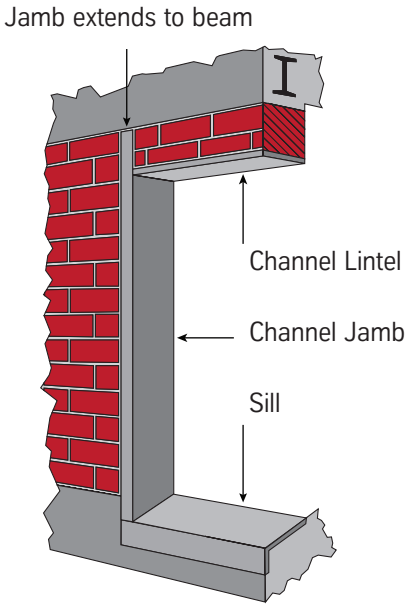
Manual Car Gates For Dependable Service.

ThyssenKrupp Elevator's all-steel manual car gates are counterweighted and fitted with ball bearings and nonmetallic sheaves for quiet, smooth effortless handling. Offset guideposts allow full car-width opening.

Manual gates are constructed of T-section frames with 1.5" mesh, 10 gauge-expanded metal panels and strength exceeding ANSI/ASME A17.1 specifications. Both single and double blade gates are offered, as well as, motorized gates for elevators with heavy traffic flow. Hoistway doors and gates can have power or manual operation. Power car gates are provided by the general contractor.

Vertical bi-parting steel hoistway doors are counterbalanced. When opened, the lower door section forms a smooth trucking sill between hoistway floor and elevator car. This reinforced sill will support all wheel loads that the elevator is designed to handle.

Jamb and Sill Detail



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Planning for Perfection
Escalator and Moving Walk Overview

Commercial Duty Escalators

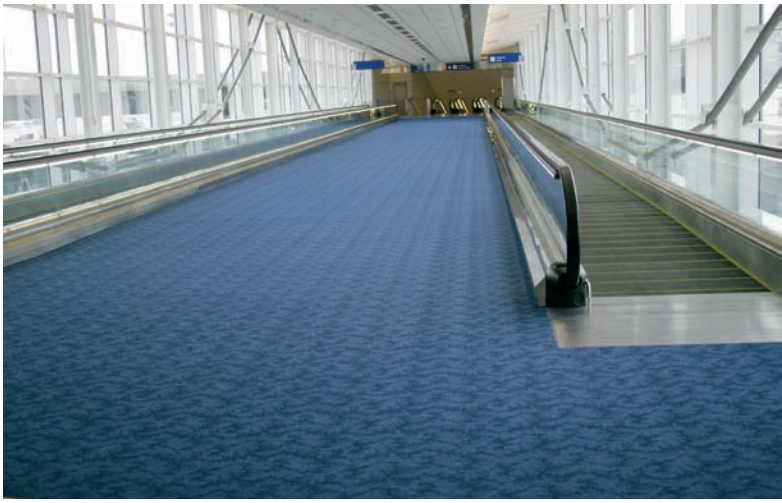
Two models, one distinction. More design features for modern buildings, including under-handrail lighting, stainless steel or custom powder-coated finishes. All models combine attractive design with the latest escalator technology for increased comfort and safety. Available for both indoor and outdoor applications.

Heavy Duty Escalators

Never have high-traffic escalators looked so good. Whether with a glass or metal balustrade, the heavy-duty models are made to direct the traffic of tomorrow. Economical, robust, and featuring advanced technology, our heavy-duty line is designed specifically for high-traffic, higher-rise institutional applications. Available for both indoor and outdoor applications.

Transit Duty Escalators

Our most powerful model. Extremely capable and designed for reliable 24-hour service, this escalator was designed for subway and other extreme high-traffic applications, designed with travel heights up to 165'-0" (50 m). Fully APTA (American Public Transit Association) compliant. Available for both indoor and outdoor applications.



Moving Walks

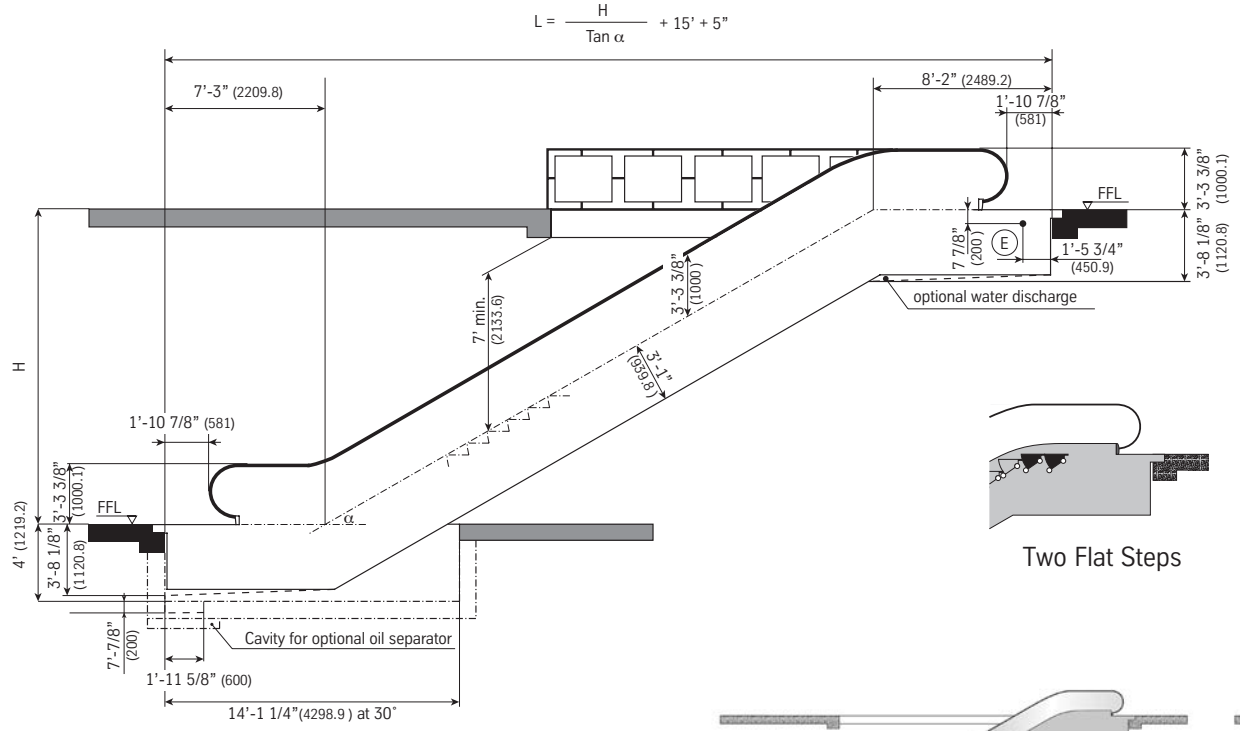
A range of lighting systems and balustrade profiles make ThyssenKrupp moving walks the perfect complement for shopping malls, exhibition centers and airports. Its innovative design, coupled with state-of-the-art engineering and technology, gives it exemplary qualities for adapting to the prevailing architecture. Available for both indoor and outdoor applications

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

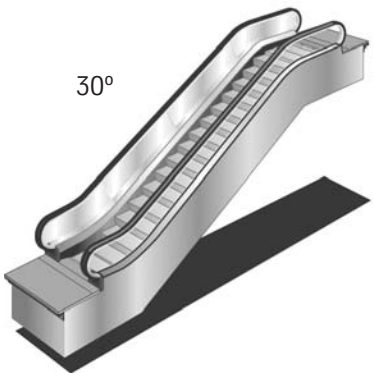
Theoretical Capacity	
Step Width	Passengers/hour
24" (610)	4500
32" (813)	6750
40" (1016)	9000

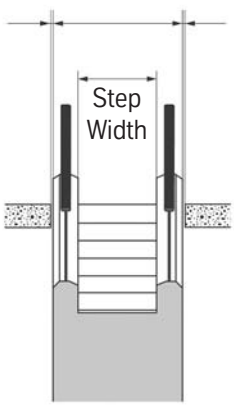
Escalator Widths	
Step Width	Escalator Widths
24" (610)	3'-3 ¼" (997)
32" (813)	4'-4 ¼" (1327)
40" (1016)	5'-0 ¼" (1530)

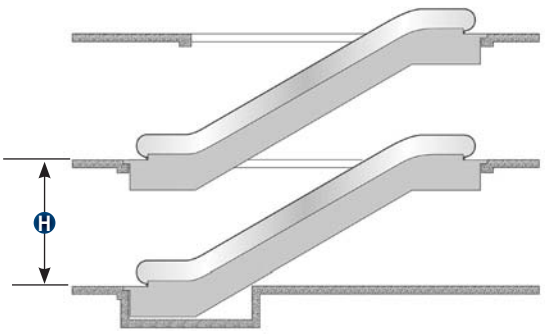
Escalator Dimensions and Data				
	Angle	Max Rise (H)	Usage	Step Width
Velino	30°	Up to 33' (10.5m)	Commercial	24" (610mm)
				32" (813mm)
				40" (1016mm)
Tugela	30°	Up to 65'-7" (20m)	Heavy Duty Traffic	24" (610mm)
				32" (813mm)
				40" (1016mm)
Victoria	30°	164' (50m)	Transit Duty	24" (610mm)
				32" (813mm)
				40" (1016mm)



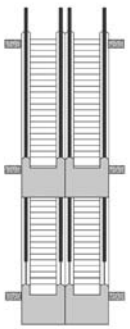
Two Flat Steps



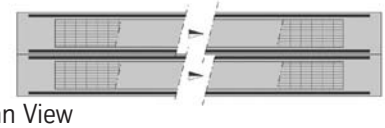




Side View



Front Cross-Section from Floor to Floor



Plan View

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

Orinoco

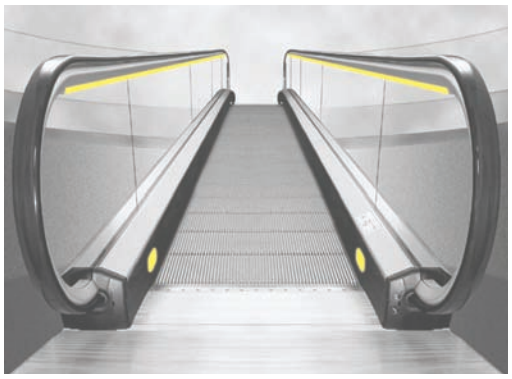
A range of lighting systems and balustrade profiles make the ThyssenKrupp passenger conveyor the perfect complement for shopping malls, exhibition centers and airports. Its innovative design coupled with state-of-the-art engineering and technology give it exemplary qualities for blending into the prevailing architecture.

Inclination and Rise			
Escalator	Angle of inclination	Length	Rise (12°)
Orinoco FS 982/983	0-6°, 10°, 12° (Max.)	Up to 656'-2" (200 m)	Up to 29'-7" (9 m)1

Theoretical Capacity		
Nominal Pallet Width	Passengers per hour 100 f/m (0.5 m/s	Passengers per hour 125 f/m (0.65 m/s)
32" (800 mm)	6750	8775
40" (1000 mm)	9000 or 900 C/h2	11700
48" (1200 mm)	11250 or 900 C/h2 + 3000	14625
56" (1400 mm)	13500 or 900 C/h2 + 4500	17550
64" (1600 mm)	15750 or 900 C/h2 + 6750	20475

Lighting Options

In order for passengers to step safely onto moving walks, the step or pallet band must be adequately lit. The ambient building lighting must be at least 50 Lux along all parts of the step band. ThyssenKrupp additionally offers various additional lighting options.



At the comb-plates (comb-plate lighting) with above the balustrade (under handrail)

Note: Yellow highlights are for placement only, actual lighting is white.

Integrated in the skirt band (skirt lighting)

Note: Yellow highlights are for placement only, actual lighting is white.

1. Shopping carts per hour (includes. 1 "operator": cart length 40" (1 m) and width 24" (0.6 m)
2. Greater transport lengths or rises on request

Note: A maximum inclination of 12° is permitted for moving walks. If the pallet width exceeds 40" (1000 mm), a maximum inclination of 6° is permitted by code.

Note: For moving walks with 0° inclination, a maximum pallet width of 64" (1600 mm) is permitted.

Note: All dimensions in parentheses are in millimeters unless otherwise indicated. Dimensional data shown here complies with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your local ThyssenKrupp Elevator representative for details.

Work Not Included in the Elevator Contract*

The following preparatory work is required in order to properly install the elevator equipment. The cost of this work is not included in the elevator proposal, since it is a part of the building construction.

1. A plumb and legal hoistway, properly framed and enclosed and including a pit of proper depth, and a pit ladder for each elevator. Drains, lights, access doors, waterproofing and hoistway ventilation, as required.
2. Enclosed elevator equipment room with electrical work outlets, adequate lighting, and heating and ventilation sufficient to maintain the room at a temperature of 50°F minimum to 100°F maximum.
3. Adequate supports and foundations to carry the loads of all equipment, including supports for guide rail brackets.
4. Complete connections from the electric power mains to each controller, including necessary circuit breakers and fused mainline disconnect switches.
5. Electric power of the same characteristics as the permanent supply without charge for the construction, testing and adjusting.
6. Proper trenching and backfilling for any underground piping or conduit.
7. Divider beams for rail brackets support as required.
8. Cutting of walls, floor, etc. and removal of such obstructions as may be necessary for proper installation of the elevator.
9. Grouting of door sills, hoistway frames, and signal fixtures after installation of the elevator equipment.
10. All painting, except as otherwise specified.
11. Temporary enclosures, barricades, or other protection from open hoistways and elevator work area during the time the elevator is being installed.
12. Temporary elevator service prior to completion and acceptance of complete installation.
13. Smoke sensors as required in accordance with NFPA**#72E and ASME A17.1.***
14. All telephone wiring to machine room control panel, and installation of telephone instrument or other communication equipment in elevator cab with all connections to elevator traveling cable and in machine room.
15. A standby power source, including necessary transfer switches and auxiliary contact, where elevator operation from an alternate power supply is required.
16. Adequate storage facilities for elevator equipment prior to and during installation.
17. A means to automatically disconnect the main line power supply to the elevator prior to the application of water in the elevator machine room will be furnished by the electrical contractor. This means shall not be self-resetting.
18. Setting of anchors and sleeves.

Work Not Included in the Escalator and Moving Walk Contract*

1. Provision of proper building dimensions and suitable floor openings, properly framed with suitable reactions and finished in accordance with escalator and moving walk shop drawings. Variations not to exceed 1" at any point.
2. Supporting structure for the escalators, moving walk and enclosure walls, external railings, guards, closures, shutters and smoke barriers as required.
3. Waterproof lower well space and provide lower pit drainage (as required).
4. Fire-rated exterior cladding of truss and finish from the edges of escalator and moving walk deck covers, including ends, sides and bottom of truss in accordance with applicable and standard weight restrictions. (max. 10 lbs. per square foot)
5. Access panels or doors to interior of escalator and moving walk if required by unusual layout conditions.
6. Provision of flexible in-fill and finished flooring adjacent to floor plates and escalator and moving walk after installation.
7. Cutting of floors, walls, ceilings or partitions together with any repairs made necessary by such cutting.
8. Painting and finish work required beyond that included in this Section.
9. Electrical service to upper well including 3 phase main power supply and fused disconnects to each controller. Provide single phase 120 VAC electrical and moving walk service and fused disconnect for light and convenience outlet in the upper well and all other electrical devices that are not a part of the escalator and moving walk proper that may be required by local authorities.
10. Provision of wiring and conduit from the closest wellway of each escalator and moving walk group or single escalator and moving walk to the firefighter's control room and/or console as required. Coordinate with escalator and moving walk contractor for size, number and location of conduit.
11. Other work required for installation of the escalator(s) and moving walk(s) including, but not limited to, required changes to sprinklers, lighting, electrical, air conditioning and heating systems.
12. Provide barriers for open wellways during construction per OSHA Regulations.
13. Protect escalator truss, steps, landing plates balustrades, handrails, and special metal finishes from damage during construction.

* Refer to elevator/escalator/moving walk layout drawings for details of each requirement.
** National Fire Protection Code
*** Safety Code for Elevators and Escalators

online version 03.10

ThyssenKrupp Elevator
P.O. Box 2177
Memphis, TN 38101
Tel: 877-230-0303 (Toll Free)

thyssenkruppelevator.com

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