

4.4	Circular				Rectangular			Control Systems
C€	FDMR FDMR	FDMA-РМ	CFDM	CFDM-V C	FDMB 🗊 🕼	FDMQ 🌃	FDMA 🕡 👣	
Size								*****
Dimensions	100-800	900 & 1000	100-200	100-200	100x100 - 1000x500 - 0.5m2	150x150 - 1500x800	180x180 - 1600x1000	
Non-Standard Sizing	x	x	x	x	✓	✓	✓	
Fire Resistance Classification								
Classification Standard BS EN 13501-3 Product Standard BS EN 15650	EI 120 (Ve-Ho i<->o) S (500Pa)	EI 120 (Ve-Ho i<->o) S	EI 120 (Ve-Ho i<->o) S	EI 120 (Ve-Ho i<->o) S	EI 120 (Ve-Ho i<->o) S (500Pa)	EI 120 (Ve-Ho i<->o) S	EI 120 (Ve-Ho i<->o) S	Second .
Fire Test Standard BS EN 1366-2	EI 120 (Ve-H0 I<->0) S (500Pa)	E1 120 (Ve-no I<->0) S	E1 120 (Ve-H0 I<->0) S	EI 120 (Ve-Ho I<->0) S	E1 120 (Ve-no I<->0) S (S00Pa)	E1 120 (Ve-no I<->0) S	E1 120 (Ve-H0 I<->0) S	
Installation Method								
Wall (Ve) - Concrete, Masonry or Lightweight Construction	√ 60/90/120 M	√ 120M	<b>√</b>	<b>/</b>	√ 30/60/90/120 M	√ 60/90/120 M	√90/120 M	*
Wall thickness (minimum) - solid/flexible wall construction	100mm	100mm	100mm	100mm	100mm	100mm	100mm	1
Ceiling/floor (ho) - Concrete or Masonry	<b>√</b>	<b>v</b>	<b>√</b>	<b>√</b>	<b>V</b>	<b>√</b>	<b>√</b>	<ul> <li>Mandik can supply a whole range</li> <li>of standard and bespoke control</li> </ul>
Wall thickness (minimum) - Ceiling/floor Concrete/aerated concrete	110mm/125mm	110mm/125mm	110mm/125mm	110mm/125mm	110mm/125mm	110mm/125mm	110mm/125mm	systems to compliment our range
Away from the Wall (Ve) - Concrete, Masonry or Lightweight	√ 90M	√ 90M	x	x	√ 90/120 M	√ 90/120 M	√ 90 M	of Fire and Smoke control
Away from the Ceiling/Floor (ho) - Concrete or Masonry	√ 90M ×	√ 90M	X X	X	√ 90M √ 60M/90 M	√ 90M √ 120 M	√ 90M	dampers, from simple hard wired
British Gypsum EN Shaftwall (ask for others types) Sandwich Panel Installation (whitewall)	× √ 90M	x x	X X	x x	√ 60M/90 M X	√ 120 M X	x x	panels through to fully Complian BS ISO 21927-9 panels, complet
Damper rotation possible (dampers are not handed)	√ 90M	× ×	× /	× ×	×	<u> </u>	× /	with fire rated & tested interface
"Battery" Installation (multiple dampers) wall only	<del>'</del>	×	×	x	√ 90 M	√ 90 M	×	specifically for EN12101-8 Smoke
Actuators (Spring Return)								control dampers.
Belimo 24V (.50) or 230V (.40) Drive Open/ Spring Close	✓	<b>V</b>	x	x	<b>√</b>	<b>√</b>	✓	]
Gruner 24V (.50) or 230V (.40) Drive Open/ Spring Close	<b>√</b>	<b>√</b>	x	x	<b>√</b>	✓	✓	]
Mechanical Spring Release (0.1) - Failsafe fusible link	<b>√</b>	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	✓	<b>√</b>	Mandik Mechanical Electrica
Accessories	/	<del></del>	<i>J</i>	1		/	<del></del>	(MME)
Limit Switch/s for Mechanical Spring Release  Material Options	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			<b>√</b>		<b>√</b>	Simple relay driven  Mechanical/Electrical hard-wired
Galvanised Steel		1	<b>√</b>	1		1	4	panel with LED status indication.
Powder Coating - Paint	<u> </u>	7	, , , , , , , , , , , , , , , , , , ,	· /	· · · · · · · · · · · · · · · · · · ·	<b>,</b>	<u>,</u>	<del> </del>
Stainless Steel (AISI 316L) C4	· /	· /	,	· /	· /	· /	· /	†
Promat Impregnations for damp/aggressive environments	<b>V</b>	<b>V</b>	1	<b>V</b>	<b>V</b>	<b>√</b>	<b>V</b>	Mandik Easy Addressable
								(MEA) Simple Addressable Bi-
Smoke Control Dampers	Cir	cular			Rectangular			Directional networked panel for
CE	SEDS-R	MSD-R	SEDM-L	SEDS-L	MSD-S	SEDM	SEDS	simple cause & effects and LED status indication.
Size								Ţ
Dimensions Non-Standard Sizing	100-630	200-630	200x430 - 1200x2030	200x200 - 1200x1200	160x180 - 1500x800	180x180 - 1600x1000 ✓	180×180 - 1600×1000 Y (width only)	Mandik Advanced
Fire Resistance Classification	X	X	X	Y (width only)	·	· ·	T (width only)	Addressable (MAA)
Clasification Standard BS EN 13501-4		<del></del>			+		<del></del>	Advanced Addressable Bi- Directional networked panel with
Product Standard BS EN 12101-8	E600 120 (Ved-i<->o) S 1500 Cmod MA	EI 120 (Vew-How-i<->o) S 1500C 10000 AA Multi	EI 120 (ved,vew, i<->o) S 1000 Cmod HOT 400/30 AA/MA Multi	E600 120 (Ve i<->o) S 1500 Cmod MA Single	EI 120 (Ved-Hod-Vew-How i<->o) S 1500 Cmod HOT 400/30 AA Multi	EI 120 (ved,vew,hod, How, i<->o) S1500 Cmod HOT 400/30 AA/MA Multi	E600 90 (Ved-i<->o) S 1000 C300 AA Single	LED status indication, unlimited
Fire Test Standard BS EN 1366-10	Single	AA Mulu	400/30 AA/MA MUIU	Single	Cfflod HOT 400/30 AA Multi	Critida HOT 400/30 AA/MA Multi	Single	cause and effect and
Installation Method								cause and effect and
Horizontal Duct (Ved)	J							programmable features.
Martinal Dust (Had)	•	x	√ 90/120 M	<b>√</b>	√ 90/120 M	√ 90/120 M	<b>√</b>	
Vertical Duct (Hod)	x	x	x	√ x	√ 90/120 M	√ 90/120 M	x	
Wall (Vew) - Concrete, Masonry or Lightweight Construction	x	x ✓	× √90/120 M	x x	√ 90/120 M √	√ 90/120 M ✓	x x	programmable features.  Mandik Touch Screen (MTS)
Wall (Vew) - Concrete, Masonry or Lightweight Construction Wall thickness (minimum) - solid	X N/A	x ✓ 100mm	X √90/120 M 100mm	x x N/A	√ 90/120 M √ 100mm	√ 90/120 M √ 100mm	X X N/A	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced
Wall (Vew) - Concrete, Masonry or Lightweight Construction Wall thickness (minimum) - solid Wall thickness (minimum) - flexible wall construction	X N/A N/A	x √ 100mm 125mm	X √90/120 M 100mm 100mm	x x N/A N/A	✓ <b>90/120 M</b> ✓ 100mm 125mm	✓ <b>90/120 M</b> ✓ 100mm 100mm	x x N/A N/A	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced Addressable Bi-Directional
Wall (Vew) - Concrete, Masonry or Lightweight Construction Wall thickness (minimum) - solid Wall thickness (minimum) - flexible wall construction Ceiling/floor (ho) - Concrete or Masonry	N/A N/A N/A	x √ 100mm 125mm	x √90/120 M 100mm 100mm	x x N/A N/A	√ 90/120 M √ 100mm 125mm √	√ 90/120 M √ 100mm 100mm	x x N/A N/A	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced Addressable Bi-Directional networked panel with touch
Wall (Vew) - Concrete, Masonry or Lightweight Construction Wall thickness (minimum) - solid Wall thickness (minimum) - flexible wall construction Ceiling/floor (ho) - Concrete or Masonry Wall thickness (minimum) - ceiling/floor concrete/aerated concrete	X N/A N/A	x √ 100mm 125mm	X √90/120 M 100mm 100mm	x x N/A N/A x	✓ <b>90/120 M</b> ✓ 100mm 125mm	✓ <b>90/120 M</b> ✓ 100mm 100mm	x x N/A N/A	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced Addressable Bi-Directional
Wall (Vew) - Concrete, Masonry or Lightweight Construction Wall thickness (minimum) - solid Wall thickness (minimum) - flexible wall construction Ceiling/floor (ho) - Concrete or Masonry	X N/A N/A X N/A	x √ 100mm 125mm √ 150mm	x y 90/120 M 100mm 100mm x	x x N/A N/A	√ 90/120 M √ 100mm 125mm √ 150mm	√ 90/120 M √ 100mm 100mm √ 150mm/125 (EIS120)	x x N/A N/A x	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced Addressable Bi-Directional networked panel with touch screen display, unlimited cause and effect and visual roprogrammable features typically,
Wall (Vew) - Concrete, Masonny or Lightweight Construction Wall thickness (minimum) - solid Wall thickness (minimum) - flexible wall construction Ceiling/floor (ho) - Concrete or Masonny Wall thickness (minimum) - ceiling/floor concrete/aerated concrete Damper rotation possible (dampers are not handed)	X N/A N/A X N/A	X	x  y 90/120 M  100mm  100mm  x  x  180°	x x N/A N/A N/A x	✓ 90/120 M ✓ 100mm 125mm ✓ 150mm	√ 90/120 M √ 100mm 100mm √ √ 150mm/125 (EIS120)	x x N/A N/A N/A x N/A	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced Addressable Bi-Directional networked panel with touch screen display, unlimited cause and effect and visual programmable features typically, menu driven building layouts.
Wall (Vew) - Concrete, Masonry or Lightweight Construction Wall thickness (minimum) - solid Wall thickness (minimum) - flexible wall construction Ceiling/floor (ho) - Concrete or Masonry Wall thickness (minimum) - ceiling/floor concrete/aerated concrete Damper rotation possible (dampers are not handed) Battery Installation (multiple dampers) wall only Compartment Applications Single Compartment	X N/A N/A X N/A ✓	X  100mm 125mm  √ 150mm  √  150mm  √  √  √  √  ✓  ✓  ✓  ✓  ✓  ✓	x	x x N/A N/A N/A x N/A x	√ 90/120 M √ 100mm 125mm √ 150mm √	√ 90/120 M  √ 100mm 100mm √ √ 150mm/125 (EIS120) √ √ ✓	x x N/A N/A N/A  X N/A  X  N/A  X  V  X	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced Addressable Bi-Directional networked panel with touch screen display, unlimited cause and effect and visual programmable features typically, menu driven building Jayouts. Mandik through our partner Blue
Wall (Vew) - Concrete, Masonry or Lightweight Construction Wall thickness (minimum) - solid Wall thickness (minimum) - flexible wall construction Ceiling/floor (ho) - Concrete or Masonry Wall thickness (minimum) - ceiling/floor concrete/aerated concrete Damper rotation possible (dampers are not handed) Battery Installation (multiple dampers) wall only Compartment Applications Single Compartment Multi-Compartment	X N/A N/A X N/A ✓	x √ 100mm 125mm √ 150mm √ x	x √90/120 M 100mm 100mm x x 180°	x x N/A N/A X N/A x	√ 90/120 M √ 100mm 125mm √ 150mm √	√ 90/120 M  √ 100mm 100mm √ 150mm/125 (EIS120)  √	x x N/A N/A x N/A x	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced Addressable Bi-Directional networked panel with touch screen display, unlimited cause and effect and visual programmable features typically, menu driven building layouts. Mandik through our partner Blue River can design, supply, commission and maintain Fire an
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Wall (Vew) - Concrete, Masonry or Lightweight Construction Wall thickness (minimum) - Isolid Wall thickness (minimum) - Isolid wall construction Ceiling/floor (ho) - Concrete or Masonry Wall thickness (minimum) - ceiling/floor concrete/aerated concrete Damper rotation possible (dampers are not handed) Battery Installation (multiple dampers) wall only Compartment Applications Single Compartment Multi-Compartment Activation System Automatically Activated (AA) Manually Activated (MA) Actuators (without Spring Return or Fuse) Belimo 24V (.54) or 230V (.44) Drive Open/ Drive Closed Belimo BEN 24 SR and BEE 24 SR .0-10V Modulating Control Schischek InMax (larger Sizes Only) Material Options	X N/A N/A X N/A ✓ X ✓ ✓ X	X  100mm 1125mm  125mm  √ 1150mm  √  150mm  √  X  X  X  X  X  X  X  X	x y90/120 M 100mm 100mm x x x 180°  √  √  √  √  √  √  √  √  ✓  ✓  ✓  ✓  ✓	x x N/A N/A N/A X N/A x N/A x  x	√ 90/120 M  √ 100mm 125mm  √ 150mm  √  √  √  √  √  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓	✓ 90/120 M  ✓ 100mm 100mm ✓ 150mm/125 (EIS120)  ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	x x x N/A N/A N/A x N/A x  N/A	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced Addressable Bi-Directional networked panel with touch screen display, unlimited cause and effect and visual programmable features typically, menu driven building layouts. Mandik through our partner Blue River can design, supply, commission and maintain Fire an Smoke control dampers and controls offering a full System
Wall (Vew) - Concrete, Masonry or Lightweight Construction Wall thickness (minimum) - solid Wall thickness (minimum) - flexible wall construction Ceiling/floor (ho) - Concrete or Masonry Wall thickness (minimum) - ceiling/floor concrete/aerated concrete Damper rotation possible (dampers are not handed) Battery Installation (multiple dampers) wall only Compartment Applications Single Compartment Multi-Compartment Activation System Automatically Activated (AA) Manually Activated (MA) Actuators (without Spring Return or Fuse) Bellimo 24V (.54) or 230V (.44) Drive Open/ Drive Closed Bellimo BEN 24 SR and BEE 24 SR .0-10V Modulating Control Schischek InMax (larger Sizes Only) Material Options Galvanised Steel Calcium Silicate Board Powder Coating - Paint	X N/A N/A X N/A V X V X V V V	X  100mm 1125mm  125mm  √ 1150mm  √  1x  X  X  X  X  X  X  X  X	x y90/120 M 100mm 100mm x x x 180°  √  √  √  √  √  x x x x x x x x x x x	x x N/A N/A N/A N/A x N/A x x	√ 90/120 M  √ 100mm 1125mm  √ 1150mm  √  √  ×  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓	✓ 90/120 M  ✓ 100mm 100mm  ✓ 150mm/125 (EIS120)  ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	X X X N/A N/A N/A X N/A  X X  X  X  X  X  X  X  X  X  X  X  X	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced Addressable Bi-Directional networked panel with touch screen display, unlimited cause and effect and visual programmable features typically, menu driven building layouts. Mandik through our partner Blue River can design, supply, commission and maintain Fire an Smoke control dampers and controls offering a full System
Wall (Vew) - Concrete, Masonry or Lightweight Construction Wall thickness (minimum) - solid Wall thickness (minimum) - flexible wall construction Celling/floor (ho) - Concrete or Masonry Wall thickness (minimum) - celling/floor concrete/aerated concrete Damper rotation possible (dampers are not handed) Battery Installation (multiple dampers) wall only Compartment Applications Single Compartment Multi-Compartment Activation System Automatically Activated (AA) Manually Activated (MA) Actuators (without Spring Return or Fuse) Belimo 24V (.54) or 230V (.44) Drive Open/ Drive Closed Belimo EBR J4 SR and BEE 24 SR .0-10V Modulating Control Schischek InMax (larger Sizes Only) Material Options Galvanised Steel Calcium Silicate Board	X N/A N/A X N/A X X X X X	x	x	x x N/A N/A N/A X N/A x N/A x	√ 90/120 M  √ 100mm 125mm  √ 150mm  √  √  √  √  √  √  √  √  √  √  ✓  ✓  ✓	✓ 90/120 M  ✓ 100mm 100mm ✓ √ 150mm/125 (EIS120) ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	x x N/A N/A N/A N/A X N/A  X  N/A	programmable features.  Mandik Touch Screen (MTS) Advanced PLC Advanced Addressable Bi-Directional networked panel with touch screen display, unlimited cause and effect and visual orogrammable features typically, menu driven building layouts. Mandik through our partner Blue River can design, supply, commission and maintain Fire and Smoke control dampers and controls offering a full System

Notes:
Classifications shown are the best possible scenario - exact classification depends on wall type, installation and fire stopping method
Extended leads are not possible for Smoke Control Dampers
All options or permutations are not provided here - please contact us for more detailed requirements
Cmod tested Smoke control dampers can provide a 3rd / balanced position from the control system
The overall system design needs to take into account hat some dampers are single bladed units, so very low or close tolerance airflow is not always possible.
All lightweight walls must be symmetrical as to BS EN 1363-1 and Tested to BS EN 1364-1.