

Information Update

PMP68 Issue 4 Feb 2025

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

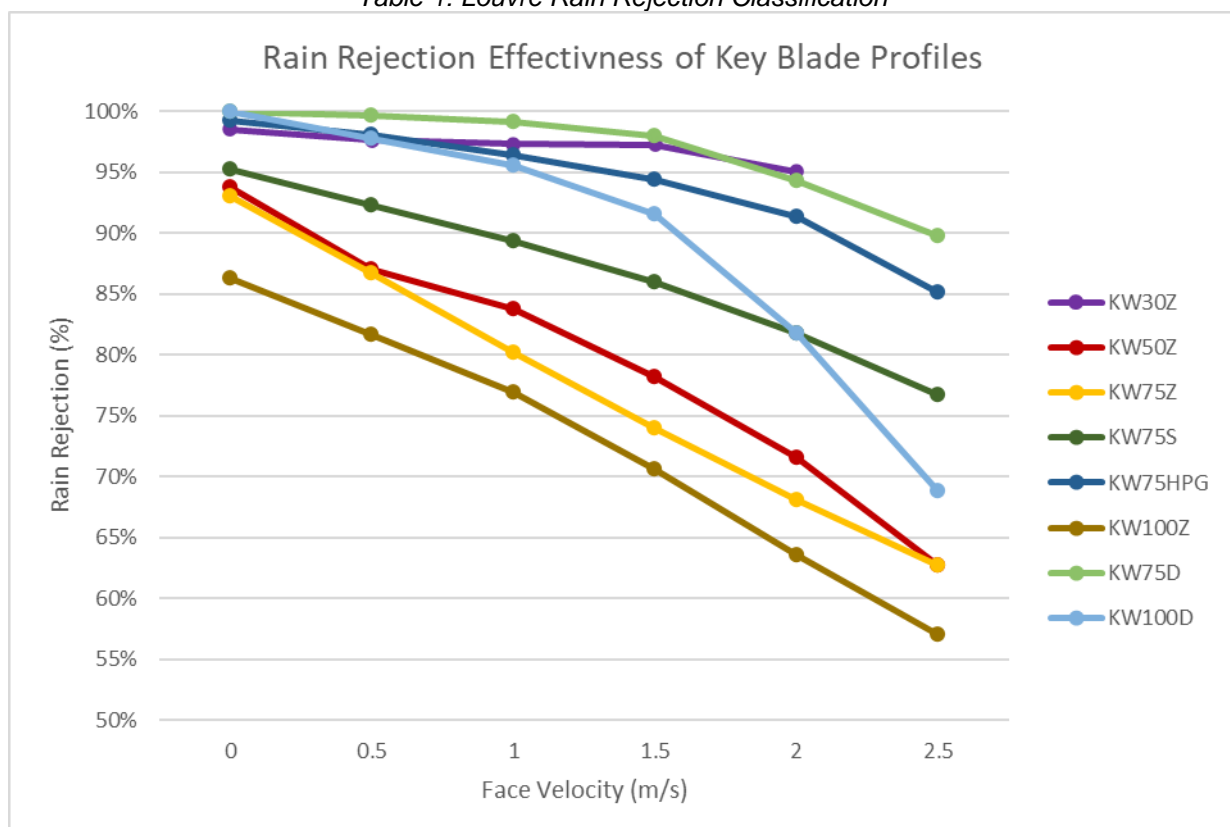


Figure 1: Rain Rejection Effectiveness

Information Update Continued

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Louvre Type	Backing (Mesh)	Pressure Drop (Pa) at Face Velocities (m/s) Shown							
		0.5	1	1.5	2	2.5	3	3.5	
Single	KW30Z	N/A	2.30	9.20	20.60	36.60	57.20	82.40	112.20
		4mm	2.50	10.10	22.70	40.30	60.30	90.70	123.50
	KW50Z	N/A	1.60	6.41	14.42	25.63	40.05	57.67	78.50
		4mm	2.00	7.99	17.98	31.97	49.95	71.93	97.90
		15mm	1.78	7.13	16.05	28.54	44.59	64.21	87.40
	KW75Z	N/A	1.59	6.37	14.32	25.46	39.79	57.30	77.98
		4mm	2.01	8.05	18.11	32.20	50.32	72.46	98.62
		15mm	1.85	7.39	16.62	29.55	46.17	66.48	90.49
	KW75S	N/A	1.94	7.76	17.47	31.05	48.52	69.87	95.10
		4mm	2.33	9.30	20.93	37.20	58.13	83.70	113.93
		15mm	2.15	8.61	19.37	34.44	53.81	77.48	105.46
	KW75HPG	N/A	1.23	4.93	11.08	19.70	30.79	44.33	60.34
		4mm	1.55	6.20	13.96	24.81	38.77	55.83	75.99
		15mm	1.39	5.58	12.55	22.31	34.86	50.19	68.32
	KW100Z	N/A	1.55	6.20	13.96	24.81	38.77	55.83	75.99
		4mm	1.95	7.82	17.59	31.28	48.87	70.38	95.79
		15mm	1.77	7.09	15.94	28.34	44.28	63.77	86.80
	Double	KW75D	4mm	5.20	20.00	45.10	80.20	125.30	180.40
KW100D		N/A	4.24	16.98	38.20	67.90	106.10	152.78	207.96
		4mm	4.63	18.52	41.67	74.07	115.74	166.67	226.85
		15mm	4.53	18.11	40.76	72.46	113.21	163.02	221.89
KW75Z-75Z		4mm	3.40	13.50	30.30	53.90	84.20	121.30	165.10
KW75-75HPG	4mm	2.70	10.90	24.40	43.50	67.90	97.80	133.10	
Triple	KW75-100T	N/A	6.16	24.65	55.47	98.62	154.09	221.89	302.02
		4mm	6.85	27.39	61.63	109.57	171.20	246.53	335.56
		15mm	6.58	26.31	59.21	105.26	164.47	236.83	322.35
	KW100-100T	N/A	6.32	25.30	56.92	101.20	158.12	227.69	309.92
		4mm	7.04	28.15	63.33	112.59	175.92	253.33	344.81
		15mm	6.76	27.03	60.81	108.10	168.91	243.23	331.07

Table 2: Louvre Pressure Drop