

OTIS

The established world leader

With more than 1.2 million units installed worldwide, Otis is established as the world's leading manufacturer of escalators, Trav-O-Lator® and elevators. Otis pioneered the first safe elevator and, more than 100 years ago, introduced the world's first escalator.

Today, Otis has major escalator centres operating out of different continents with the world's largest production facility in Stadthagen, Germany.

Pioneering safety measures and ecological initiatives

Substantial and on-going investment in research and development maintains Otis' position as market leader. Indeed many of the technological and safety advances adopted by the industry have been introduced by Otis.

In the same way, Otis is also sensitive to ecological concerns and pursues a steadfast and caring policy towards the environment. Steps are continually being taken to make our products more environmentally friendly both in term of materials used and energy consumption.

Accent on service

With the world's largest network of branch offices and service centres, Otis is able to offer an unrivalled service operation. Sheer scale of operation means as faster response, superior availability and highly trained in-house engineers whose expertise is supported by state-of-the-art technology.

At Otis, emphasis is not just on producing a quality product, but on a quality product that is totally orientated towards our customers and their passengers.



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All data in accordance with the Technical Layout GGA 28361A and GAA 28361B. Otis reserves the right to change any part of this specification without prior notice.



OTIS 610 NPT

Form-Nr. 26-6744-00 (04.01)

OTIS

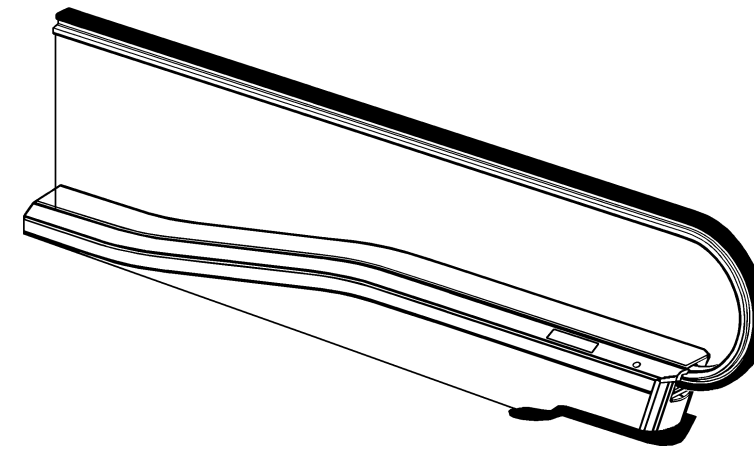
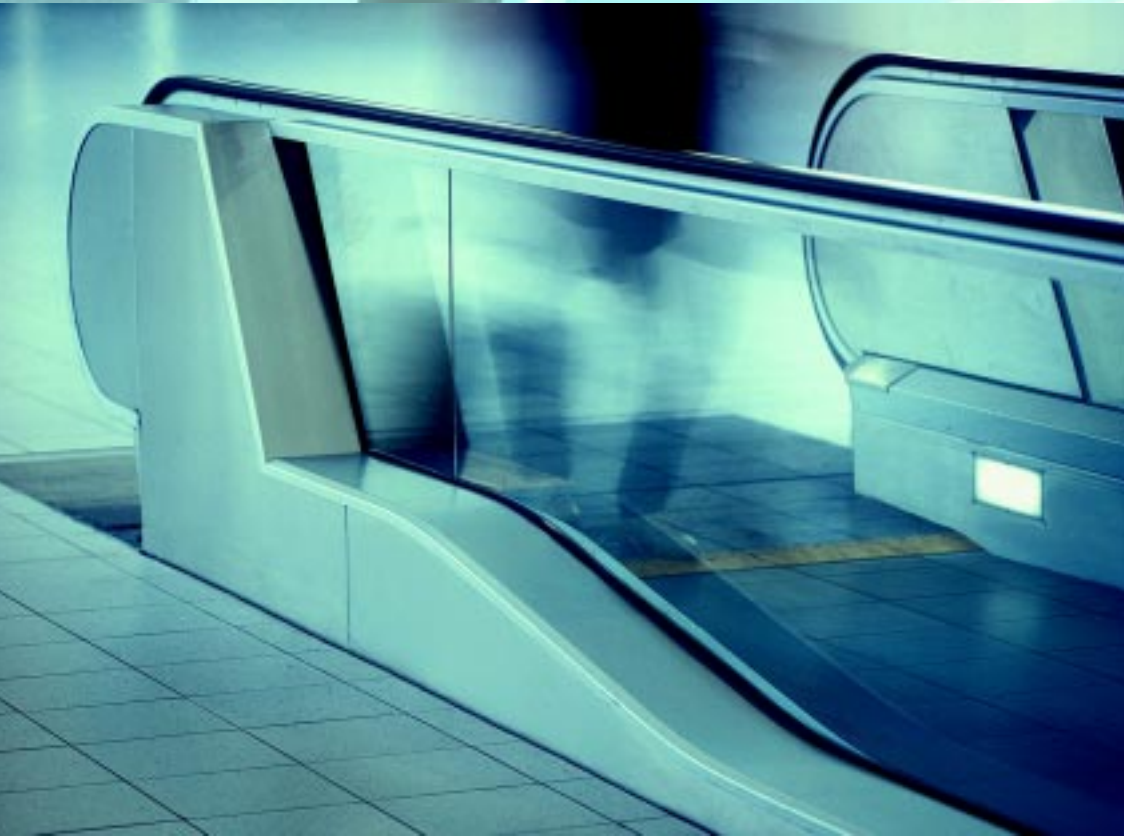
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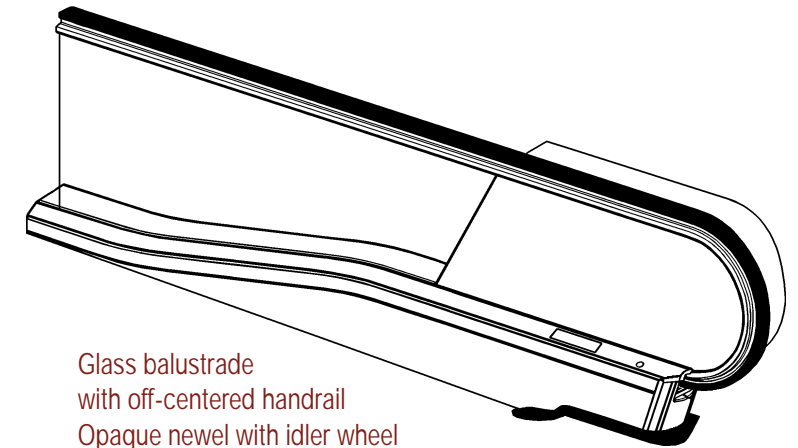
Engineered for safety, designed for reliability

*The design makes the difference.
A Trav-O-Lator® which sets new
standards for airports, metros, fairs,
pedestrian under- and overpasses.*

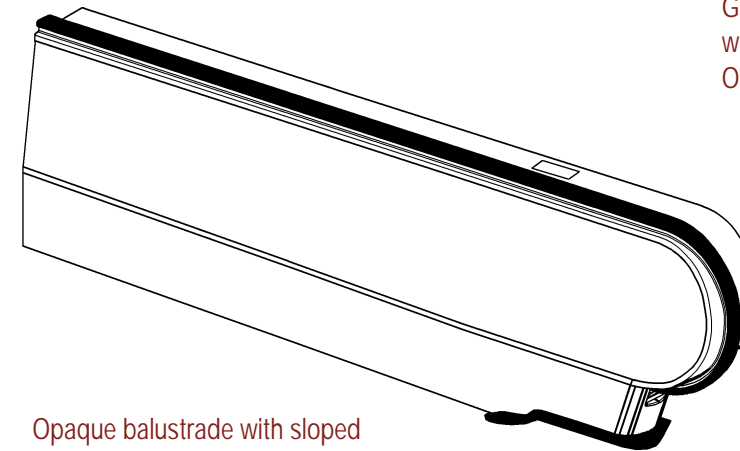
*Safety, elegance, reliability, availability
and lifetime all comply with the highest
requirements of the passenger
transport sector in accordance with all
international codes.*



Glass balustrade with off-centered handrail



Glass balustrade
with off-centered handrail
Opaque newel with idler wheel



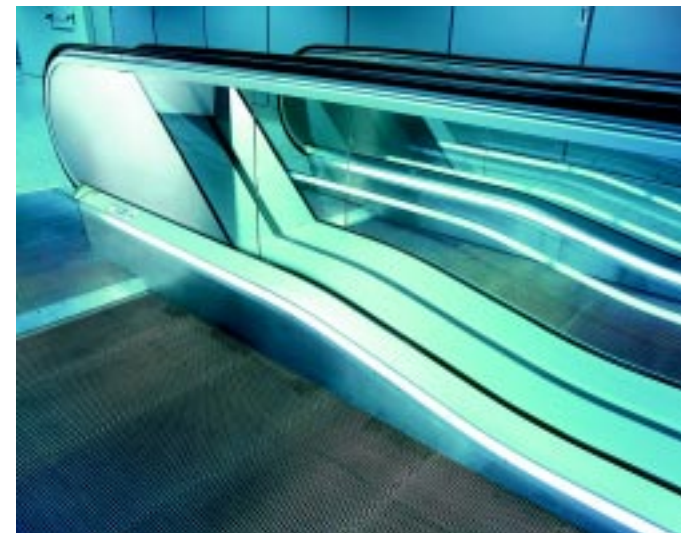
Opaque balustrade with sloped
interior panels and high deck

Aesthetics

Different balustrade designs allow for optimal adaptation to the surroundings.

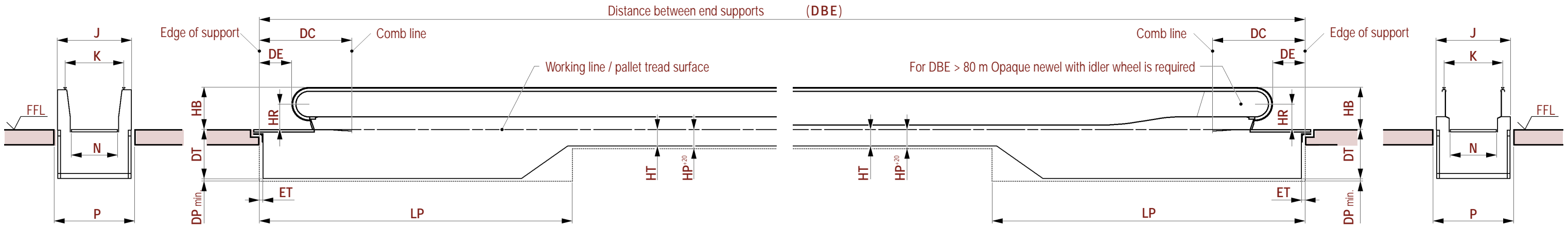
A wide variety of decking finishes, handrail colors, glass or opaque interior panels are all available to blend with the individual building requirements.

Unique to the industry is the availability of different truss (supporting frame) heights in connection with the distance between supports for easy integration into the building conditions.



Opaque Balustrade

Glass Balustrade



NOTE: Take care of water in the pit
 Based on local weather conditions arrange for:
 - Connection of Trav-O-Lator® to local drainage system or pump unit within pit.
 - Float switch to stop Trav-O-Lator® in case of water level exceeds 50 mm within the Trav-O-Lator®.
 - Check need for oil separator
 - In case of connection to local drainage system the dimension DP min = 300 mm (1'-0")

NOTE: Data of tables shown in columns are valid for arrangement according to code EN 115.
 Data of tables shown in columns are valid for arrangement according to code ASME - A 17.1.

Duty table

Machine EC H2										Distance between end supports (DBE)					
EN 115 400 – 415 V 50 HZ IEC 38										Pallet width N					
ASME-A 17.1 400 – 480 V 60 HZ										1000 mm	40'	1200 mm	48'	1400 mm	56'
Nominal		Current				Power		Speed		Length (DBE)		Length (DBE)		Length (DBE)	
Delta	Star	Delta	Star	Delta	Star	kW	HP	m/s	ft/min	m	feet	m	feet	m	feet
A	A	A	A	A	A										
17	13	44,5	32	152	109	7,5	10,2	0,50	100	75	209'-11 11/16"	56	177'-2"	49	154'-2 3/8"
								0,65	125	57	167'-3 7/8"	43	137'-9 9/16"	38	121'-4 11/16"
								0,75	-	49	-	37	-	32	-
25	19,7	47	38	175	132	11,7	15,9	0,50	100	118	324'-9 5/8"	89	262'-5 5/8"	78	232'-11 1/4"
								0,65	125	90	255'-10 7/8"	68	206'-8 5/16"	60	183'-8 3/4"
								0,75	-	78	-	59	-	51	-
30	26	58	51	215	168	15,0	20,4	0,50	100	120	393'-8 7/16"	115	334'-7 3/4"	100	298'-6 11/16"
								0,65	125	116	324'-9 5/8"	88	262'-5 5/8"	77	232'-11 1/4"
								0,75	-	100	-	76	-	66	-
36	30,5	79	48	250	157	18,6	25,3	0,50	100	-	-	120	393'-8 7/16"	120	341'-2 1/2"
								0,65	125	120	393'-8 7/16"	109	324'-9 5/8"	95	288'-8 9/16"
								0,75	-	120	-	95	-	82	-
43,5	39,5	89	77	280	229	24,0	32,6	0,50	100	-	-	-	-	-	-
								0,65	125	-	-	120	393'-8 7/16"	120	341'-2 1/2"
								0,75	-	-	-	120	-	107	-

Duty table for installations up to 1000 m altitude above sea level (NN)

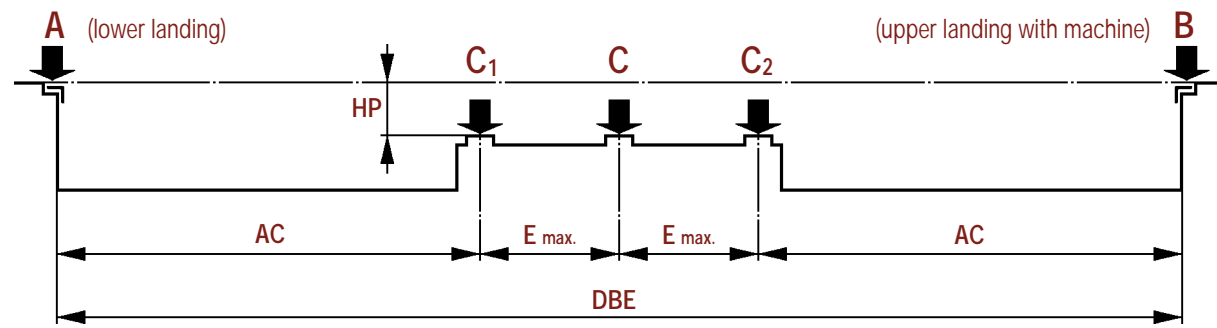
Dimensions

	Distance between supports		Dimension	Pallet width N								
	mm	feet		1000 mm		1200 mm		1400 mm				
				40'	48'	56'						
		Length		Length		Length						
		mm	feet	mm	feet	mm	feet	mm	feet			
Balustrade				J	1650	5'-4 15/16"	1853	6'-0 15/16"	2057	6'-9"		
				K	1282	4'-2 1/2"	1485	4'-10 7/16"	1688	5'-6 7/16"		
				HB	1000	3'-3 3/8"	1000	3'-3 3/8"	1000	3'-3 3/8"		
				HR	600	1'-11 5/8"	600	1'-11 5/8"	600	1'-11 5/8"		
				DE	698	2'-3 1/2"	698	2'-3 1/2"	698	2'-3 1/2"		
				DC	1807	5'-11 1/8"	1807	5'-11 1/8"	1807	5'-11 1/8"		
Pit				P	1730	5'-8 1/8"	1933	6'-4 1/8"	2136	7'-0 1/8"		
				DP	60	0'-2 3/8"	60	0'-2 3/8"	60	0'-2 3/8"		
				LP	6185	20'-3 1/2"	6185	20'-3 1/2"	6185	20'-3 1/2"		
				HP	10000	32'-9 11/16"	630	2'-0 13/16"	680	2'-2 3/4"	730	2'-4 3/4"
					7000	22'-11 9/16"	405	1'-3 15/16"	-	-	-	-
					6500	21'-3 7/8"	-	-	405	1'-3 15/16"	-	-
Truss				DT	1155	3'-9 1/2"	1155	3'-9 1/2"	1155	3'-9 1/2"		
				ET	75	0'-2 15/16"	75	0'-2 15/16"	75	0'-2 15/16"		
				HT	10000	32'-9 11/16"	580	1'-10 13/16"	630	2'-0 13/16"	680	2'-2 3/4"
					7000	22'-11 9/16"	355	1'-2 "	-	-	-	-
					6500	21'-3 7/8"	-	-	355	1'-2 "	-	-
				6000	19'-8 1/4"	-	-	-	-	355	1'-2 "	

Minimum clear floor access area in front of the landings measured from newel end: 2,5 x Trav-O-Lator® width or 2,0 m twice of Trav-O-Lator® width

Supports

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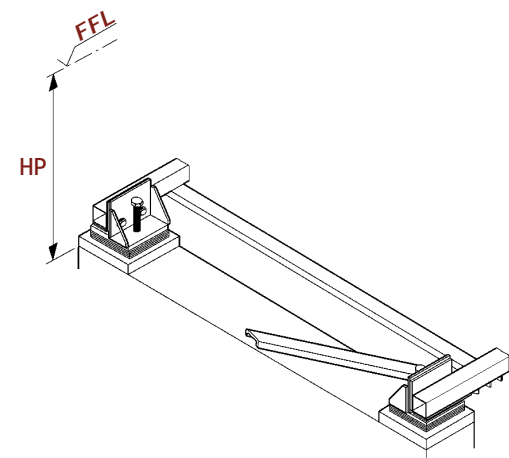


Reactions to support for STANDARD truss height at intermediate section

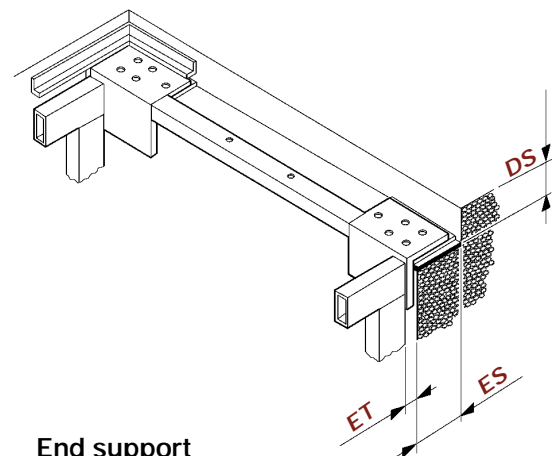
Distance	Pallet width N					
	1000	40'	1200	48'	1400	56'
AC	10,0 m	32'-9 11/16"	10,0 m	32'-9 11/16"	10,0 m	32'-9 11/16"
E max.						
ES	225 mm	0'-8 7/8"	225 mm	0'-8 7/8"	225 mm	0'-8 7/8"
DS	160 mm	0'-6 5/16"	160 mm	0'-6 5/16"	160 mm	0'-6 5/16"
Support	Reaction to support					
	kN (E in m)	Pound (E in ft)	kN (E in m)	Pound (E in ft)	kN (E in m)	Pound (E in ft)
A	52	11700	60	13500	68	15300
B	61	13700	70	15700	76	17100
C1	4,4 x E + 45	301 x E + 10100	5,15 x E + 52	353 x E + 11700	5,8 x E + 59	397 x E + 13250
C2	4,4 x E + 46	301 x E + 10300	5,15 x E + 54	353 x E + 12100	5,8 x E + 60	397 x E + 13500
C	8,8 x E	602 x E	10,3 x E	706 x E	11,6 x E	794 x E

Reactions to support REDUCED truss height at intermediate section (Standard Option)

Distance	Pallet width N					
	1000	40'	1200	48'	1400	56'
AC	7,0 m	22'-11 9/16"	7,0 m	22'-11 9/16"	7,0 m	22'-11 9/16"
E max.			6,5 m	21'-3 7/8"	6,0 m	19'-8 1/4"
ES	225 mm	0'-8 7/8"	225 mm	0'-8 7/8"	225 mm	0'-8 7/8"
DS	160 mm	0'-6 5/16"	160 mm	0'-6 5/16"	160 mm	0'-6 5/16"
Support	Reaction to support					
	kN (E in m)	Pound (E in ft)	kN (E in m)	Pound (E in ft)	kN (E in m)	Pound (E in ft)
A	37	8300	44	9900	48	10800
B	46	10350	53	11900	58	13000
C1	4,4 x E + 34	301 x E + 7650	5,15 x E + 40	353 x E + 9000	5,8 x E + 43	397 x E + 9600
C2	4,4 x E + 35	301 x E + 7860	5,15 x E + 41	353 x E + 9200	5,8 x E + 44	397 x E + 9900
C	8,8 x E	602 x E	10,3 x E	706 x E	11,6 x E	794 x E



Intermediate support



End support

Safety comes first

As safety is an ongoing process, each new generation of Trav-O-Lator® is an improvement over its predecessor.

The optimized handrail entry box minimizes the risk of objects becoming trapped.

Full-width pallet axles prevent pallet deformation and help to ensure minimum gap clearances between the pallet and the skirt panel.

Reliability through 'Passport'

Fundamental to our reliability program is a design process known as 'Passport'. An initiative unique to Otis, the Passport process establishes strict checkpoints from planning and development through to manufacture and delivery to site.

Specifically, it means the product has to be approved at each checkpoint before it can proceed to the next stage.

And, importantly, it involves staff at all levels including Otis Senior Management. Main components are tested and proven to ensure an average life expectancy in excess of 20 years.



Comfort and performance

Ride comfort is directly related to the precision with which Trav-O-Lator® is engineered. Balustrade rigidity, the synchronization of pallet and handrail movement all play a part in providing a qualified and reliable Trav-O-Lator®.

Components and sub-components have been designed and qualified within ISO 9001 and ISO 14001 certified procedures.

Passports acts as a constant reminder that quality is paramount. It is a linchpin in our quality assurance strategy and our commitment to ensure reliability.



Otis 610 NPT - the new standard of moving walkways for heavy traffic - elegant, robust, reliable, environment and service friendly