



FIRE DAMPERS

WALL mounted Model WB-FDV

FLOOR mounted Model WB-FDH



FIRE DAMPER - CURTAIN TYPE

MODEL : WB - FDV Vertical mounted

MODEL : WB - FDH Horizontal mounted

GENERAL DESCRIPTION

Fire Dampers are used to localise areas of fire in a HVAC system.

Our Fire Dampers are tested to a fire integrity of 240minutes.

It is suitable for installations in ducts, walls, floor slabs and fire rated partition walls.

Peripheral flanges are supplied standard for easy installaion.

It has beed tested to BS476:1987 - Fire tests on Building Materials and Structures- Part 20.

Complies with SS333:2012 &

MS555: Part 1(2003) Fire Damper 2nd Rev.

Damper Leakage rate (l/s)		
	For Damper Area	
At pressure of	<0.5sqm	>0.5sqm
250 Pa	45	140
500 Pa	55	190
750 Pa	65	240
1000 Pa	70	290
1250 Pa	80	330

Minimum Size

Vertical installation - 100 x 100

Horizontal installation - 150 x 150

Maximum Size

Single section

Vertical installation - 750 x 1000mm

Horizontal installation - 1200 x 1200mm

Multiple section

Vertical installation - 3000 x 3000mm

Horizontal installation - 2400 x 2400mm



Material Description

Blades

24G Galvanised curtain type in air stream

Frame

20G Galvanised stell channel

Sleeve

20G Galvanised stell channel

Finish

Mill

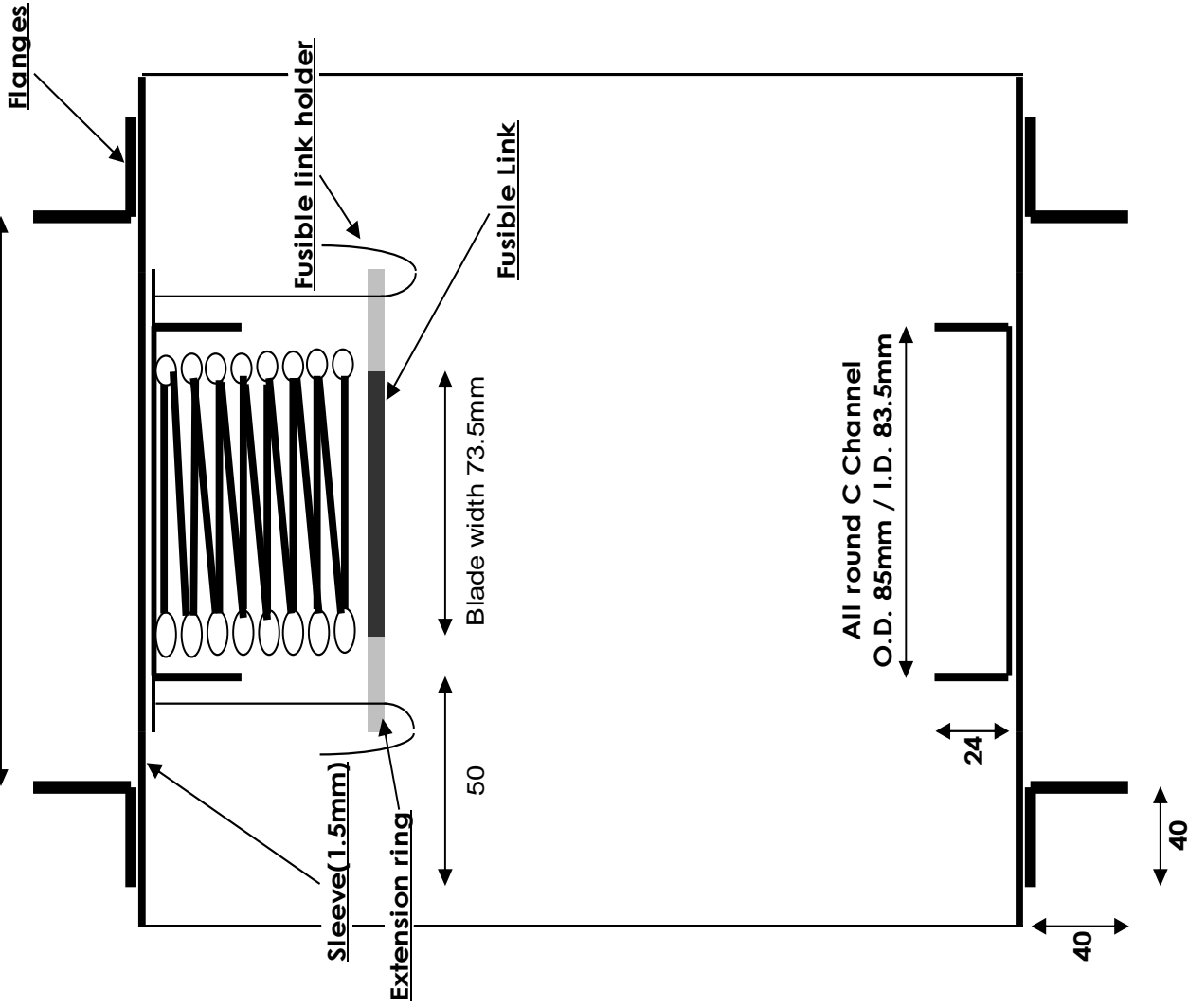
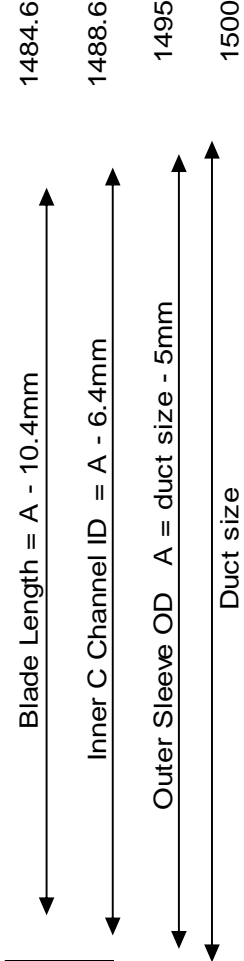
301 stainless steel constant force type
(Horizontal mount only)

Fusible Link

74 Deg C

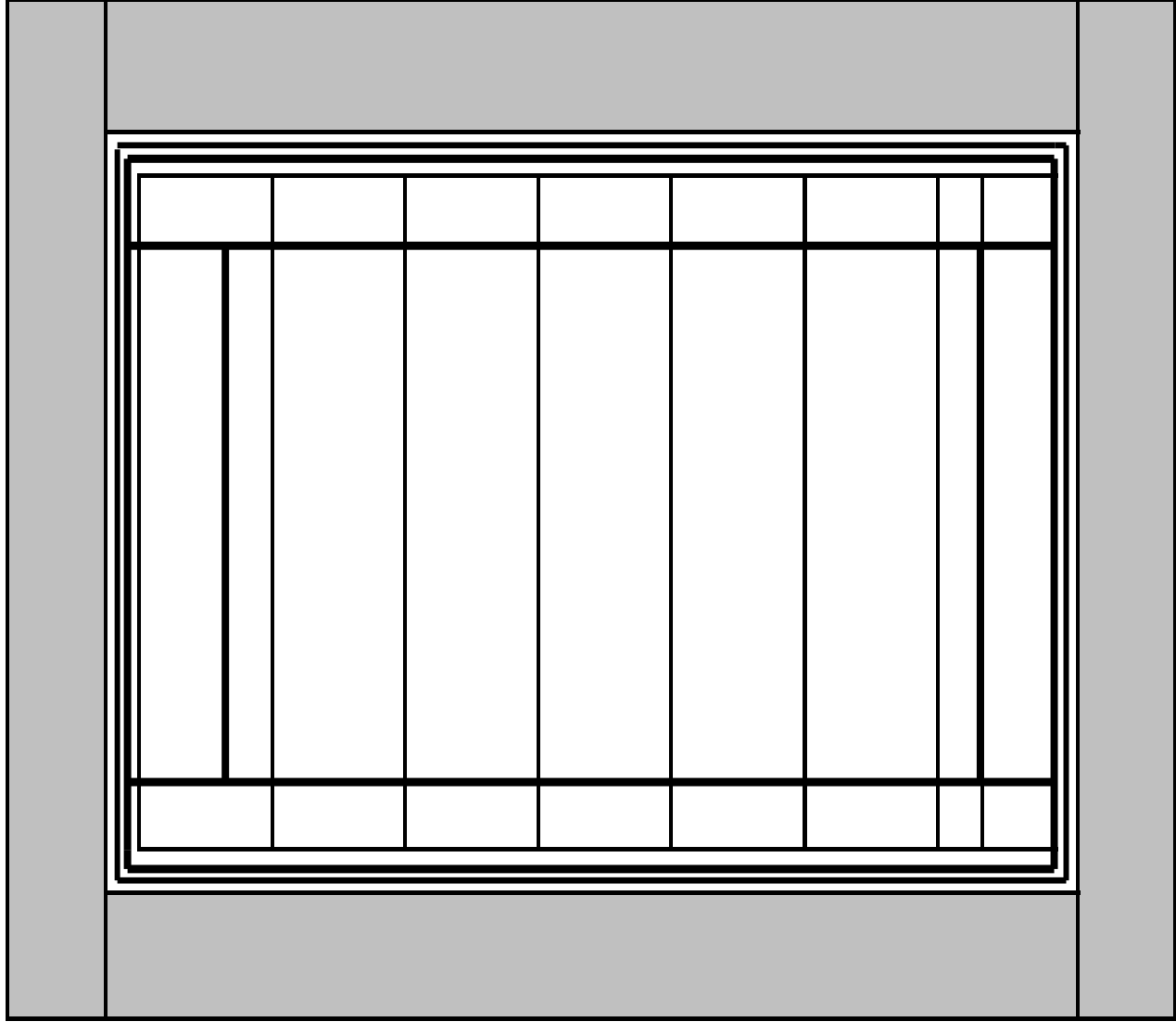
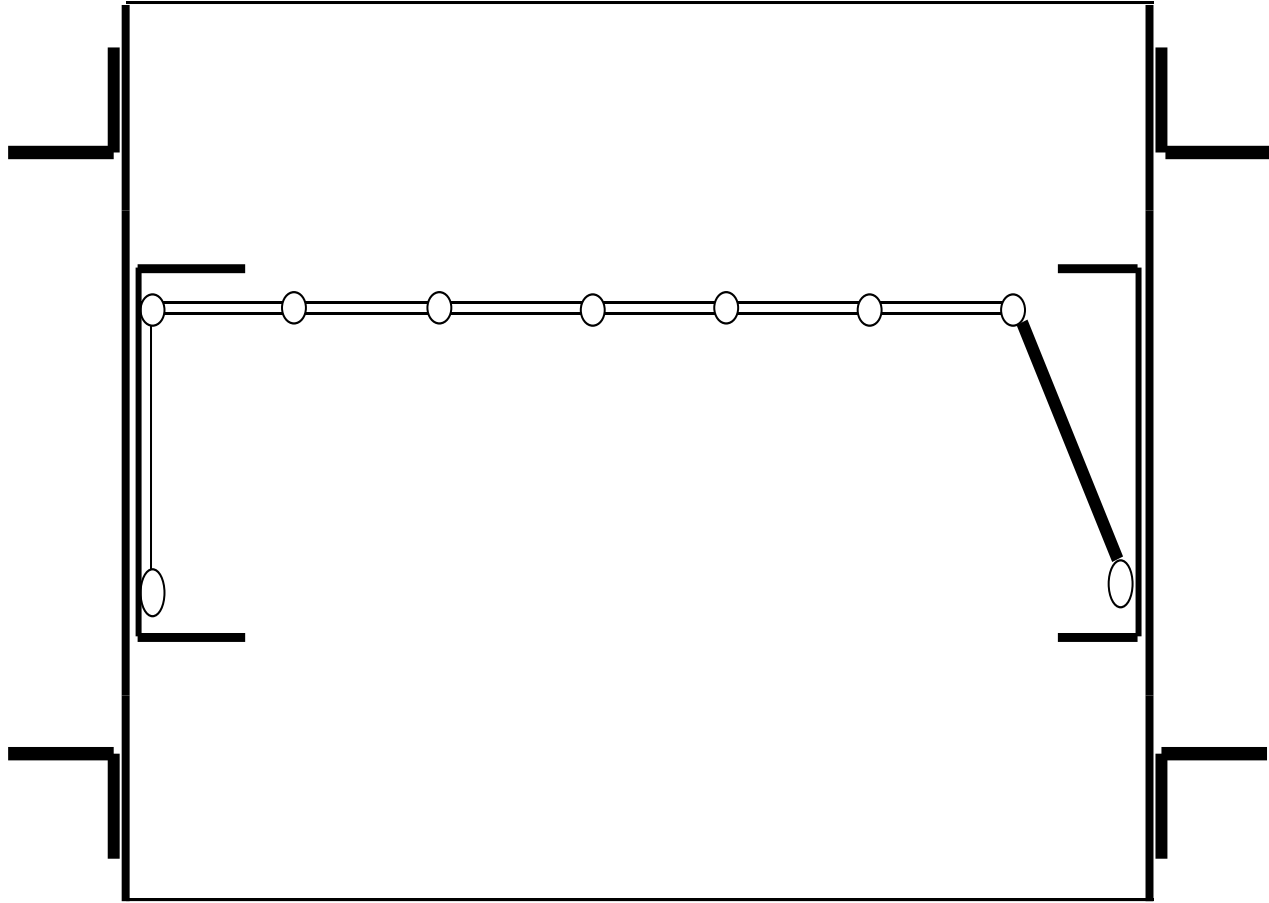
Mounting

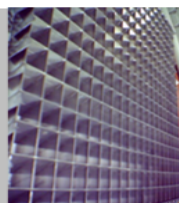
Horizontal or Vertical





MODEL WB-FDV WALL MOUNTED FIRE DAMPER
CLOSED POSITION

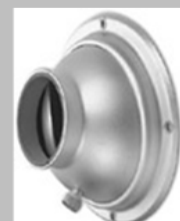
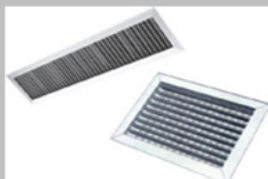




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It's not just about superficial aesthetics, it's about a perfect unison of form, function and reliability



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The purchase should independently determine the suitability of the product for intended application. Thank you for choosing WB Air for your air distribution needs.

PROJECT REFERENCES

AIR DISTRIBUTION PRODUCTS



Its not about superficial aesthetics, it's about a perfect unison of form function & reliability

	PROJECT TITLE	DATE	CONTRACTOR	Remarks	CONSULTANT / ARCHITECT
1	Orchard View Condo @ Anguilla	2010	Sanyo Engineering	Grilles & Dampers	
2	78 Shenton Major A&A	2010	Kurihara Kogyo Co., Ltd	Grilles & Dampers/Actuator	
3	Inter Roller @ Boon Lay	2010	Sing Wah Enterprise	Grilles & Dampers/Actuator	
4	Nestoil	2010	APP Engineering	Grilles & Dampers/Actuator	
5	Creates @University Town	2010	Dai Dan CO., Ltd	Grilles & Dampers/Actuator	
6	Heritage Museum	2010	Kurihara Kogyo Co., Ltd	Grilles & Dampers/Actuator	
7	Changi Cove Hotel	2010	Great Resources	Grilles & Dampers/Actuator	
8	United World College @ Tampines	2010	Great Resources	Grilles & Dampers/Actuator	
9	IBP Changi Phase 3	2010	Powen Electrical	Grilles & Dampers/Actuator	
10	DrillQuip Factory @ Tuas	2010	Powen Electrical	Grilles & Dampers/Actuator	
11	Canadian International Sch	2010	Chester Technologies	Grilles & Dampers/Actuator	
12	SRC @ Jurong Island	2011	Kurihara Kogyo Co., Ltd	Grilles & Dampers/Actuator	
13	Heraeus @ Tuas Ave 5	2011	Kurihara Kogyo Co., Ltd	Grilles & Dampers/Actuator	
14	No 8 Claymore Hill Condo	2011	V3 Construction P/L	Grilles & Dampers/Actuator	
15	HSBC @ Mapletree	2011	BWH Engrg P/L	Grilles & Dampers/Actuator	
16	Jln Tepong	2011	BWH Engrg P/L	Grilles & Dampers/Actuator	
17	S.T @ Chin Bee Rd	2011	BWH Engrg P/L	Grilles & Dampers/Actuator	
18	NJC	2011	Double Mechanical Pte Ltd	Grilles & Dampers/Actuator	
19	Jurong Ville Sec Sch	2011	Double Mechanical Pte Ltd	Grilles & Dampers	
20	LV @ MBS	2011	BWH Engrg P/L	Grilles & Dampers	
21	Woh Hup HQ	2011	Powen Electrical	Grilles & Dampers/Actuator	
22	Jotun @ Tuas	2011	Technical Frigecon	Grilles & Dampers/Actuator	
23	Gombak Camp major A & A	2011	TKK Facility Management	Grilles & Dampers/Actuator	
24	Unilever Asia P/L @ Mapletree biz	2011	Hoong Fung Engrg Works	Grilles & Dampers/Actuator	
25	ITE HQ @ AMK	2011	Great Resources	Aluminum Flexible Duct	
26	Seacare Hotel @ Chin Swee Rd	2011	Shan Ming	Aluminum Flexible Duct	
27	Dorsett Hotel	2011	Bintai Kindenko P/L	Grilles & Dampers/Actuator	
28	Sage @ Nassim Hill	2011	Sanyo Engrg	Grilles & Dampers	
29	St Thomas Walk	2011	Powen Electrical	Grilles & Dampers/Actuator	
30	PLB @ Changi T2	2011	Natural Cool A/C & Engrg P/L	Grilles & Dampers	
31	Quayside Isle	2012	Bintai Kindenko P/L	Grilles & Dampers/Actuator	
32	The Pinnacle Collection @ Sentosa	2012	Powen Electrical	Grilles & Dampers/Actuator	

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33	Korean Church	2012	Bintai Kindenko P/L	Grilles & Dampers/Actuator	
34	Centennia Suites @ Kim Seng	2012	Powen Electrical	Grilles & Dampers	
35	Metropolis @ Buona Vista	2012	Powen Electrical	Aluminum Flexible Duct	
36	Metropolis @ Buona Vista	2012	Quantum Automation P/L	VAV Box	
37	LucasFilm @ Fusionopolis	2012	Kurihara Kogyo Co.,Ltd	Grilles & Dampers/Actuator	
38	Anguillia Park Condo	2012	Natural Cool A/C & Engrg P/L	Grilles & Dampers/Actuator	
39	Singapore Turf Club-Contract 3	2012	Luova Engrg P/L	Grilles & Dampers/Actuator	
40	2M2P	2012	Sing Wah Enterprise P/L	Grilles & Dampers/Actuator	
41	Soundstage @ Mediapolis	2012	Evergreen Engrg & Contrt P/L	Grilles & Dampers/Actuator	
42	Super Coffee Factory @ Tuas West	2013	Natural Cool A/C & Engrg P/L	Grilles & Dampers/Actuator	
43	Westgate @ Boon Lay Way	2013	Bintai Kindenko P/L	Grilles & Dampers/Actuator	
44	Holiday Inn Express @ Clemenceau	2013	Guthrie Engrg(S) P/L	Grilles & Dampers/Actuator	
45	Nucleos @ Biopolis 5	2013	Powen Electrical	Grilles & Dampers/Actuator	
46	One KM @ Tanjong Katong	2013	Great Resources	Grilles & Dampers/Actuator	
47	Pixel Red @ Tai Seng	2013	Powen Electrical	Grilles & Dampers/Actuator	
48	Hillier Condo @ Hillview Ave	2013	Great Resources	Grilles & Dampers/Actuator	
49	Palms @ Sixth Ave	2013	Natural Cool A/C & Engrg P/L	Grilles & Dampers	
50	Singapore Turf Club-Contract 4	2013	Natural Cool A/C & Engrg P/L	Aluminum Flexible Duct	
51	Changi Civil Services Club	2014	Powen Electrical	Grilles & Dampers/Actuator	
52	Fusionopolis Way Tower A/B	2014	Kurihara Kogyo Co.,Ltd	Grilles & Dampers/Actuator	
53	Ngee Ann Poly	2014	Luova Engrg P/L	Grilles & Dampers/Actuator	
54	Ripple Bay @ Pasir Ris Dr4	2014	Powen Electrical	Grilles & Dampers/Actuator	Square Mech
55	Marina Sq A&A	2014	Powen Electrical	Grilles & Dampers/Actuator	Meinhardt
56	Essec @ Nepal Park	2014	Kurihara Kogyo Co.,Ltd	Grilles & Dampers/Actuator	
57	DBS A&A	2014	Dai-Dan Co;Ltd	Aluminum Flexible Duct	KTPI
58	Changi Prison	2014	Great Resources	Grilles & Dampers/Actuator	CPG
59	Genting Hotel @ Juring Town Hall Rd	2014	Bintai Kindenko P/L	Grilles & Dampers/Actuator	
60	Carlton Hotel A&A	2014	Powen Electrical	Grilles & Dampers/Actuator	Beca
61	Sky Green Condo @ Macphenson	2014	Powen Electrical	Grilles & Dampers/Actuator	
62	Woodsville Condo @ 18 Woodsville Close	2014	Natural Cool A/C & Engrg P/L	Grilles & Dampers	CPG
63	Keppel Shipyard @ 51 Pioneer Sector 1	2014	Natural Cool A/C & Engrg P/L	Grilles & Dampers/Actuator	
64	Sennett Condo @ Pheng Geck Ave	2014	Natural Cool A/C & Engrg P/L	Grilles & Dampers	T.Y.Lin

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65	PLB @ T1/T2	2014	Natural Cool A/C & Engrg P/L	Grilles & Dampers	CPG
66	Greenwood Mews Condo	2014	Natural Cool A/C & Engrg P/L	Grilles & Dampers/Actuator	Rankine & Hill
67	Kong Meng San @ 88 Brighthill Road	2014	Koyo M&E P/L	Grilles & Dampers/Actuator	
68	Crown Plaza Hotel Extension @ T3	2015	Powen Engrg P/L	Grilles & Dampers/Actuator	Surbana
69	OUE Tower 1 @ 6 Shenton Way	2015	Powen Engrg P/L	Grilles & Dampers/Actuator	KTPI
70	Downtown Line 3 (16 Station)	2015	Bintai Kindenko P/L	Grille/Alum Flex Duct	P.B
71	Mixed Development @ 15 Cairnhill Rd	2015	Powen Engrg P/L	G&D/Alum Flex Duct	Beca
72	Changi T1/T2 Gangway	2015	Trans Equatorial Engrg P/L	WPC Bargrille	
73	Katong Hotel @ 86 East Coast Rd	2015	Great Resources	Grilles & Dampers/Actuator	UPC
74	Lee Kong Chian(Yunnan)@ NTU	2015	Bintai Kindenko P/L	VAV Box	Meinhardt
75	Lee Kong Chian(Novena)@ Mandalay Rd	2015	Bintai Kindenko P/L	VAV Box	Meinhardt
76	Duo @ Rochor/Beach Rd/Ophir Rd	2015	Kurihara Kogyo Co.Ltd	Grilles & Dampers/Actuator	Beca
77	Amore @ Punggol Central	2015	Natural Cool A/C & Engrg P/L	Grilles & Dampers/Actuator	United Project
78	PLB @ T4	2015	Natural Cool A/C & Engrg P/L	Grilles & Dampers	CPG
79	Thomson Three Condo @ Brighthill Drive	2015	Kembla A/C P/L	Grilles & Dampers/Actuator	
80	Link Hotel @ Tiong Bahru	2015	Supersonic A/C Elect.Engrg P/L	Grilles & Dampers/Actuator	
81	The Scotts Tower @ 38 Scotts Rd	2015	Co-AI Engrg Intergrated Services	Grilles & Dampers	
82	The Glade @ Bedok Rise	2016	Powen Engrg P/L	Grilles & Dampers/Actuator	Beca
83	Goodwood Grand @ 28 Balmoral Rd	2016	Natural Cool A/C & Engrg P/L	Grilles & Dampers	Meinhardt
84	DSO @ 12 Science Park Drive	2016	Shan Ming A/C	Aluminum Flex Duct	
85	Bedok Integrated Complex	2016	Bintai Kindenko P/L	VAV Box/Grille & Dampers/Actuator	Rankine & Hill
86	Downtown East @ Pasir Ris Close	2016	Natural Cool A/C & Engrg P/L	Grilles & Dampers/Actuator	Beca
87	Mapletree @ Tai Seng	2016	Powen Engrg P/L	VAV Box/Grille & Dampers/Actuator	Bescon
88	GSK HQ @ Vista Exchange Green	2016	Powen Engrg P/L	VAV Box/Grille & Dampers/Actuator	Squire Mech
89	Kampung Admiralty@Woodlands Close	2016	Powen Engrg P/L	VAV Box/Grille & Dampers/Actuator	Aecom
90	Jurong Town Hall	2016	Sing Wah Enterprise P/L	Grilles & Dampers/Actuator	Parson
91	Pioneer Polyclinic @Jurong West St61	2016	Bintai Kindenko P/L	Grilles & Dampers/Actuator	Mott Mac
92	St Joseph Nursing Home@Jurong West	2016	Natural Cool A/C & Engrg P/L	Grilles & Dampers/Actuator	Bescon
93	NorthPoint Shopping@Yishun Ave 2	2016	Bintai Kindenko P/L	Grilles & Dampers/Actuator	Squire Mech
94	The Gallery Hotel@Nanson Rd	2016	General Thermal Engrg P/L	Grilles & Dampers/Actuator	JRP
95	Coco Palms Condo	2016	SAS M&E P/L	Grilles & Dampers/Actuator	Meinhardt
96	Clifford Center	2016	Powen Engrg P/L	Grilles & Dampers/Actuator	JRP

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97	Singapore Tourism Board	2016	Siew Engineering P/L	VAV Box	
98	NTU SPC L5	2016	Siew Engineering P/L	VAV Box/Grille & Dampers/Actuator	
99	NTU EMB L7	2016	Siew Engineering P/L	VAV Box/Grille & Dampers/Actuator	
100	HDB Punggol NC1	2016	Great Resources	Grille & Dampers/Actuator	Bescon
101	AMK THK Hospital	2017	Quantum Automation P/L	VAV Box	
102	Bayview Hotel@Bencoolen Street	2017	Accon Engrg P/L	Grille & Dampers/Actuator	EWC
103	Farrer Park Hotel	2017	General Thermal Engrg P/L	Grille & Dampers	JRP
104	Raffles Hospital Extension	2017	Powen Engrg P/L	VAV Box/Grille & Dampers/Actuator	JRP
105	ST Omega @ AMK Electronics Park Rd	2017	Powen Engrg P/L	Grille & Dampers/Actuator	BELMAC
106	JTC Space @ 14 Tuas Ave 1	2017	Bintai Kindenko P/L	Grille & Dampers/Actuator	Aecom
107	The Creek Condo@Toh Tuck Road	2017	Great Resources M&E	Grille & Dampers	KTP
108	Shaw Center/Shaw House	2017	Natural Cool A/C & Engrg P/L	Grille & Dampers/Actuator	Bescon
109	Data Centre @ 27 Tampines St 92	2017	Amcool P/L	Grille & Dampers/Actuator	Plan One Engrg Services
110	Data Centre @ 21 Defu Ave 1	2017	Amcool P/L	Grille & Dampers/Actuator	Plan One Engrg Services
111	Data Centre @ 20 Tampines St 92	2017	Amcool P/L	Grille & Dampers/Actuator	CPG
112	German European Sch@Dairy Farm Rd	2017	Great Resources M&E	Grille & Dampers/Actuator	Beca
113	Changi Airport PLB T1E	2017	Natural Cool A/C & Engrg P/L	Grille & Dampers	J.Roger Preston
114	Bus Depot@Seletar RD299	2017	Natural Cool A/C & Engrg P/L	Grille & Dampers/Actuator	Rankine & Hill
115	1&3 Kallang Junction	2017	Accon Engrg P/L	Grille & Dampers/Actuator	Gims & Associate P/L
116	Proxima@Gambas	2017	Accon Engrg P/L	Grille & Dampers/Actuator	PDC Consultant Engrg
117	Bus Depot@Ulu Pandan RD300	2017	Natural Cool A/C & Engrg P/L	Grille & Dampers/Actuator	Rankine & Hill
118	Housing Development@Canberra Link	2017	Natural Cool A/C & Engrg P/L	Grille & Dampers/Actuator	Bescon
119	Maamunagau Maldives	2018	A Venture Engineering Pte Ltd	Grille & Dampers/Actuator	Ace-Tech Design Pte Ltd
120	National Archives Of Spore	2018	BMS Engrg & Trading P/L	VAV Box	Squire Mech
121	Warehouse @ Bulim Ave	2018	Kurihara Kogyo Co;Ltd	Grille & Dampers/Actuator	Squire Mech
122	Stars Of Kovan Condo	2018	Powen Engrg P/L	Grille & Dampers	T.Y.Lin International P/L
123	68 Residence (Myanmar)	2018	Bintai Kindenko P/L	Grille & Dampers/Actuator	
124	Alps Residence	2018	Great Resources M&E	Grille & Dampers/Actuator	UPC Consultant
125	JTC Furniture Hub	2018	Great Resources M&E	VAV Box/Grille & Dampers/Actuator	Arup Spore P/L
126	Boys Complex	2018	Great Resources M&E	Grille & Dampers/Actuator	CPG
127	No1 Gul St5	2018	Powen Engrg P/L	Grille & Dampers/Actuator	Neam Solution/Vincent Han A
128	45 Leng Kee Rd	2018	Natural Cool A/C & Engrg P/L	Grille & Dampers/Actuator	Tritont Consultant LLP

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	PROJECT TITLE	DATE	CONTRACTOR	Remarks	CONSULTANT / ARCHITECT
129	Data Centre @ 15 Defu Ave 1	2018	Amcool P/L	Grille & Dampers/Actuator	Plan-One Building Services
130	Paterson Services Apt	2018	D.I.S A/C & Elect P/L	WPC Bargrille/Grille	JRP
131	YTC office @ Peninsula Plaza	2018	Accon Engrg P/L	WPC Bargrille/Grille	CMP Consultants P/L
132	Bollore Blue Hub @ Sunview Rd	2018	Sing Wah Enterprise P/L	Bspot/Grille & Dampers/Actuator	
133	Marina East Desailination Plant	2018	Bintai Kindenko P/L	Grille & Dampers/Actuator	Mott Macdonald Consultant
134	Outram Community Hospital	2018	Bintai Kindenko P/L	Dampers/PIR Duct	Surbana Jurong Consultant P/L
135	SMU	2019	Quantun Automation P/L	VAV Box	
136	Toa Payoh West CC	2019	Narural Cool A/C&Engrg P/L	Grille & Dampers	HT M&E Consultant
137	The Verge@2 Serangoon Road	2019	Powen Engrg P/L	Grille & Dampers/Actuator	KTPI
138	Spore Exam & Accessment Board	2019	BMS Engrg & Trading P/L	VAV Box	
139	Woodland Regional Bus Interchange	2019	Kin Xin Engrg P/L	Grille & Dampers/Actuator	Elead Associate P/L
140	Madrasah Education Institute@toa payoh	2019	Luova Engrg P/L	Grille & Dampers	
141	Huamin Pri Sch	2019	Luova Engrg P/L	Grille & Dampers	Squire Mech P/L
142	Naval Base Pri Sch	2019	Luova Engrg P/L	Grille & Dampers	Squire Mech P/L
143	Orchid Park Sec Sch	2019	Luova Engrg P/L	Grille & Dampers	Squire Mech P/L
144	Tampines Pri Sch	2019	Luova Engrg P/L	Grille & Dampers	Squire Mech P/L
145	PSA @ 34 Harbour Drive	2019	Powen Engrg P/L	VAV Box/Grille & Damper	Surbana Jurong Consultant
146	Temasek Poly	2019	Kin Xin Engrg P/L	VAV Box	
147	Punggol Pri Sch	2019	Natural Cool A/C & Engrg P/L	Grille & Dampers	Arup Spore P/L
148	Chin Cheng Polyclinics	2020	M&C Engrg&Trading P/L	VAV Box	
149	JTC Logistic Hub@Gul Circle	2020	Kimly Construction P/L	Grille & Dampers	Meinhardt
150	Changi T2	2020	A&L Engrg P/L	VAV Box	CAG
151	SJSM @ 30 Dover Ave	2021	Natural Cool A/C & Engrg P/L	Grille & Dampers	Squire Mech P/L
152	Senja Nursing Home	2021	Yitac(S) P/L	VAV Box/Grille & Dampers	Surbana Jurong Consultant
153	JTC-WNC @ Woodland Ave 4&9	2021	Powen Engrg P/L	Grille & Dampers	WSP Consultancy P/L
154	Sembawang Sports Hub	2021	Great Resources M&E	VAV Box/Grille & Dampers	Aecom
155	Tee Yih Jia	2021	Great Resources M&E	Grille & Dampers	Surbana Jurong Consultant
156	Fixed Gangway@ T1/T2/T3	2022	PBT Engrg	WPC Bar Grille	JRP
157	Condo @ 21 Stirling Road	2022	Great Resources M&E	Grille & Dampers	Rankine & Hill
158	JTC-MSRF	2022	Sing Wah Enterprise P/L	Grille & Dampers	JRP
159					
160					

PROJECT REFERENCES

Highlights

It's not about superficial aesthetics, it's about a perfect unison of form function & reliability

AIR DISTRIBUTION PRODUCTS

WB Air

Over the past decades, we have corrected, enhanced and are still constantly re-engineering our products, services & operations to meet with the ever demanding and changing economy.

This has led us through numerous projects of different fields & functions. From small cafes to skyscrapers, bomb shelters to sewage plants, showrooms to outdoor atriums & Integrated Resorts.

Our Products have been put to test and have humbly met **form, function & reliability**.

