

Information Update

PMP68 Issue 1 Oct 2023

Louvre Performance Classification

All Kingfisher Louvres have now been tested at BSRIA using the HEVAC test method BS EN13030:2001. The performance and classifications are tabulated below. Please cross refer to KF12 for greater explanation of classifications.

S = Single Bank Louvre
 D = Double Bank Louvre
 T = Triple Bank Louvre

To convert from Cd to the K factor:

$$Cd \text{ to } K = 1/Cd^2$$

(All Cd figures quoted are with 4mm mesh)

LOUVRE TYPE	AIRFLOW			RAIN PENETRATION CLASSIFICATION												
	K	Cd	CLASS	FACE VELOCITIES SHOWN IN METRES / SECOND												
				0	0.5	1.0	1.5	2.0	2.5							
S	KW50Z	13.2	0.275	3	C	93.71	C	87.00	C	83.75	D	78.16	D	71.50	D	62.72
	KW75Z	13.4	0.273	3	C	93.06	C	86.70	C	80.20	D	73.96	D	68.10	D	62.69
	KW75S	15.4	0.254	3	B	95.20	C	92.26	C	89.34	C	86.00	C	81.74	D	76.75
	KW75G	15.7	0.252	3	B	96.72	C	94.38	C	92.25	C	90.25	C	88.13	C	85.93
	KW75HPG	10.3	0.311	2	A	99.20	B	98.10	B	96.40	C	94.44	C	91.30	C	85.14
	KW100Z	13.5	0.272	3	C	86.26	C	81.68	D	76.92	D	70.63	D	63.58	D	57.05
	KW100G	14.1	0.266	3	B	95.72	C	92.25	C	88.90	C	85.74	C	83.26	C	81.17
D	KW75D	33.4	0.173	4	A	99.99	A	99.65	A	99.13	B	98.00	C	94.34	C	89.80
	KW100D	30.9	0.180	4	A	99.93	B	97.78	B	95.60	C	91.55	C	81.74	D	68.84
	KW75-75Z	22.5	0.211	3	B	98.69	B	96.31	C	88.27	D	71.00	D	65.59	D	63.55
	KW75-75HPG	18.1	0.235	3	A	99.94	A	99.82	A	99.49	B	97.55	B	96.70	B	95.04
T	KW75-100T	45.0	0.149	4	A	100.0	A	100.0	A	99.99	A	99.53	B	94.12	C	82.66
	KW100-100T	46.9	0.146	4	A	99.27	A	99.12	A	99.00	B	98.98	C	85.90	D	67.37

Table 1: Louvre Rain Rejection Classification

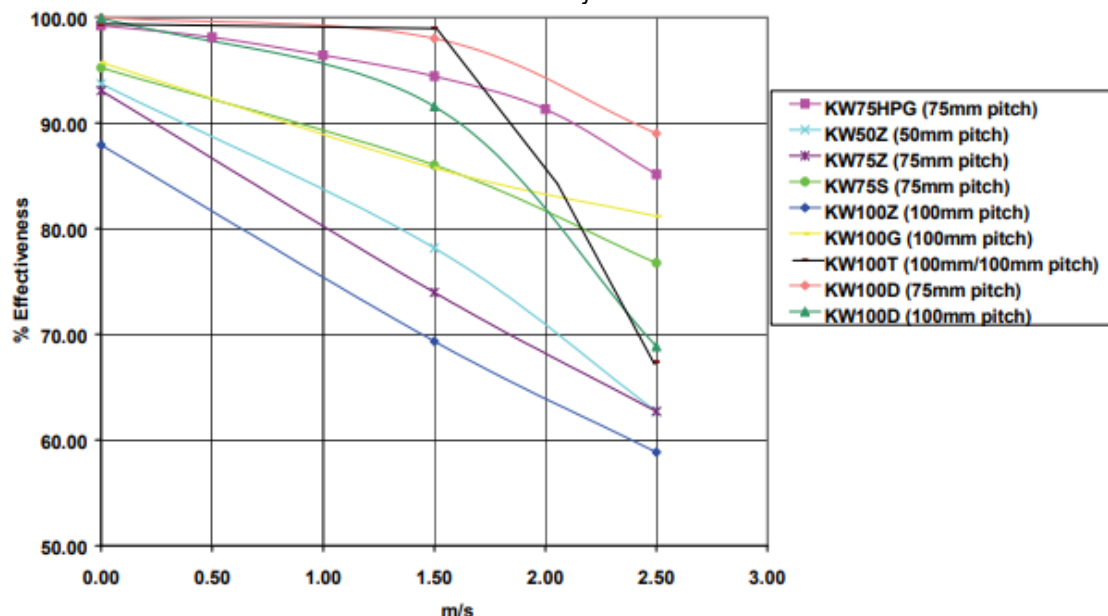


Figure 1: Rain Rejection Effectiveness

Information Update Continued

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LOUVRE TYPE		PRESSURE DROP IN PASCALS AT FACE VELOCITIES SHOWN IN METRES/SEC				
		0.5	1.0	1.5	2.0	2.5
S	KW50Z	2.2	8	18	32	48
	KW75Z	2	8	18	32	55
	KW75S	2.4	9.5	23	38	59
	KW75G	2.7	9.6	25	38	57
	KW75HPG	3	7.5	17	29.3	45
	KW100Z	2	8.5	18.5	33	55.7
	KW100G	2.1	8.4	21	34	50
D	KW100D (75 pitch)	5.2	21	45	82	126
	KW100D (100 pitch)	3.7	19	43	75	125
	KW75-75Z	4.5	17.6	37.3	69.6	105.9
	KW75-75HPG	3.2	13.2	29.3	52	82.8
T	KW75-100T	8.5	30.7	59.9	129.6	203.2
	KW100-100T	7.4	28	63	125	170

S = SINGLE BANK LOUVRE
 D = DOUBLE BANK LOUVRE
 T = TRIPLE BANK LOUVRE

CLASS 2 PRESSURE DROP FIGURES BASED ON LOUVRES
 CLASS 3 FITTED WITH 4mm HDPE MESH
 CLASS 4

Table 2: Louvre Pressure Drop