

Escalator Replacement



Fulton County Justice Center

TKE Propose to provide two (2) new Velino Escalators based on the description provided below. In addition to providing new escalators, TKE will remove and dispose of the existing escalators. TKE has also included related building work cost for turn-key management of all sub-contractors. Please see RBW scope of work following the escalator description.

TKE Proposal Price: \$852,000

TKE Velino Escalator Description		POS 1
Reference		E1 - E2
Category		Replacement
Product		Velino
Balustrade		Slim
Number of units		2
Rise		4.267 m
Rise		14'
Upper end		2.490 m
Lower end		1.810 m
Angle of inclination		30 °
Number of intermediate supports		0
Seismic support		0.000 m
Distance between supports		11.691 m
Distance Between Supports (required by customer)		11.640 m
Upper End Extension Needed		0.000 m
Lower End Extension Needed		-0.400 m

DESIGN		
Nominal step/pallet width		5EK
Number of flat steps		2 steps (800HOR)
Angle of inclination		30 °

GENERAL		
Travel speed	0,5 m/s	INCLUDED
Transition radius	Standard	INCLUDED
Safety code	CSA/ASME. Extras marked with (*)	INCLUDED

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2019	CSA/ASME certified drive unit with brake plates CSA/ASME pictograms CSA/ASME keyswitches and plug CSA/ASME steps/pallets	INCLUDED
Arrangement	Parallel and adjacent	INCLUDED
Climatic conditions	Indoor (Class I)	INCLUDED

VOLTAGE AND FREQUENCY		
Voltage	Voltage different to 400 between 200 and 600 V	INCLUDED
Main	480 V	INCLUDED
Light & Sockets	120 V	INCLUDED
Frequency	60 Hz	INCLUDED
Cable entry	Supply through the upper head	INCLUDED
Neutral	With neutral*	INCLUDED

BALUSTRADE		
Type of balustrade	SLIM	INCLUDED
Balustrade panels	Clear glass	INCLUDED
Handrail guide	Galvanized	INCLUDED
Under handrail profile	Not applicable	NO
Decking profiles	Stainless steel 304 1,5 mm	INCLUDED
Handrail	Thermoplastic	INCLUDED
Handrail color	Black	INCLUDED
Skirts	Black powder painted zinc-coated steel 2mm	INCLUDED
Floor plates and comb plates	Aluminum with black grooves	INCLUDED
Floor plate frame	Aluminium	INCLUDED
Comb finishing	Yellow	INCLUDED
Handrail inlet	Black plastic	INCLUDED

OUTER CLADDING		
Lateral cladding - One side	No	NO
Soffit cladding	No	NO
Extra weight allowed for cladding	5lbs/sqft	INCLUDED

LIGHTING		
Step gap lighting	Two LED stripe**	INCLUDED

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Pit lighting	Fixed (Oval)**	INCLUDED
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STEPS/PALLETS		
Step/pallet color	Silver	INCLUDED
Step/pallet finishing	Standard	INCLUDED
Step/pallet painted demarcation	2 sides + rear side (*)	INCLUDED
Type of step/pallet	Non ECO	INCLUDED

TRUSS		
Truss protection	Indoor (60µm)	INCLUDED
External supports	Fixed	INCLUDED
Support material	Wood	INCLUDED
Truss without intermediate support	Yes**	INCLUDED
Access cover for intermediate support	No	NO
Length of upper head	Standard	INCLUDED
Length of lower head	Reduced	INCLUDED
Maintenance cover in lower head	No	NO

CONTROL		
Type of controller	GEC (+MAX)	INCLUDED
Preparation for MAX	Yes**	INCLUDED
Controller location	Internal cabinet in upper pit	INCLUDED
Stop with cover and alarm	Yes	INCLUDED
Communications	Ethernet	INCLUDED
Voltage free contacts	Standard (Up / Down / Fault / Stop)**	INCLUDED

SAFETY DEVICES		
Handrail inlet device	Yes*	INCLUDED
Handrail speed sensor	Yes*	INCLUDED
Brake function indicator	Yes*	INCLUDED
Full motor protection	Yes*	INCLUDED
Speed monitoring motor	Yes*	INCLUDED
Step/pallet chain breakage sensor	Yes*	INCLUDED
Step run guard device	Yes*	INCLUDED
Missing step/pallet safety device	Yes*	INCLUDED
Open pit safety device at both heads	Yes	INCLUDED
Skirting safety brushes	Single-row	INCLUDED
Comb plate safety device	Vertical independent from horizontal (*)	INCLUDED

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Phase sequence relay	Yes*	INCLUDED
Anti-static roller	Yes*	INCLUDED
Floor plates lock	Yes*	INCLUDED
Electrical protection in cabinet	IP21	INCLUDED
Electrical protection in motor	IP55	INCLUDED
Buggy device	Lower head (*)	INCLUDED
Drive chain safety devices	Yes (*)	INCLUDED
Skirting microswitches	At landings (*)	INCLUDED
Number of microswitches	4	INCLUDED
Failure display	Inside the controller (*)	INCLUDED
Fire contact in controller	Yes (*)	INCLUDED
Seismic contact in controller	Yes (*)	INCLUDED
Anti-climbing device	Single arrangement (2 units per escalator)**	INCLUDED
Access restriction device	Between escalator and wall (2 units per escalator)**	INCLUDED
Cables in conduits	Plastic conduit (*)	INCLUDED

DRIVE SYSTEM		
Starting mode	Wye-delta	INCLUDED
Operating mode	Constant operation	INCLUDED
Type of motor	Standard	INCLUDED
Motor efficiency	Standard	INCLUDED
Drive chain's maintenance	Standard	INCLUDED
Handrail chain's maintenance	Standard	INCLUDED
Step/pallet chain's maintenance	Standard	INCLUDED
Flywheel motor cover	Yes**	INCLUDED
Auxiliary brake on main shaft	Mechanical ratchet on main shaft (*)	INCLUDED

PREPARATION FOR TRANSPORTATION		
Number of pieces	2 pieces	INCLUDED
Balustrade delivery	With dismantled balustrade	INCLUDED
Unit delivery	Container (pill up when possible)	INCLUDED

OTHERS		
Maintenance control unit	Yes (*)	INCLUDED
Pit access help (step)	Yes**	INCLUDED
Visible logos	Allowed	INCLUDED

SPECIAL PACKAGES		
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UNITED STATES / CANADA	Yes. Extras marked with (**)	INCLUDED
	Main switch on separate device CSA/ASME visible stamp on glasses A7 relay (only for projects for Canada) Glasses in separate crate	INCLUDED

Related Building Work:

Furnish and install barricades around both sides of bottom escalator.
approx. 55' x 20'
Furnish and install barricades 20' x 6' at top of escalator.
Furnish and install floor protection top and bottom of escalator
Demo out sheetrock below escalator and reframe sheetrock when
job is complete.
Paint ceiling area where sheetrock was demoed.
Demo sprinklers for removal of escalators
Reinstall sprinklers when new escalators are installed.
Demo 4 can lights for removal of escalator.
Reinstall 4 can lights when job is complete.
Demo out tile on walls and reinstall tile on walls around escalator.
when job is complete
Demo tile floor around top landing of escalator approx. 5' x 15' x 5'
Furnish and install glass piece on top side of escalator between
escalator and wall
Floor protection at door entrance 3/4 plywood approx. 5' x 15'
Paint barricades building choice of color.

- **End of Section** -