

Ventilation Solutions – Louvre Walls





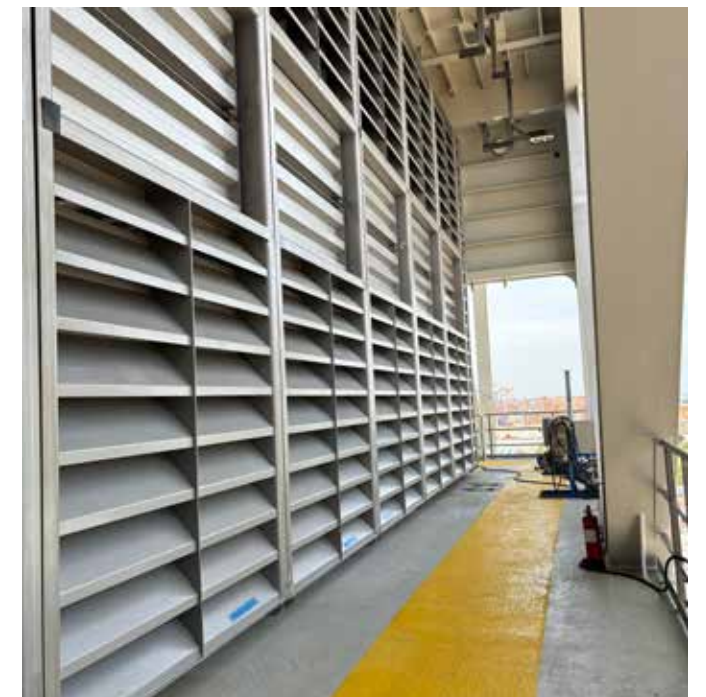
Louvre Walls

Mech-Tool Engineering Ltd (MTE) designs, manufactures, and installs world-class weather louvres and cassette wall systems — tailored to meet specific project requirements in the most cost-effective way. Panels can be supplied as framed units or as unframed systems, in which the panels are fixed directly to support posts using self-fastening screws. A single mechanical through-bolt ensures that no panel becomes detached during extreme storm events, providing a simple, robust and secure installation method suitable for offshore and harsh-weather applications.

MTE weather louvres are designed for ease of installation — with no need for specialist equipment — making them the smart choice for fast, efficient deployment.

They are used across oil & gas, renewables, and industrial facilities, where ventilation systems must perform without compromise. Whether for intake or exhaust, our louvres protect openings against rain and harsh weather while ensuring consistent airflow.

Typical applications include offshore wind farm substations and offshore topside platforms.





The Complete Solution

- Stainless steel 316L materials
- Lightweight
- Simple cost-effective installation
- Maintenance-free stainless steel
- Bespoke design solutions provided
- Quality accreditation to ISO 9001:2015
- Health & Safety Accreditation to ISO 4500:2018
- Environmental Accreditation to ISO 1401:2015

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MTE Weather louvres do not have any moving parts and are designed to work as efficiently as possible at letting air through whilst keeping water out.

Airflow – based on the volume flow rate of air required and the size of the louvre face.

BS EN 130030:2001 defines water penetration banding as follows

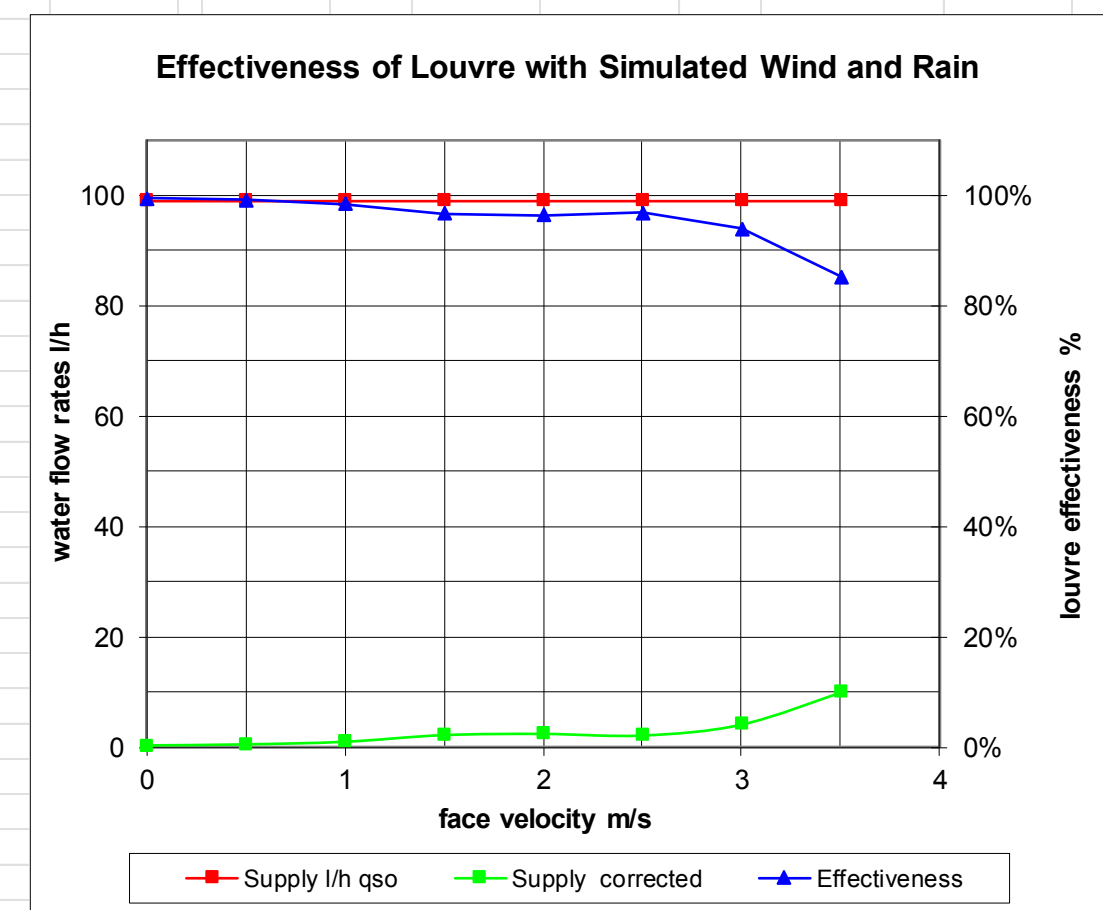
Class	Maximum allowable penetration of rain l/h.m ²
A	0.75
B	3.75
C	15
D	Greater than 15

MANUFACTURER		MTE
	MODEL	TP-PL-001

Date	19/07/2016
Contract	59680

				louvre height	975 mm
Simulated rainfall	75	mm/hr		louvre width	940 mm
Wind speed	13.0	m/s		louvre area	0.917 m ²

VENTILATION RATE		WATER FLOW RATES		Effectiveness	Class
Volume m³/s	Velocity m/s	Supply l/h	Penetrated l/h		
0.00	0.00	99.0	0.4	99.5%	A
0.46	0.50	99.0	0.6	99.2%	A
0.92	1.00	99.0	1.0	98.5%	B
1.38	1.50	99.0	2.3	96.7%	B
1.84	2.00	99.0	2.5	96.4%	B
2.29	2.50	99.0	2.2	96.8%	B
2.75	3.00	99.0	4.2	93.9%	C
3.21	3.50	99.0	10.1	85.3%	C







Your Safety. Our Priority.

The MTE Advantage

- ✓ **Proven Performance** – Designed to meet your environmental requirements
- ✓ **Custom-Built Solutions** – Tailored to your project needs
- ✓ **Trusted Globally** – Installed in major energy and industrial facilities worldwide
- ✓ **Efficient Installation** – No specialist tools required



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