

HARDWARE LIST – Pyropanel Fire Doors

INTRODUCTION

Hardware items listed are approved for Pyropanel VP and SP Series doorsets. This approval does not apply to other door types. The list is updated regularly but includes obsolete items which are listed for reference purposes. Refer to website www.pacificdoors.co.nz for the most up-to-date list. All items indicated in the list as [PDS] must be factory installed or prepared for by Pacific Door Systems Ltd. Hardware for F0.5 doorsets is listed separately.

1. MECHANICAL LATCHES

Note: For fire doors to comply with AS/NZS 1905.1 the following conditions apply to latches:

- No non-self-latching functions are permitted, including deadlock bolts
- Materials for essential latching components must have a melting point of:
 - For integrity up to and including 120 min not less than 890°C
 - For integrity in excess of 120 min not less than 1030°C

1.1 CYLINDRICAL OR TUBULAR LOCKS AND LATCHES

Make	Code	Note	Max.Rating	
AH	2000-100 series	1	VP120	
Boyd	LE series	1	VP240	
Carbine	EA 3000 series	1	VP240	
Corbin	400, 1400	1	VP240	
Corbin	6600		VP120	
Corkey	800 KT		VP240	
Dorma	CL600		VP240	
Efco	1000	1	VP240	
Efco	5300	1	VP240	
EZSET	EA3000	1	VP240	
EZSET	100EA, 104EA		VP240	
EZSET	RA series		VP240	
Falcon	S 452 DL	1	VP240	
Gainsborough	840 SS, GOV, CV	1	VP240	
Gainsborough	4000 series		VP240	
Gainsborough	4300		VP240	
Gainsborough	4500 series		VP240	
Gainsborough	4600 series		VP240	
Gainsborough	4700 series		VP240	
Goal	UH series	1	VP240	
Hafele	1200		VP240	
Ilco Unican	Model EA3000		VP240	
Ilco Unican	6000 series		VP240	
Ilco Unican	Model 3700		VP120	
Kaba	KL series		VP240	
Kwikset	411 B, C, G, WL		VP120	

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1.1 CYLINDRICAL OR TUBULAR LOCKS AND LATCHES CONTINUED.

Make	Code	Note	Max.Rating	
Laidlaw Thomson	AD series	1	VP240	
Lane	3000, 3100 series	1	VP240	
Legge	G2 series		VP240	
Lemaar	Montoro, Denia	1	VP240	
Lockwood	500		VP120	
Lockwood	530	1	VP240	
Lockwood	930-950-970-990		VP240	
Lockwood	1300 series KNK		VP120	
Lockwood	5200		VP120	
Lockwood	5300	1	VP240	
Lockwood	7000, 7020, 7040, 7070	1	VP240	
Lockwood	110 combination lock	1	VP240	
Lockwood	NX5 and NX6	1	VP240	
Lockwood	Nexion NF22, NF12		VP240	
MCM	500	1	VP120	
Nara	HL 4000 Series	1	VP240	
Nara	HL 8300 Series	1	VP240	
Posse	B300	1	VP240	
Posse	C100 SS series		VP240	
Posse	C300 SS series		VP240	
Premiapri	N14PB		VP240	
Schlage	A and AL Series	1	VP240	
Schlage	D Series	1	VP240	
Schlage	F series		VP120	
Schlage	S Series		VP240	
Schlage	TH885		VP240	
Schlage	Z series		VP120	
Showa	SS G25		VP120	
Stanley Byron	32		VP60	
Stronglok	LHS1082 with Vinco C-70 FDL		VP180	
Vinco	CL7000	1	VP240	
Weiser	A530		VP240	
Wilka	3000		VP120	
Yale	5300	1,2	VP240	

1.2 MORTICE LOCKS AND LATCHES

Make	Code	Note	Max.Rating	
Abloy	2595	1	VP240	
Abloy	3000 series		VP240	

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1.2 MORTICE LOCKS AND LATCHES CONTINUED.

Make	Code	Note	Max.Rating	
Abloy	EL580 series		VP240	
Abloy	4291		VP240	
ABS	1100 series	1	VP120	
Accord	CH-382		VP120	
Accord	CH-382 SS		VP240	
Astra	430-439	1	VP240	
Boyd	ML		VP240	
Chubb	3R35X	1	VP240	
CISA	52300		VP120	
CISA	52760		VP240	
Corbin	Series 9200, 9500, models -01, -51, -54, -55		VP120	
Corbin	Series 9400, 9700, 9700T Models -10, -51, -54, -55, -57		VP240	
Corbin	Series 9800 models -51, -54, -55, -57		VP240	
Dorma	ST9600 series (excluding 9603 deadlock)		VP240	
Efco	3000	1	VP240	
Efco	8000 series	1	VP240	
Erebus	E900, E901, E951, E954, E957		VP120	
Falcon	M and LM2000 series Models 2100,2380,2410,2520,2560,2580		VP120	
Gainsborough	1000 series 1100, 1400, 1500, 1900	10	VP240	
Gainsborough	3000 series 3400, 3500, 3900		VP120	
Glutz	4728, 4828, 4738, 4838		VP240	
Goal	AS-1	7	VP120	
Goal	UC-1	7	VP240	
Goal	UCC; GC Cup Handle		VP240	
Hafele	2500		VP240	
Hafele	2595 with Dialock furniture		VP120	
Hafele	911.23.270		VP240	
Hafele	911.03.181 with Dialock DTSH terminal		VP240	
Kaba	MS mortice lock		VP240	
Lanetronics	E335	1	VP240	
Lane	Astra 430-439		VP240	
Legge	990 series		VP240	
Legge	Ingersoll Rand PRO5596-990 keypad / lever furniture with 990 mortice lock		VP60	
Legge	E800 – Models E800, E801, E802, E803, E851, E852, E853, E857		VP120	

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1.2 MORTICE LOCKS AND LATCHES CONTINUED.

Make	Code	Note	Max.Rating	
Legge	E900 – Models E900, E901, E951, E954		VP120	
Lockwood	Electric Access Deadlatch		VP240	
Lockwood	570, 572, 574		VP240	
Lockwood	3570 and 3570E series incl. digital furniture		VP240	
Lockwood	3670 series Securilock		VP240	
Lockwood	M8600		VP240	
Lockwood	8000 series		VP240	
Lockwood	Digital Access Locks DGT530, DGT572DL, DKO572DL, DKOLKO572DL		VP240	
MIWA	UXAL3H		VP240	
MIWA	AL5HA Card Lock (with auto deadbolt) AL5H series with deadbolt removed		VP180	
Modric	HD99 – Models 9960, 9962, 9970, 9990		VP120	
Novas	6000 series		VP120	
Padde	XS		VP180	
Pennine E900	Models E900, E901, E951, E954, E957		VP120	
Pennine 800	Models 800, 801, 802, 803, 806, 851, 852, 853		VP120	
Russwin	5000 series with Saflok Mark 5 or Saflok Micro Card card key furniture		VP120	
Saflok	Mark 5 Card Key Lock	1, 8	VP240	
Saflok	Micro Card Key Lock	1, 8	VP240	
Saflok	ME, MS, MT series		VP180	
Schlage	M series (except Deadbolts or devices fitted with hold back function)		VP240	
Schlage	L – Models 9010, 9040, 9050, 9060, 9070, 9080, 9082		VP240	
Showa	535-15		VP120	
Showa	LL		VP120	
Tesa	2035		VP120	
Tesa / Onity	HT24 card operated		VP120	
Union	2642, 2657, 2677, 26773, 2370	9	VP120	
Vingcard	Models 1040, 1050, 1060, 1080, 1090, 2100, 3000, 3500 Euro or ANSI lockcase		VP240	
Vingcard	DV80 series Presidio		VP240	
Weider	5750		VP240	
Winkhaus	2501 series		VP240	
Wilka	207		VP240	
Yaletronic	1100		VP180	

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1.3 RIM AND SURFACE MOUNTED LOCKS AND LATCHES

Make	Code	Note	Max.Rating	
Efco	506, 507		VP120	
Lockwood	001 double cylinder automatic deadlatch		VP240	
Lockwood	001/002 combination set		VP120	
Padde	GK Escape latch	3	VP240	[PDS]
Rivers	Model D, 2 and 4 point locks using sexbolts		VP240	
Surelock McGill	Multiple Bolting system with auto latching		VP240	[PDS]

1.4 ROLLER LATCHES

Make	Code	Note	Max.Rating	
Clifton	Roller latch	4	VP30 DA	[PDS]
Kevdon	Roller latch	4	VP30 DA	[PDS]
Legge (Erebus)	1511	4	VP30 DA	[PDS]
Sopers	SP15201	4	VP30 DA	[PDS]
UDM	FR Roller latch	5,6	VP240	[PDS]

- Notes:**
- The latch sets indicated might have either steel or brass strike bolts, strikers, or bolt retaining plates. Steel is rated VP240 while brass is rated VP120.
 - Plastic striker box not permitted on Yale 5300
 - With steel through-bolt fixings
 - The Clifton, Kevdon, Legge and Soper Roller latches may only be used with VP30 Double Action (DA) doorsets in timber frames (including VP30-DA Heritage).
 - The UDM Roller latch may be used with Double or Single Action frames
 - The UDM Roller latch may be the sole means of latching (Head latching or Stile latching) in VP series hinged doorsets.
 - Timber knobs or plastic levers not permitted.
 - In conjunction with any approved mortise lock.
 - Only used in pair doorsets if no taller than 2200mm
 - The locksets must be installed with three holes through the face, one 12.7mm in diameter and two 6.5mm diameter holes 21mm either side

2. POWER BOLTS

Make	Code	Max. Rating	Note	
Loktronic	Locking Bolt (Fail Secure)	VP240	1	[PDS]
		VP120	2	[PDS]
Trimec	ES8000 V-lock	VP240	3	

- Notes:**
- Device is rated VP240 as a supplementary locking device only
 - Device is rated VP120 as a sole latching device, but must be fitted with a brass change of direction block. Only approved with fail-secure or power-to-open function. Device must be fitted with a bevelled bolt or electrically wired to hold the bolt retracted until the door leaf has closed
 - Power-To-Lock (PTL) with supplementary latching. Power-To-Open (PTO) can be sole latching device.

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3. ELECTRIC LATCHES Type: C = Cylindrical; M = Mortise

Make	Code	Type	Max. Rating	
Accord	Digital Latch Bolt Series	C	VP30	
Corkey	800KT	C	VP240	
Lane	Lanetronics E335240	M	VP240	
Lockwood	3570 Series Electric with conventional or digital furniture	M	VP240	
Legge	990MFE	M	VP240	
Miwa	Electron UXAL 3H	M	VP240	[PDS]
Ruswin	5000 with Saflock Mk5 Card Key	M	VP120	
Schlage	M Series electric	M	VP240	
Schlage	Intellis TH885	C	VP240	[PDS]
Schlage	D Series electric	C	VP240	
ILCO	Unican 1000 Series, L1000 Series, EE1000 Series	C	VP120	

- Notes:**
1. Steel latch bolts rated VP240, Brass rated VP120.
 2. For installation of wire-ways in door leaf [PDS] is required.
 3. Latches in fail-safe mode require auxiliary latching. UDM Roller Head latching is recommended.

4. ELECTRIC STRIKES

Make	Code	Max. Rating		
Adams Rite	7800 Series	VP90		
EFF-EFF	43 KI	VP240		
Gainsborough	ES1000 series	VP240		
Harcor	50/12/C	VP240		
Honeywell	RS 2-75959	VP120		
Honeywell	Alpha RS 2-75959	VP240		
Lockwood	EK 35	VP240		
Loktronic	500 Series DKS Strike	VP240		
Padde	ES100 series	VP240		
	ES110 series	VP240		
	ES200 and ES2000 series	VP240		
	ES700 and ES7000 series	VP240		
Padde	MT110	VP240		
Rofu	1400 or 3400 Series	VP120		
Trimec	TS100	VP240		
	TS110	VP240		
	TS200 and TS2000	VP240		
	TS700 and TS7000	VP240		
	ES 3100	VP240		
Von Duprin	3041 or 3042	VP120		
Von Duprin	6211	VP120		

- Notes:**
1. “Fail Safe” electric strikes are only approved if the door closer is fitted to the opening or hinge face of the leaf.
 2. All strikes are approved only in steel jambs.

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5. MAGCLAMPS

Make	Code	Max. Rating	Note	
Efco	GI 300 & GI 300D (VP60 without seal to head of leaf; VP120 with seal; VP240 with seal and fusible screw fixing)	Up to VP240	1-3	
Efco	GI 200 (VP60 without seal to head of leaf; VP240 with seal to head of leaf)	Up to VP240	1-3	
Guardzman	MES series	VP60	1-3	
HFH	10000 Series – 10000, 10002, 10010-ECO, 10030, 10050, 10060-ECO-D	VP240	1-4	
Lockwood	GI 200, GI 300, GI 300D as for Efco GI			
Loktronic	1710 Slimline	VP240	1-4	
Loktronic	ZB1710 Slimline, ZB1710	VP60	1-3	
Locknetics	Models 268, 280, 290, 350, 390	VP240	1-4	
Padde	Models CCW30, EML2H, EML2HD, EML6, EML10, EML11, EML12	VP60	1-3	
Rixon Firemark	1700, FM1710	VP240	1-4	
Rixon Firemark	ZBFM1710	VP60	1-3	
Rofu	8011-LC or 8022(pair)	VP240	1-4	
Securiton	62 Magnalock	VP240	1-4	
Trimec	Z series	VP240	1-3	
Von Duprin	1200 series, DS4010, DS4020, DD4010	VP240	1-4	

- Notes:**
1. Approved for both timber and steel jambs. For installation in timber jambs [PDS] is required. In timber jambs the magclamps body may be housed into oversize stops or located between lengths of stop.
 2. Electromagnet must be connected to jamb *not* door leaf. “Z” bracket installation is only rated VP60. All-steel connectors must be used.
 3. Auxiliary approved mechanical latch is required with all magclamps
 4. For installation on VP90-240 doors [PDS] is required.

6. SHEARLOCKS

Make	Code	Max. Rating		
Locknetics	GF3000 series	VP30	[PDS]	
Von Duprin	700 Series (Obsolete model)	VP30	[PDS]	

- Notes:**
1. Device must be used in conjunction with an auxiliary mechanical latch set
 2. Shearlock may only be fitted to 48mm leaf in a steel-framed doorset, and to a special modified head in a timber framed doorset, both for 30 minutes fire resistance.

7. HOLD OPEN DEVICES

Make	Code	Max. Rating		
Dorma	A50, A70, AW50, AT50, AT70 armatures associated with EM-50 and EM-70 series electromagnetic hold open devices.	VP240		
Dorma	MAG, MAW, MAT armatures for Dorma EM series	VP60-DA		
LCN	SEM7830	VP240		

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8. HINGES

Type	Make	Model	Material	Max. Rating	
Butt	Ajax	100 x 100mm		VP240	[PDS]
	Classic	100 x 100 Ball Bearing	Stainless Steel	VP240	[PDS]
	Dalco 321	100 x 100mm	Stainless Steel	VP240	[PDS]
	Efco	EF10025SSFPBB		VP240	[PDS]
	Efco	SS Ball bearing	Stainless Steel	VP240	[PDS]
	Glutz	SS Ball bearing	Stainless Steel	VP240	[PDS]
	Hafele	926.84, 926.89		VP240	[PDS]
	HK	SS90044B30	Stainless Steel	VP240	[PDS]
	Kingsway	100 x 100	2.5mm Stainless Steel	VP240	[PDS]
	Laidlaw Thompson	100 x 100	3mm Stainless Steel	VP240	[PDS]
	Lane	100 x 100	2.5mm Steel	VP240	[PDS]
	Lockwood	HS 100x100		VP240	[PDS]
	Lockwood	SUS304 100x100		VP240	[PDS]
	McKinney	TB 100 x 100	Steel or S/S	VP240	[PDS]
	Nara	D10 100x100	3mm S/S	VP240	[PDS]
	Nara	All metal spring hinge	100x100	VP240	[PDS]
	Nikon	100 x 100	Stainless Steel	VP240	[PDS]
	Pyropanel	Surface mount 100x70	2.4mm Stainless Steel	VP120	[PDS]
	Schlage	413, 100 x 100	2.5mm Stainless Steel	VP240	[PDS]
	Schlage	417, 100 x 100	3mm Stainless Steel	VP240	[PDS]
	SCL	SUS-304, 102x102mm	Stainless Steel	VP240	[PDS]
	Stanley	PB780, SW781, BB783	Stainless Steel	VP240	[PDS]
	Trio	100 x 100	Mild or Stainless Steel	VP240	[PDS]
Yank	100 x 100	3mm Brass	(Note 4)	[PDS]	
Broad Butt		100h x 125w	S/S 3mm thick	VP60	[PDS]
Rising Butt	Schlage	411, 100 x 75	(Note 3)	VP240	[PDS]
	Surelock	S2 / HA2 / 130 x 75		VP240	[PDS]
Butterfly	Nara	D10 / 100 x 100	Stainless Steel	VP240	[PDS]
Lift-off	UDM	127 x 100	Stainless Steel	VP240	[PDS]
Strap	Tuff TUI	Ball bearing steel/ 250mm		VP240	[PDS]
Continuous	Steel or Stainless steel continuous hinge at least 1.6mm thick, leaf width not less than a 100 x 100 butt hinge, fixed with screws in a staggered pattern at not less than 200mm centres.			VP120	[PDS]

- Restrictions**
1. Brass hinges or screws are generally not approved. Brass plated steel is approved
 2. May only be used as a centre hinge or as an additional hinge of 3 or 4 and must be used in conjunction with Nara D10 hinges to accommodate lift.
 3. Brass hinge is limited to FRR60 minutes in steel frames for leaf sizes up to 1.95m² and FRR 30 minutes in timber frames.

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9. OTHER ELECTRONIC ACCESSORIES

Device	Make	Notes	Max. Rating		
Microswitch Keep	Abloy		VP30		
Reed Switch	Chubb	3	VP240		
	GRI-Telemark	3	VP240		
	Sentrol 1076, 1077, 1078, 1076C, 1077C, 1078C	3	VP240		
	Tane Alarm SD-70, SD-80	3	VP240		
Power Transfer	Abloy 8810 and 8811 Lead Cover	2	VP240	[PDS]	
	Abloy EA280 & EA281 Lead Cover	2	VP240	[PDS]	
	Lane Flexitran	1	VP240	[PDS]	
	Lockwood PWRLEAD		VP240	[PDS]	
	Lockwood power transfer hinge		VP240	[PDS]	
	Loktronic		VP240	[PDS]	
	McKinney TA or TB Series		VP240	[PDS]	
	Schlage PT1	1	VP240	[PDS]	
	Von Duprin EPT 218 & EPT 1024	3	VP240	[PDS]	

- Notes:**
1. Only rated VP30 in timber frame
 2. Where timber frames are used a layer of Intumex L is to be glued to the inside base of the lead cover channel
 3. May only be used in a steel frame

10. SELF LATCHING PAIR HARDWARE FOR INACTIVE LEAF

Make	Type	Note	Max. Rating		
Dalco	DC1851 chain bolt		VP240	[PDS]	
Lockwood	530 or 930 or 950 Deadlatch	2	VP120	[PDS]	
Glutz	GDS-0148-A-SS		VP240		
Glynn Johnson	FB41T or FB41B Autolatch	3	VP30/VP60	[PDS]	
Schlage	D Model 14-043		VP120	[PDS]	
UDM	FR Roller Latch		VP240	[PDS]	
UDM	Autobolt		VP240	[PDS]	
UDM	Chain latch		VP240	[PDS]	
Weider	Model 180		VP240	[PDS]	
Winkhaus	Flushbolt		VP240		
Yank	Flushbolt		VP120	[PDS]	

- Restrictions:**
1. All are approved for timber and steel jambs.
 2. These deadlatches are installed in the door head with an appropriate snib (The Lockwood 8530-57SC is recommended). Backset length should be 70mm minimum. The deadlatches are rated VP60 for door leaves taller than 2400mm.
 3. VP60 in steel jambs only.

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11. SEQUENCE SELECTOR FOR PAIRS

Make	Code	Max. Rating	
Briton	Closerite	VP240	
DCI	600	VP240	
Dorma	SR390	VP240	
Dorma	SR391, SR392, SR393	VP60	
Dorma	TS93 GSR system	VP120	
Efco	3000 & 4000	VP240	
Gainsborough	3350SS	VP240	
Glynn Johnson	COR	VP240	
Hafele	931.71.900	VP240	
Lane	5230, 5180, 5305, 2359, 2369	VP240	
Lockwood / Efco	3000 & 4000	VP240	
Newstar	SF-250F	VP240	
Ryobi	RB-34	VP240	
Tiki	S1991	VP240	
Weider	DS-2800, DS-3600	VP240	

Note: Sequence Selectors are required on pair doorsets with non-self-latching functions such as rebated meeting stiles or central locking.

12. SECURITY ACCESSORIES

Make	Type	Code	Notes	Max. Rating	
Chubb	Hinge Bolt	WS12		VP60	[PDS]
Chubb	Hinge Bolt	WS7	2	VP240	
Duo	Hinge Bolt	HBC, HBW		VP240	
Securicraft	Securichain	MC41	3	VP120	[PDS]

Notes:

- Up to 2 hinge bolts may be used, set into the leaf near the top and/or bottom hinges
- Steel jambs only
- Rated VP60 in Drywall and VP120 in concrete/masonry installation

13. SURFACE MOUNTED CLOSERS

Note:

- Fixture of surface-mounted closers to Pyropanel mineral fibre board cored fire doors requires self-tapping screws, which must penetrate at least 32mm into the leaf.
- Cushioned backcheck function is required on all closers for compliance with AS/NZS 1905.1. All listed closers comply with this requirement.
- Hold open devices are required on certain fire doors for compliance with NZ Building Code C/AS1 3.17.9. Requirements for fire detection to release hold-open devices are given in C/AS1 3.17.10.
- For fire doors on escape routes, NZBC C/AS1 requires closers to be adjustable to satisfy the requirements for maximum forces required to open the door, set out in C/AS1 Appendix C 8.1.2.

Make	Code	Maximum Rating	
Abloy	Modul 230 series	VP240	
Abloy	DC240	VP240	
Accord	90	VP240	

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13. SURFACE MOUNTED CLOSERS CONTINUED

Make	Code	Maximum Rating	
Arrow	7x7 Series Surface mounted	VP90 plastic cover, VP240 metal cover	
Boyd/Axim	1500BC	VP120	
Boyd/Axim	1024 Series	VP90	
Boyd/Axim	7000/1000BC	VP120	
Boyd Sentronic	4010/4110	VP90 plastic cover, VP120 metal cover	
Briton	81 series	VP120	
Briton	121.5 series	VP120	
Briton	220	VP240	
Briton	1000 series	VP120	
Briton	2000 series	VP120	
Briton	2508S	VP120	
Briton	5000	VP120	
Corbin	500 series	VP120	
Delta	70BC Series	VP120	
Doric	DK53	VP120	
Dorma	TS68	VP240	
Dorma	TS73F Series	VP240	
Dorma	TS71	VP240	
Dorma	TS72 without hold open	VP240	
Dorma	TS73 EMF	VP120	
Dorma	TS73 EMR	VP120	
Dorma	TS73 V-F	VP240	
Dorma	TS77 Series	VP240	
Dorma	TS83 Series	VP120	
Dorma	TS90	VP240	
Dorma	TS92 without hold open	VP120	
Dorma	TS93 series incl. EMF or EMR	VP120	
Dorma	TS97	VP120	
Dor-o-matic	SC60, SC80	VP240	
Efco	4080 Series	VP120	
Efco	1300 Series	VP240	
Gainsborough	3000 series	VP240	
Gainsborough	3200 series	VP120	
Gainsborough	3050/3060	VP120	
Gainsborough	3100	VP240	
Geze (Hafele)	TS2000V BC series	VP240	
Geze (Hafele)	TS4000, TS4000DA series	VP120	
Geze (Hafele)	TS5000, TS5000L, TS5500 series	VP120	
Global	70BC series	VP120	
Glutz	PDC-500, PDC-730, PDC-770, PDC-830	VP240	
Hafele	DCL51, DCL55, DCL110	VP90	

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13. SURFACE MOUNTED CLOSERS CONTINUED

Make	Code	Maximum Rating	
HFH	60 BC series	VP120	
Justor	CH series	VP240	
Kaba	702 SIL	VP120	
King	D70 BC, D70 P BC series	VP240	
King	600 BC, 600 P BC series	VP120	
King	900 BC series	VP120	
Lane	70 BC series	VP120	
Lane	SL 65 BC	VP120	
LCN	524, 523T	VP 240	
LCN	4310 ME series	VP90	
LCN	1070 series 1460 series 4010, 4110, 4040 series Sentronic 4010/411 SE	All VP90 with plastic cover, VP120 with metal cover	
Leado	980 series	VP240	
Lockwood	C999 EM hold open to any Lockwood closer	VP240	
Lockwood	3024 series	VP240	
Lockwood	414 / 426 series	VP120	
Lockwood	409 series	VP120	
Lockwood	713 series	VP240	
Lockwood	714 / 726 series	VP240	
Lockwood	724 series	VP240	
Lockwood	1300 series	VP240	
Lockwood	LW 1730 series	VP240	
Lockwood	LW 1830 series	VP240	
Lockwood	LW 2000 series	VP240	
Lockwood	LW 2500 series	VP240	
Lockwood	7714 / 7724 series	VP240	
Lockwood	7726 series	VP240	
Lockwood	Miwa M200	VP120	
Lockwood	Miwa M800	VP240	
Lockwood	8002 Door Operator	VP60	
MAB	400 series	VP120	
MBC	525 BC series	VP240	
MBC	527 BC series	VP120	
Newman Tonks	NT 121 BC	VP240	
Newstar	80	VP120	
Nikon	90	VP240	
NHN	1080 series	VP120	
Novas	1000 BC	VP240	
Novas (Guardzman)	1300 BC	VP240	
Novas (Guardzman)	1500 BC	VP120	

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13. SURFACE MOUNTED CLOSERS CONTINUED

Make	Code	Maximum Rating	
Novas (Guardzman)	3000 BC	VP240	
Pyropanel	TS77 Series	VP240	
Ryobi	7000 Series	VP120	
Ryobi	70 Series	VP120	
Ryobi	90 Series	VP120	
Ryobi	1500 BC Series	VP120	
Ryobi	1550 BC Series	VP90 plastic cover	
Ryobi	D-2550 DA series	VP240	
Ryobi	D-3550 series	VP240	
Sabre	BC730 series: models 732, 733, 734	VP240	
Sabre	Models 735, 736	VP120	
Sabre	836 AS	VP240	
Sabre	2100 B series	VP240	
Spartan	1002-BC	VP240	
Tiki	80 series, 90	VP120	
Vinco	DC67	VP120	
Vinco	DC934	VP240	
Weider	1000 series	VP240	
Weider	1500 BC series	VP120	
Yale	2000 series	VP90 plastic cover VP240 metal cover	
Yale	3501 series	VP120	
Yank	BC1002AS	VP240	

14. CONCEALED CLOSERS

Make	Type	Notes	Max. Rating	
Arrow	7x7 Series		VP120	[PDS]
Briton	531		VP60	[PDS]
Corbin	500		VP120	[PDS]
Dorma	ITS-86	1	VP180	[PDS]
Dorma	ITS-96 without hold open	1	VP180	[PDS]
LCN	3030 Series		VP240	[PDS]
LCN	330	3	VP240	[PDS]
Lockwood	409/091	1	VP240	[PDS]
Newstar	CL60		VP240	[PDS]
Tiki	60		VP240	[PDS]

- Notes:**
1. Installation approved in *steel* jambs only (where noted)
 2. Only surface mounted arm brackets may be used with timber jambs (except see Note 3). Either surface mounted or mortised arm brackets may be used with steel jambs.
 3. Mortised arm may be installed in timber jamb in Heritage VP30 Series doors.
 4. Leaf glazing directly below concealed closers is not permitted except in VP30 Series Heritage fire doors
 5. Concealed closers are not recommended in exterior doors.
 6. Rating VP120 applies where door height exceeds 2400mm.

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15. PANIC EXIT DEVICES

Type	Make	Code	Note	Max. Rating	
Rod/Latch	Adams Rite	3100		VP240	[PDS]
	Briton	373, 374, 377, 378, 379	4	VP240	[PDS]
	Dorma	PHA 2102/2203 (3 point latching only)		VP120	[PDS]
	Glutz	8600		VP240	[PDS]
	JPM	9300, 9400		VP240	[PDS]
	Lionheart	E9801, E9802	4	VP240	[PDS]
	Lockwood	520V	5	VP240	[PDS]
Rod/Latch	Lockwood	5510 and 5530 series		VP240	[PDS]
	Lockwood	9000		VP240	[PDS]
	Massoud (MBC)	571 series		VP60	[PDS]
	Trident	1089	4	VP240	[PDS]
	Weider	3730, 3731 Series	4	VP240	[PDS]
	Von Duprin	2227F, 8827F, 9827F, 9927F	3	VP240/VP60	[PDS]
Rim Latch	Adams Rite	3700		VP240	[PDS]
	Boyd	ED22F		VP60	[PDS]
	JPM	9000, 9100		VP240	[PDS]
	Lockwood	520		VP240	[PDS]
	Lockwood	9000		VP240	[PDS]
	Massoud (MBC)	570 Series		VP60	[PDS]
	Von Duprin	22F, 88F, 98F, 99F	3	VP240/VP60	[PDS]
Mortice Latch	Adams Rite	3300		VP240	[PDS]
	Lockwood	9000		VP240	[PDS]
	Von Duprin	8875F, 9875F, 9975F	3	VP240/VP60	[PDS]
	Weider	8909		VP240	[PDS]

- Restrictions:**
1. VP Series fire doors – All devices are surface-fixed and must be mounted using at least nominal 5mm steel hex bolts passing through the leaf.
 2. All devices in VP Series fire doors may be fitted to doorsets with timber or steel jambs (except see Note 5)
 3. Models without the F suffix have brass components and are therefore only rated 60 minutes.
 4. Device may only be used in conjunction with a fire rated mortice or tubular latch or lockset. Fire resistance is then dependent on the fire resistance of the latch or lockset.
 5. Steel frame only. Length adjustment mechanism for the vertical actuating rods must be fitted with a nylon screw.

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16. DOUBLE-ACTION HARDWARE

Device	Make	Notes	Max.Rating	
Roller latch	Kevdon	3	VP30	[PDS]
	Clifton	3	VP30	[PDS]
	Soper SP15201	3	VP30	[PDS]
	Legge (Erebus) 1511	3	VP30	[PDS]
FR Roller latch	UDM		VP120	[PDS]
Locking	Abloy EL414 Electric Lock	8	VP60	[PDS]
	Abloy EL415 Electric Lock	7	VP60	[PDS]
	Loktronic Power Bolt	1	VP120	[PDS]
	Trimec ES8000 V-lock	9	VP120	[PDS]
Head Spring	Dorma RTS85		VP120	[PDS]
	Lockwood Efco OTC series		VP120	[PDS]
	Lockwood 9800 series		VP120	[PDS]
	Ryobi 30 series	5	VP120	[PDS]
Floor Spring	Dorma BTS80F		VP120	[PDS]
	Dorma BTS75	3	VP30	[PDS]
	Dorma EMB		VP120	[PDS]
	Lockwood Efco EF840 (FS 840)		VP120	[PDS]
	Lockwood 7310/7410		VP120	[PDS]
	Lockwood 7750 series		VP120	[PDS]
	MAB 7312, 7412	4	VP120	[PDS]
Panic Exit Lock	Surelock McGill Multiple Bolt B1	6	VP120	[PDS]

- Notes:**
1. The Loktronic Power Bolt should be integrated with a fire detection system so that the bolt disengages on an alarm or power failure (fail safe or power-to-lock mode). In this mode the lock requires an auxiliary UDM roller latch.
 2. A roller latch is required with double action doorsets. The UDM roller latch is standard
 3. These items are approved only for VP30-DA in timber jambs with special requirements
 4. VP120 with steel arms, VP60 with brass arms
 5. Ryobi 30 series is limited to models without hold-open and with cushioned backcheck function.
 6. Fitted with solid lower latch bar and hollow upper latch bar. Requires fitting of roller restraint auto-bolting mechanism and associated head ramp.
 7. Abloy EL415 (fail unlocked) installed in the frame head, requires a modified strike plate to the head of the door leaf and an auxiliary UDM roller latch.
 8. Abloy EL414 (fail locked) installed in the frame head, requires a modified strike plate to the head of the door leaf but does not require auxiliary latching and may not meet egress requirements.
 9. Power-To-Lock (PTL) with supplementary latching. Power-To-Open (PTO) can be sole latching device

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17. DOOR OPERATORS

Make	Type	Notes	Max. Rating	
Abloy	DA361 swing door operator	1	VP120	
Ditec	Transit UE	2	VP60	
Ditec	Wel E	2	VP60	
Dorma	CD80 Door Operator	3	VP240	
Dorma	ED200 Door Operator	4	VP240	
Dorma	ED800 Door Operator	4	VP240	
LCN	4611, 4622 autoequaliser	5	VP120	
LCN	4630 / 4640 autoequaliser	6	VP240	
LCN	4820 auto equaliser door operator	7	VP120	
Lockwood	8002 series, transom mounted		VP240	

- Notes:**
1. Modifications to installation are required – contact distributor www.levco.co.nz. Local fire or smoke detection is required either side of doors.
 2. In timber-framed door only. Modifications are required to the standard installation - a fire door package is available from the distributor www.doormaticsnz.co.nz. Local fire or smoke detection is required either side of doors.
 3. Transom mounted; fitted to a steel plate, or with long screws into lintel
 4. Special conditions apply for fixing this closer. Closer may only use standard arm and may only be mounted on the push side of the leaf. Operator must revert to closer in the event of fire exposure
 5. Modifications to installation required. Autoequaliser must revert to self-closure on local detection of smoke or heat from fire.
 6. Modification of operator to include steel mounting plate is required
 7. Latching of door leaf must prevent inadvertent operation of opener during fire exposure.

18. VIEWING LENSES

Make	Type	Notes	Max. Rating	
ABUS	2200		VP240	
Chubb	8V001, WS8, WS13		VP120	
Chubb	WS9		VP60	
Doorscope	DS-1000	1	VP60	[PDS]
ERA			VP240	
Hafele	959.06.002 and .008		VP240	
HH	Model B-03		VP240	
Hotel Gong system			VP240	
Lane	Model 006		VP240	
Lockwood	160 Security Door Viewer		VP240	
Nikon	2200, 2180, 2170, 2160		VP240	
Pyropanel	Panaramic		VP120	
Schlage	DV004		VP240	
Yank	Models 2160, 2170, 2180, 2200		VP240	

- Note:**
1. Special factory fitting methods are required for the Doorscope DS-1000.

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19. DOOR EDGE SEALS

Make	Code	Max. Rating	
Firepro	FP1212	VP240	
Firepro	FP1515	VP240	
Lorient	FDBU20 Intumescent sill seals	VP240	
Lorient	HP4002 intumescent perimeter seal	VP240	
Lorient	IS7010si	VP240	
Lorient	IS7020si	VP240	
Lorient	IS7025si	VP240	
Lorient	IS7080si	VP240	
Lorient	IS7085si	VP240	
Lorient	IS8010si	VP240	
Lorient	IS8011si	VP240	
Lorient	IS8020si	VP240	
Lorient	IS8085si	VP240	
Lorient	IS8090si	VP240	
Lorient	IS8091si	VP240	
Lorient	LE1212	VP240	
Lorient	LE1515	VP240	
Pacific Door Systems	Acoustic Compression Seal (bottom edge)	VP60	[PDS]
Pyropanel	Euroseal	VP120	[PDS]
Pacific Door Systems	PFS-3	VP240	[PDS]
Pacific Door Systems	TP390	VP60	[PDS]
Raven	RP4T	VP240	
Raven	RP8	VP240	[PDS]
Raven	RP10 & RP10Si	VP240	
Raven	RP23	VP240	
Raven	RP24	VP240	
Raven	RP25	VP240	
Raven	RP38 & RP38Si (rebated or surface-fixed)	VP240	[PDS]
Raven	RP39	VP240	
Raven	RP60	VP240	
Raven	RP78 and RP78Si	VP240	
Raven	RP93Si	VP240	
Raven	RP99Si	VP240	[PDS]
Raven	RP114 Sill gap seal	VP240	
Raven	RP120	VP240	
Raven	RP150	VP240	

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20. FIRE RESISTANT GLAZING

Make	Maximum Specification with Integrity Rating	Insulation Rating	
DTI Film Overlay	FW60/VP240	-	[PDS]
NEG Firelite	VP30 / FW30-1 / FW30-2 / VP60 / FW60	-	[PDS]
Georgian Wired	VP120 / FW60 / FW30-1 / FW30-2	-	[PDS]
Georgian Wired Clear Laminated Float	VP30 / FW30-2	-	[PDS]
Schott Robax	VP240 / FW30-1 / FW30-2	-	[PDS]
Schott Pyran	VP120 / FW30-1 / FW30-2	-	[PDS]
Schott Vycor	VP240	-	[PDS]
Pyroceram	VP240 / FW60 / FW120	-	[PDS]
Pyrobel 16	FW30-1 / VP30 / VP60	30	[PDS]

Restrictions: Datasheets for FW30-1 and FW30-2 should be consulted for further information on approved glazing