

Information Update

PMP68 Issue 3 Dec 2024

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 PMP69 for greater explanation of classifications.

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 & Face Velocity (m/s)										Free Area (%)			
	K	Cd	Class	0	0.5	1	1.5	2	2.5	0	0.5	1	1.5		2	2.5	
Single	KW30Z	16.7	0.244	3	B	98.55%	B	97.64%	B	97.34%	B	97.25%	B	95.06%	-	N/A	48%
	KW50Z	13.2	0.275	3	C	93.71%	C	87.00%	C	83.75%	D	78.16%	D	71.50%	D	62.72%	52%
	KW75Z	13.4	0.273	3	C	93.06%	C	86.70%	C	80.20%	D	73.96%	D	68.10%	D	62.69%	58%
	KW75S	15.4	0.254	3	B	95.20%	C	92.26%	C	89.34%	C	86.00%	C	81.74%	D	76.75%	50%
	KW75HPG	10.3	0.311	2	A	99.20%	B	98.10%	B	96.40%	C	94.44%	C	91.30%	C	85.14%	47%
	KW100Z	13.5	0.277	3	C	87.90%	C	81.68%	D	76.92%	D	69.33%	D	63.58%	D	58.85%	61%
Double	KW75D	33.4	0.173	4	A	99.99%	A	99.65%	A	99.13%	B	98.00%	C	94.34%	C	89.80%	32%
	KW100D	30.9	0.180	4	A	99.93%	B	97.78%	B	95.60%	C	91.55%	C	81.74%	D	68.84%	42%
	KW75Z-75Z	22.5	0.211	3	B	98.69%	B	96.31%	C	88.27%	D	71.00%	D	65.59%	D	63.55%	58%
	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%	47%
Triple	KW75-100T	45	0.149	4	A	99.99%	A	99.99%	A	99.90%	A	99.53%	C	94.12%	C	82.66%	42%
	KW100-100T	46.9	0.146	4	A	99.27%	A	99.12%	A	99.00%	B	98.98%	C	85.90%	D	67.39%	42%

*Data shown has louvres with 4mm HDPE mesh

Table 1: Louvre Rain Rejection Classification

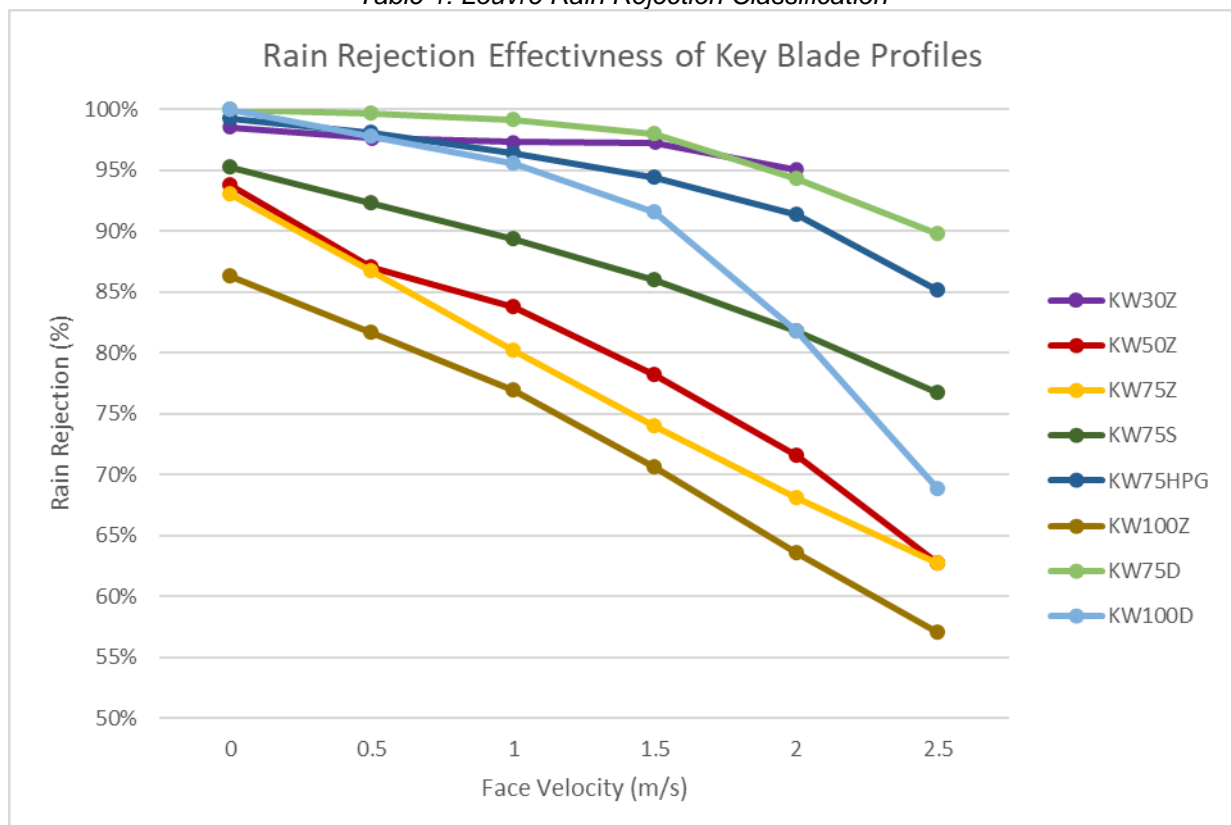


Figure 1: Rain Rejection Effectiveness

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Louvre Type		Pressure Drop (Pa) at Face Velocities (m/s) Shown				
		0.5	1	1.5	2	2.5
Single	KW30Z	4	14.8	23.8	41.7	66
	KW50Z	2.2	8	18	32	48
	KW75Z	2	8	18	32	55
	KW75S	2.4	9.5	23	38	59
	KW75HPG	3	7.5	17	29.3	45
	KW100Z	2	8.5	18.5	33	55.7
Double	KW75D	5.2	21	45	82	126
	KW100D	3.7	19	43	75	125
	KW75Z-75Z	4.5	17.6	37.3	69.9	105.9
	KW75-75HPG	3.2	13.2	29.3	52	82.8
Triple	KW75-100T	8.5	30.7	59.9	129.6	203.2
	KW100-100T	7.4	28	63	125	170

*Data shown has louvres with 4mm HDPE mesh
 Table 2: Louvre Pressure Drop