Product specification sheet Metacon-Next

OHD-C EI(1) 60 / EI(2) 90 / EW 90

fire rated sectional door

OHD-C EI(1) 60 / EI(2) 90 / EW 90

CERTIFICATION

Tested in accordance with	EN 1634-1:2014 + A1:2018 *method for determining fire resistance door constructions*	
	EN 1634-3:2004 *method for determining smoke control door constructions*	
Classified in accordance with	EN 13501-2:2016 *procedure classification data test fire/smoke resistance of building elements/ products*	EI(1) : 30, 60 minutes EI(2) : 30, 60, 90 minutes EW : 30, 60, 90 minutes E : 30, 60, 90 minutes S_{a3} S_{a4} S_{200}
	EN 13501-1:2019 *procedure for classifying the fire reaction of construction products*	B-s1, d0
CE marked in accordance with	EN 13241:2003 + A2:2016 *safety and performance requirements for industrial doors*	1812-CPR-1787
	EN 16034:2014 *fire and smoke control properties of industrial doors*	
Environmental Product Declaration (EPD) in accordance with	ISO 14025 + EN 15804+A2 *standard for sustainability of buildings*	1.1.00916.2025

OHD-C EI(1) 60 / EI(2) 90 / EW 90

TECHNICAL SPECIFICATIONS

Min. dimensions (opening measures)	width 500 mm, height 500 mm, opening ± 0,25 m2
Max. dimensions (opening measures)	width 5.175 mm, height 6.967 mm, opening 23,5 m2
Maximum cycles per day	25 cycles *(max. opening width 4.000 mm)* 15 cycles *(width > 4.000 mm; assessment pending)* 15 cycles *(version with low rail system, max. 4.000 mm)* 5 cycles *(version with low rail system, width > 4.000 mm; assessment pending)* 5 cycles *(version with liquid barrier, max. 4.500 mm)*
Cycle test	C3 (> 50.000 cycles)
Opening speed	± 60 mm/sec
Closing speed	± 60 mm/sec
Standard position product	open
Recommended temperature range	between +5°C en +40°C
Permitted mounting surfaces	*low density;* - aerated concrete, cellular concrete, sand-lime brick - through-and-through mounting, wall thickness from 150 to 250 mm *high density;* - concrete (uncracked), masonry - minimum wall thickness 150 mm *protected construction;* - fire-resistant finished steel structure - steel thickness from 2 to 8 mm, cladding min. thickness 8 mm, max. thickness 30 mm

OHD-C EI(1) 60 / EI(2) 90 / EW 90

SPECIFICATION OF MATERIALS

Panels

Height	550 mm and 147,5 mm
Thickness	42 mm
Weight	± 32 kg/m2
Material	composite pultrusion with fire-resistant filling
Standard color	raw mixed white structure (approximate RAL 9002)
U value (theoretical insulation value)	1,99 W/m2K

Rail system

Measures	width 155 mm per side, depth 107,5 mm (larger according to height)
Material	high quality galvanized steel
Weight	± 50 kg/m1 per rail set
Rail fitting systems	regular *(head space 1.000 mm - 1.500 mm)* *(please note: with motor position up front, a minimum of 1.100 mm is required)* low *(head space from 400 mm)* high lift *(head space from 1.501 mm)* vertical *(head space 1 x opening height + ± 750 mm)*

Consoles/brackets

Types	UNP S-80, S-100
Weight	± 35 kg per bracket
Material	electrolytically galvanized steel

OHD-C EI(1) 60 / EI(2) 90 / EW 90

Tube/drive shaft

Measures	Ø 133,0 mm
Material	blasted steel with gray coating
Weight	± 20 kg/m1
Design	incl. aluminum cable drum set

Safety

Safety	safety catch device with integrated safety switch cable break protection slack cable protection

OHD-C EI(1) 60 / EI(2) 90 / EW 90

OPTIONS

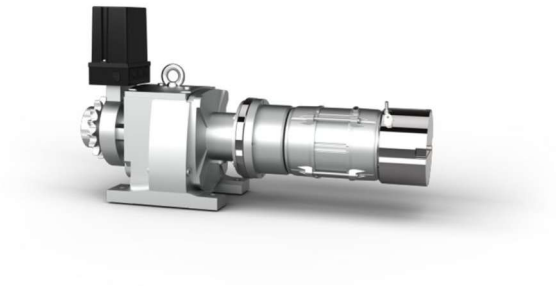
Application indoor/outdoor situation	yes
Max. wind class	5
Emergency power supply	optional external battery/UPS, automatically prevents closing in the event of a power failure, depending on battery condition, for a period of ± 1 or 2 hours *suitable for use in spaces between 0 and 40 degrees Celsius, not in dusty and/or humid environments*
External control switches	key switch up-down pressure switch up-stop-down
Detectors in the absence of a fire alarm system	smoke detector *can be used as a stand-alone system, only in spaces between -10 and +60 degrees Celsius, not in dusty and/or humid environments* temperature detector *not suitable for use as a stand-alone system, only in spaces between -10 and +60 degrees Celsius, not in dusty and/or humid environments*
Increased speed (opening and closing)	up to ± 120 mm/sec
Smoke proof according EN 1634-3	S_{a3}, S_{a4} S_{200}
Burglary proof classification according EN 1627-1630	RC 2, RC 3 *please note: RC 3 classification is not possible in combination with a liquid barrier*
Sound-insulating class according NEN-EN-ISO 10140	30 dB, 32 dB

OHD-C EI(1) 60 / EI(2) 90 / EW 90

Liquid barrier	height 300 mm *(classified on both sides, till max. opening width 4.500 mm)* height 500 mm *(classified on installation side, till max. opening width 4.500 mm)* *please note:* *- max. recommended usage frequency of 5 cycles per day* *- not possible in combination with RC 3 classification*
Explosion proof (ATEX) version	marking according directive ATEX 114 - 2014/34/EU equipment group II for aboveground installation temperature class T3 - 190°C
Optional color parts by coating	various RAL, NCS, Sikkens colors standard gloss level ± 70% optional gloss level ± 30%, matt standard classification C3; 1-layer, layer thickness ± 80 to 100 mu optional classification C4 or C5; 3-layer, layer thickness ± 180 to 240 mu
Optional color panels by wrapping	RAL 9002, RAL 9006, RAL 7016, RAL 3000 (gloss level ± 70%; only for indoor application)

OHD-C EI(1) 60 / EI(2) 90 / EW 90

OPERATION



Gravitational self-closing chain wheel motors	GFA FS 15.20, FS 25.20, FS 50.20, FS 110.18
Choice in type of limit switch	DES (digital, standard), NES (mechanical, optional)
Control box	Tedsen FS Control 400V
Required power supply	~3 phases, 400 Vac 10%, 50Hz
Cable length between control box and motor	3, 5, 7, 9, 11, 15 meters
Standard operation	deadman's mode (hold switch, release to stop the door)
Optional operation	automatically operated (takeover contact), possible in conjunction with a set of light curtains
Emergency power supply battery/batteries	optional external battery/UPS, automatically prevents closing in the event of a power failure, depending on battery condition, for a period of ± 1 hour or ± 2 hours
Signaling	optical (LED) / acoustic (85 dB) signal integrated in control cabinet

OHD-C EI(1) 60 / EI(2) 90 / EW 90

Specifications of GFA FS motors

	FS 15.20	FS 25.20	FS 50.20	FS 110.18
Rated torque	150 Nm	250 Nm	500 Nm	1100 Nm
Drive speed (min^{1})	20 rpm	20 rpm	20 rpm	18 rpm
Limit switch range	20 (60)			
Connection voltage	3~230 / 400 V			
Connecting power	0,30 kW	0,45 kW	0,90 kW	1,10 kW
Locking torque	15 Nm	15 Nm	22 Nm	30 Nm
Operaring current	1,5 A	2,0 A	2,7 A	4,1 A
Operating frequency	50 Hz			
Shaft diameter	25 mm	30 mm	40 mm	50 mm
Max. cycles per hour	14	12	11	10
Power cable	5 x 1.5 mm^2			
Fuse	10 A (slow)			
Protection class	IP 54			
Operating temperature	- 10 °C ... + 40 °C			
Measures (w x d x h)/mm	167 x 558 x 340	210 x 651 x 382	257 x 750 x 408	320 x 897 x 464
Weight	26 kg	45 kg	70 kg	105 kg

Specifications of control box Tedsen FS Control 400V

type	specification
Measures (w x h x d)	320 mm x 430 mm x 170 mm
Weight	± 5 kg
Power consumption of the control unit in active operation, without motor and external consumers at 400V 50Hz	< 5 W
Power supply	~3 phases, 400Vac 10%, 50Hz
Storage temperature	20 °C to +70 °C
Operating temperature	-10 °C to +50 °C
Relative humidity	max. 95% non-condensing
Motor	three-phase motor 400Vac
Protection class	without signal device IP 65
Additional	12Vdc 250mA and 24Vdc 500mA

MetacoN Next
Zuidbaan 450, 2841 MD Moordrecht, The Netherlands
info@metacon-next.com
www.metacon-next.com