

SYSTEM: ECCLOS®
MODEL: ECCLOS®-FLEX-I



Product description

Vertically closing fire protection closure for wall openings in the course of track-bound conveyor systems with unsplit or split conveyor technology in the closing area.

World novelty: The world's first conveyor system closure of textile construction with European Technical Assessment (ETA)

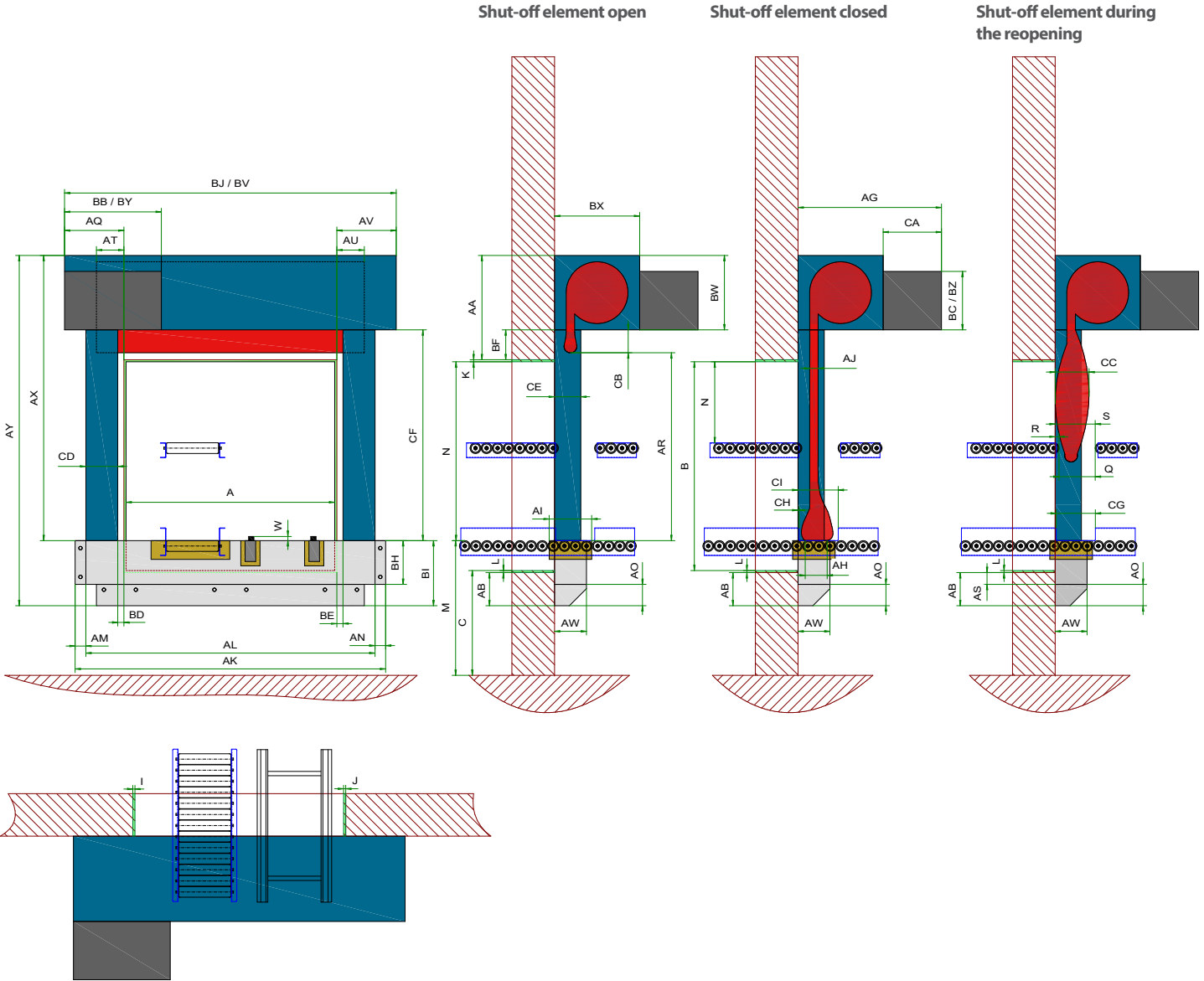
Type	Fire protection closure in the course of rail-bound conveyor systems
Verification	ETA-21/0359 VKF approval no. 32476
Closing direction	from top to bottom
Fire resistance	El ₂ 90 tested according to DIN EN 1366-7:2004-09 classified according to EN 13501-2:2007
Closing cycles	C tested according to EN 12605:2000-08 classified according to EN13501-2:2016 for scheduled open closures
Reopening	motoric
Conveyor systems	roller conveyors belt conveyors suspension chain conveyors
Visible surfaces	Cover guide rails and winding housing Stainless steel 1.4301 (V2A) coated in RAL color Fixed field untreated fire protection panels painted with dispersion paint in RAL similar shade sheet metal cladding stainless steel 1.4301 (V2A) Sheet metal cladding coated in RAL color

Size dimensions and system design

The combination of classifications or the ratio of clear system width to clear system height may reduce the stated maximum dimensions and the dimensions of the housing and guide rails may vary. The specifications on the quotation apply.

Component (load-bearing structure) in which the closure may be installed	achievable fire resistance class	clear wall opening			
		clear wall opening width		clear wall opening height	
solid wall of high density, masonry or solid concrete with total density of $\geq 800 \text{ kg/m}^3$ and thickness $\geq 150 \text{ mm}$	El ₂ 90	from 500 mm	up to 6.000 mm	from 500 mm	up to 4.400 mm
solid low-density wall, aerated concrete with total density of $\geq 450 \text{ kg/m}^3$ and thickness $\geq 150 \text{ mm}$	El ₂ 90	from 500 mm	up to 6.000 mm	from 500 mm	up to 4.400 mm

The installation situation must comply with the building code requirements of the country of installation. The fire resistance of a ceiling or wall support structure and the adjacent components must at least correspond to that of the fire protection closure. Evidence of the stability and serviceability of the adjacent walls and structural components must be provided under general ambient conditions and in the event of fire. See also notes on the standard supporting structure in EN1366-7:2004 or EN1363-1:2020. The fire protection system must not be subjected to any additional loads other than its own weight, even in the event of fire.



Dimensions at conveyor closure
Closing direction vertical from top to bottom

A - Clear wall opening width	500 mm to 6000 mm
B - Clear wall opening height	500 mm to 4400 mm
C - lower edge of wall opening	0 - n
I - Planning allowance left	Default value 20 mm
J - Planning allowance right	Default value 20 mm
K - Planning allowance above	Default value 20 mm
L - Planning allowance below	Wall-hung system: default value = 20 mm Floor-standing system: default value = 0 mm
Q - Conveyor separation Width	Depending on the position and type of the conveyor system and the size of the clear wall opening dimensions
R - Conveyor separation dimension wall side	Depending on the position and type of the conveyor system and the size of the clear wall opening dimensions
S - Conveyor separation dimension room side	Depending on the position and type of the conveyor system and the size of the clear wall opening dimensions
N - clearance height/transit height	Depending on the position and type of the conveyor system and the size of the clear wall opening dimensions
M - conveying level	0 - n
W - conveying level protrusion	up to +25 mm
AA - space requirement above the opening	BF + BW + K unseparated continuous conveying = 200 mm + 430 mm + 20 mm = 650 mm separated conveyor technique = 50 mm + 430 mm + 20 mm = 500 mm
AB - Space requirement below the opening	with fixed panel = L + AS + AO = 20 mm + 80 mm + 120 mm = 220 mm without fixed field = 0 mm
AG - Space requirement drive Installation side	800 mm
AH - Sealing depth at the shut-off element	150 mm
AI - Sealing depth at the fixed field	175 mm
AJ - Thickness barrier element	approx. 12 mm
AK - Total fixed field width	AL + AM + AN
AL - Fixed field width	A + I + J + CD + CD = A + 20 mm + 20 mm + 230 mm + 230 mm = A + 500 mm
AM - Fixing projection fixed field left	50 mm
AN - Fixing projection fixed field right	50 mm
AO - Fixing protrusion fixed field below	120 mm
AQ - Space requirement for wall frame to the left of the opening	I + BD + CD + 100 mm = 20 mm + 50 mm + 230 mm + 100 mm = 400 mm
AR - Traverse path of shut-off element / unwinding length	= N
AS - Overlap fixed field below	80 mm
AT - Overlap barrier element left	215 mm
AU - Overlap barrier element right	215 mm
AV - Space requirement wall frame to the right of the opening	J + BE + CD + 100 mm = 20 mm + 50 mm + 230 mm + 100 mm = 400 mm
AW - Fixed field depth	175 mm
AX - Height wall frame	N + AA unseparated continuous conveyor = N + 650 mm; separated conveyor technique = N + 500 mm
AY - System height	BI + AX
BB - Drive Technology Width	750 mm
BC - Drive Technology Height	430 mm
BD - Offset left	50 mm
BE - Offset right	50 mm
BF - Offset top	unseparated continuous conveyor = 200 mm; separated conveyor technology = 50 mm
BH - fixed field height	M - C + L + AS
BI - Total fixed field height	BH + AO
BJ - System width	AQ + AV + A = 400 mm + 400 mm + A = BJ
BV - Winding housing width	430 mm
BW - Winding housing height	430 mm
BX - Winding housing depth	460 mm
BY - Drive housing width	750 mm
BZ - Drive housing height	430 mm
CA - Drive housing depth	340 mm
CB - Parking area Shut-off element under winding housing	unseparated continuous conveyor = 200 mm; separated conveyor technology = 0 mm
CC - Thickness barrier element on reopening	400 mm
CD - Guide rail width	230 mm
CE - Guide rail depth	114 mm
CF - Guide rail height	AX - BW
CG - Separation point conveyor guide width	300 mm
CH - Separation point conveyor guide dimension wall side	0 mm
CI - Separation point conveyor guide dimension room side	300 mm
CJ - Width/height ratio	BJ/CF >= 0,333