

Approved to SABS 193: 2013 Permit No: 8017/12781

Electrovent 2 hour Fire Dampers (EFD), can be mounted in or on walls or slabs, irrespective of direction of air flow. They are complete with panel for inspection and replacement of fusible link.

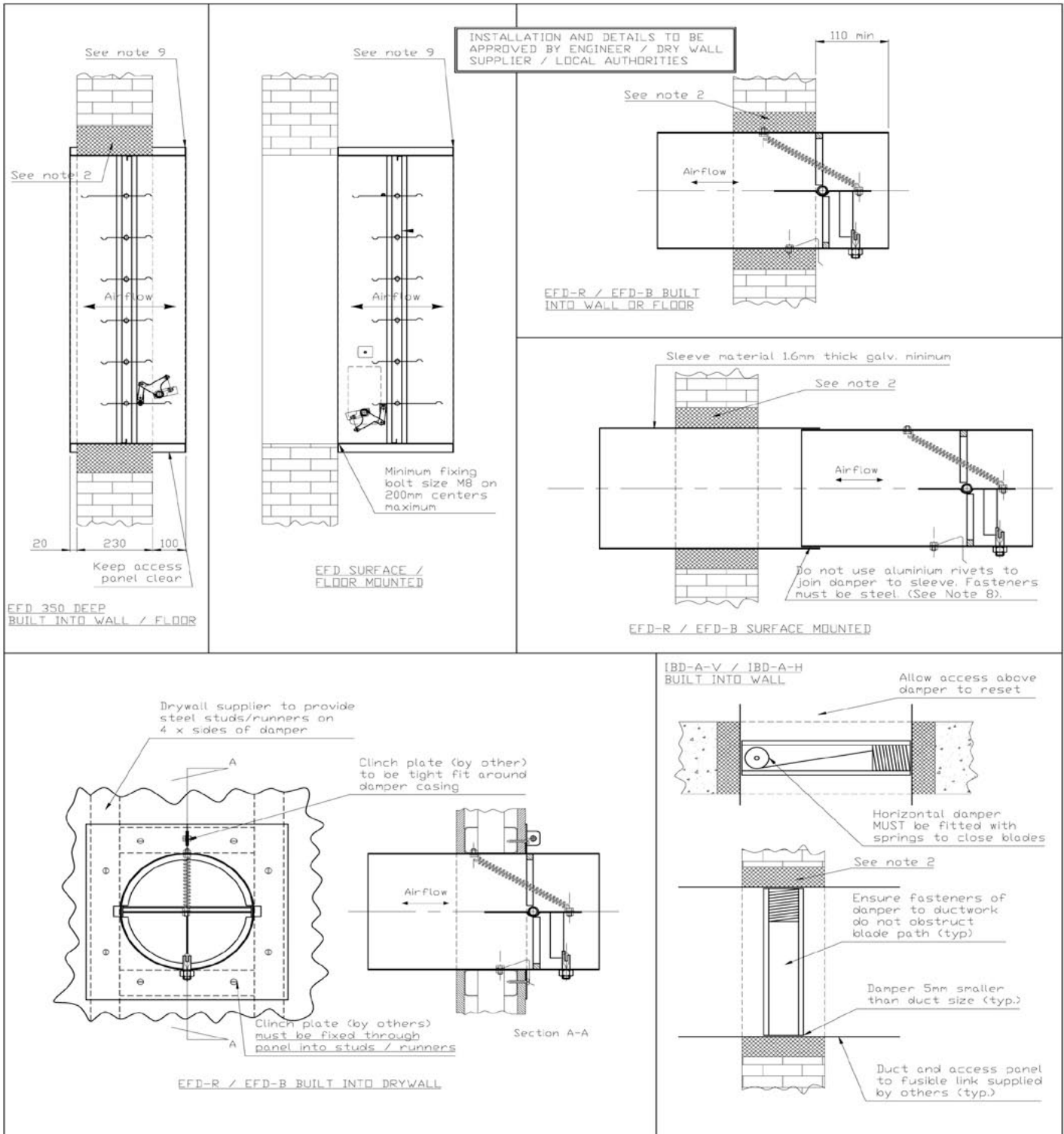
Fire Dampers can be fitted with balancing quadrants, solenoids or spring return motors in series with the fusible link.

Standard construction is galvanized steel.

Dimensions: 150 x 150 to maximum 1200 x 1200.

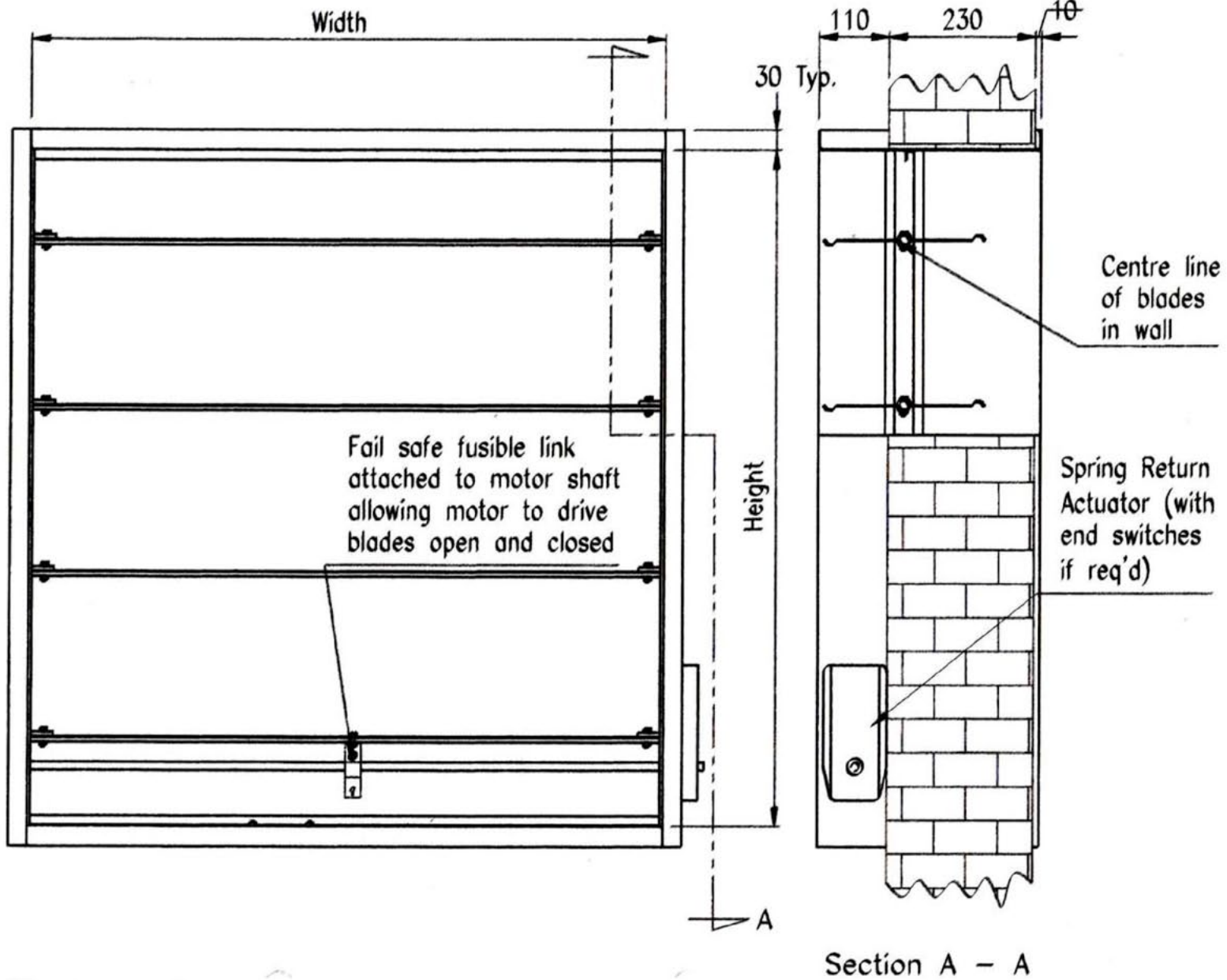
Round Dampers 100 Ø to maximum 400 Ø.

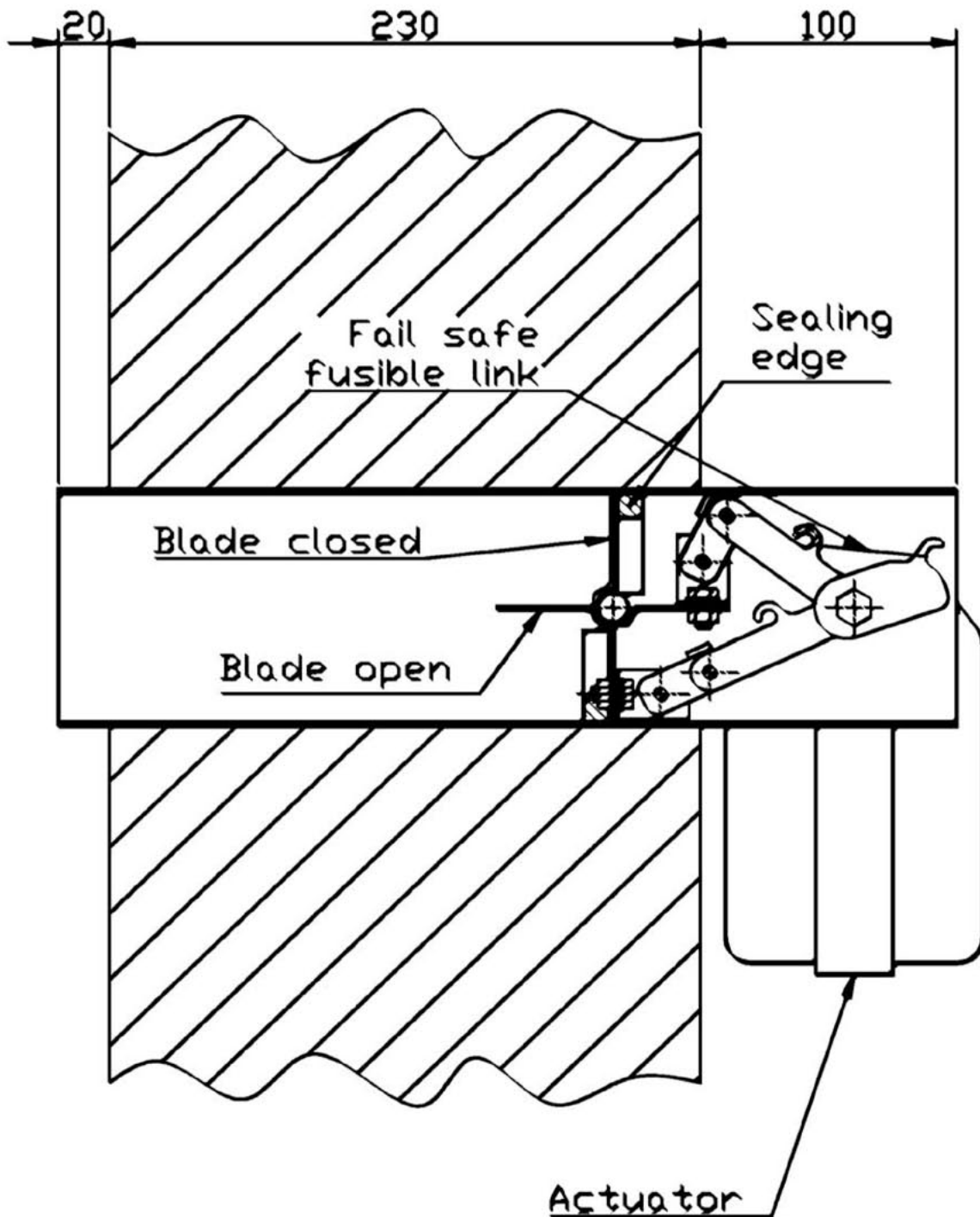




FIRE DAMPERS ARE CRITICAL PIECES OF EQUIPMENT. IF CONDITION APPEARS DOUBTFUL DO NOT INSTALL

6	All shafts to be free of dust. Lubricate after installation	12	Store dampers in a dry, clean environment. Do not get wet.
5	Damper internals to be kept clean and clear of obstructions.	11	Access must be provided to damper to allow for inspection of link, mechanism etc.
4	Casing to be installed square. Both diagonal measurements to be the same.	10	If damper condition is doubtful, check with Electrovent before installation.
3	Damper to be installed in vertical wall with blades horizontal	9	Always ensure damper is installed correct way up. ('Top' sticker facing up).
2	Infill material if required, supplied by others to Clients specification	8	Do not support adjoining ducts on damper. Ducts to be self supporting.
1	Damper casing not to support structure/infill material	7	Remove fusible link and ensure blades <u>slam and lock shut</u> . Replace fusible link

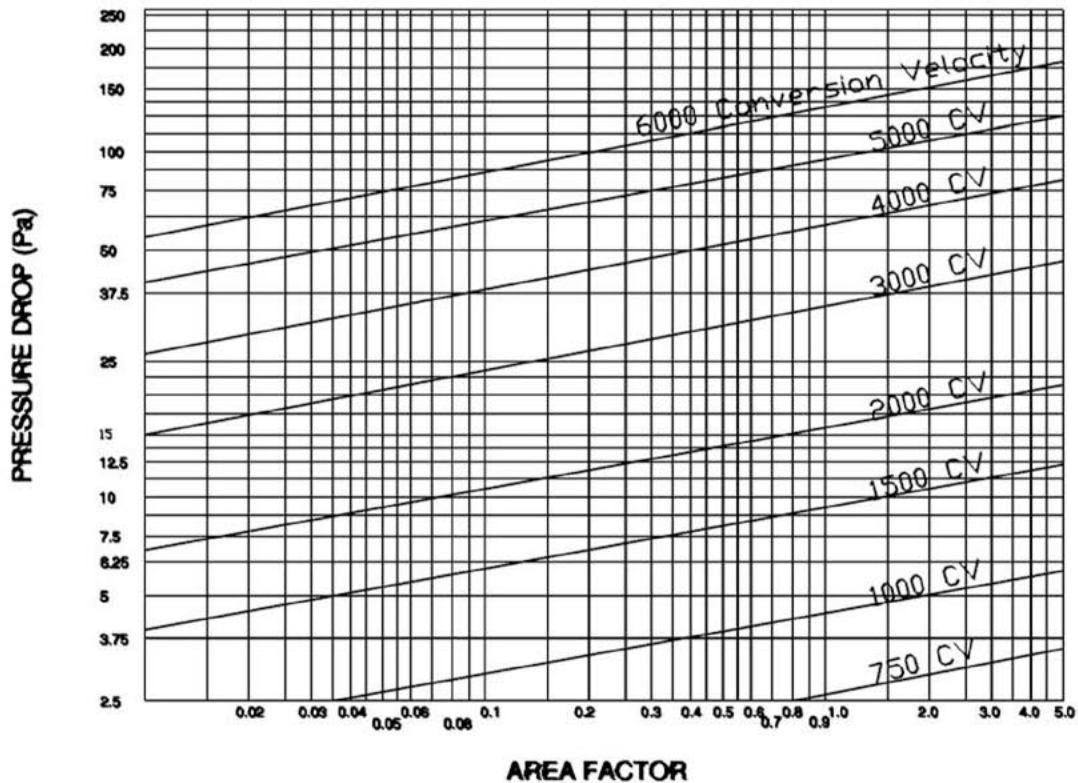




EFD - Round

EFD-JS PERFORMANCE DATA

HEIGHT	WIDTH											
	200	300	400	500	600	700	750	800	900	1000	1100	1200
200	4.760	2.860	2.040	1.580	1.300	1.100	1.020	1.130	0.997	0.941	0.847	0.769
250	4.000	2.380	1.690	1.320	1.080	0.917	0.847	0.914	0.807	0.762	0.685	0.623
300	3.330	2.040	1.450	1.120	0.917	0.775	0.719	0.738	0.652	0.615	0.554	0.503
350	2.630	1.580	1.120	0.877	0.719	0.588	0.565	0.565	0.498	0.459	0.423	0.385
400	2.170	1.300	0.926	0.719	0.588	0.497	0.463	0.457	0.403	0.381	0.343	0.312
500	1.690	1.010	0.725	0.565	0.461	0.390	0.362	0.349	0.308	0.291	0.262	0.238
600	1.380	0.833	0.595	0.463	0.379	0.322	0.299	0.282	0.249	0.235	0.212	0.193
700	1.120	0.676	0.483	0.376	0.308	0.260	0.242	0.229	0.202	0.190	0.171	0.156
800	0.990	0.592	0.423	0.329	0.270	0.228	0.211	0.198	0.175	0.165	0.148	0.135
900	0.877	0.526	0.376	0.292	0.239	0.202	0.188	0.175	0.154	0.145	0.131	0.119
1000	0.762	0.457	0.326	0.254	0.208	0.176	0.163	0.152	0.134	0.127	0.114	0.104
1100	0.691	0.414	0.296	0.230	0.188	0.159	0.148	0.138	0.122	0.115	0.104	0.094
1200	0.632	0.379	0.271	0.211	0.172	0.146	0.135	0.126	0.111	0.105	0.095	0.086



Example: Find the pressure drop through an EFD-JS 600 x 600 handling 1868 ℓ/s

1. Obtain Area Factor from above table for 600 x 600 damper = 0.379
2. Calculate the Conversion Velocity as follows: $(\ell/s \times \text{area factor})/0.472 = (1868 \times 0.379)/0.472 = 1500$
3. Enter Area Factor (0.379), read upward to Conversion Velocity line (1500), from intersection point, read across to Pressure Drop in Pa = 7.5Pa