

ZEFYR STANDARD LOUVRE

STANDARD ARCHITECTURAL PERFORMANCE LOUVRES

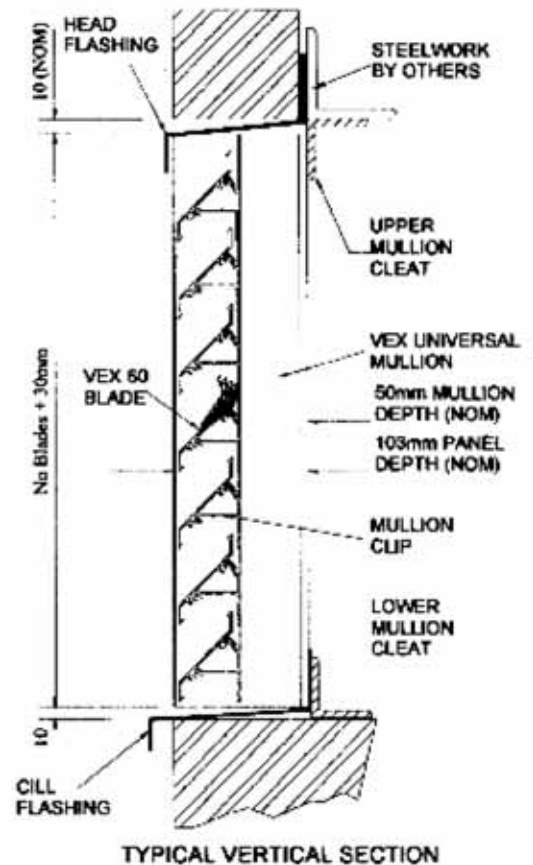
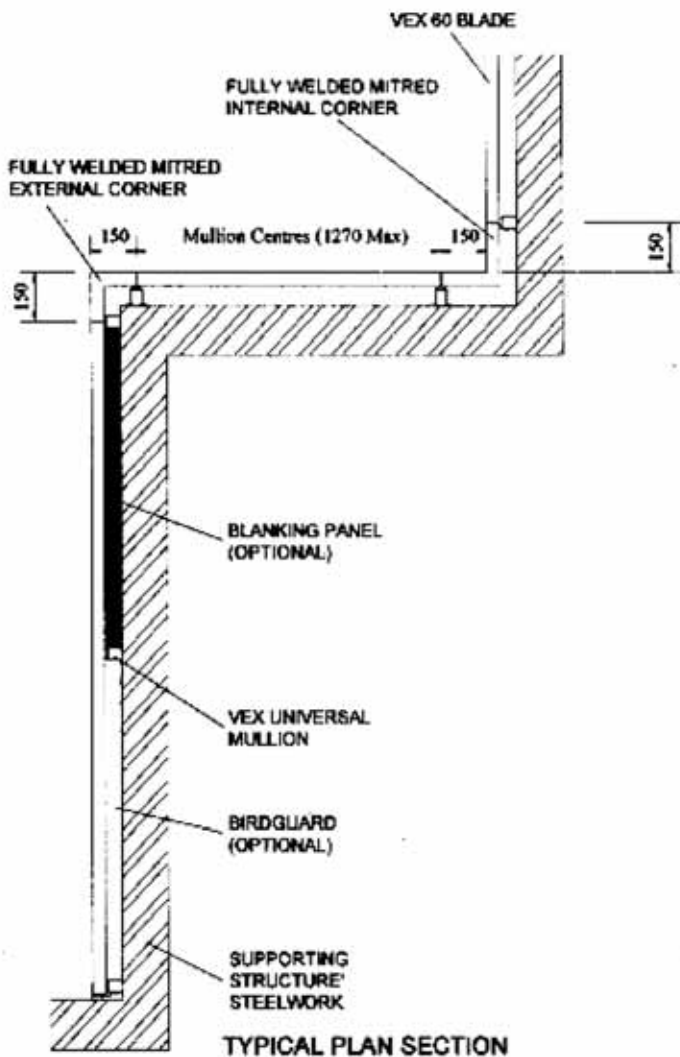


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STANDARD 60 CONTINUOUS LOUVRE



GENERAL

Fully tested louvre system: Structurally / Weatherability / Aerodynamically

BLADES

Extruded aluminium HE9TF, vertical pitch 60mm with integral aluminium clip system

MULLIONS

Mullions can either be constructed from extruded aluminium (HE9TF) or press-formed 2.0mm thick aluminium sheet metal, factory fitted with durable aluminium "snap on" clips

FLASHINGS

Flashings are constructed from aluminium sheet 1.5mm / 2.0mm / 3.0mm thick

BIRDCUARD

Expanded aluminium mesh (flattened) supplied in sheets with fixings for site installation

INSECT MESH

Fine woven aluminium mesh supplied in rolls with fixings for site installation

BLANKING PANELS

Aluminium sheet 1.0mm / 1.5mm / 2.0mm thick. Composite insulated panels available to suit specific thermal requirements

CORNERS

Internal / External corner blades fully welded or cleated to suit corner angle

CLEATS

Standard range of fixing cleats supplied to suit individual installations

SITE FIXINGS

Fixings can be supplied to suit individual installations if required

STEELWORK

Secondary steelwork systems are available if required, designed to suit individual applications

FINISH

Options - Mill finished aluminium - Polyester powder coated to a comprehensive range of colours - Anodised AA5 / AA25 Natural / Coloured

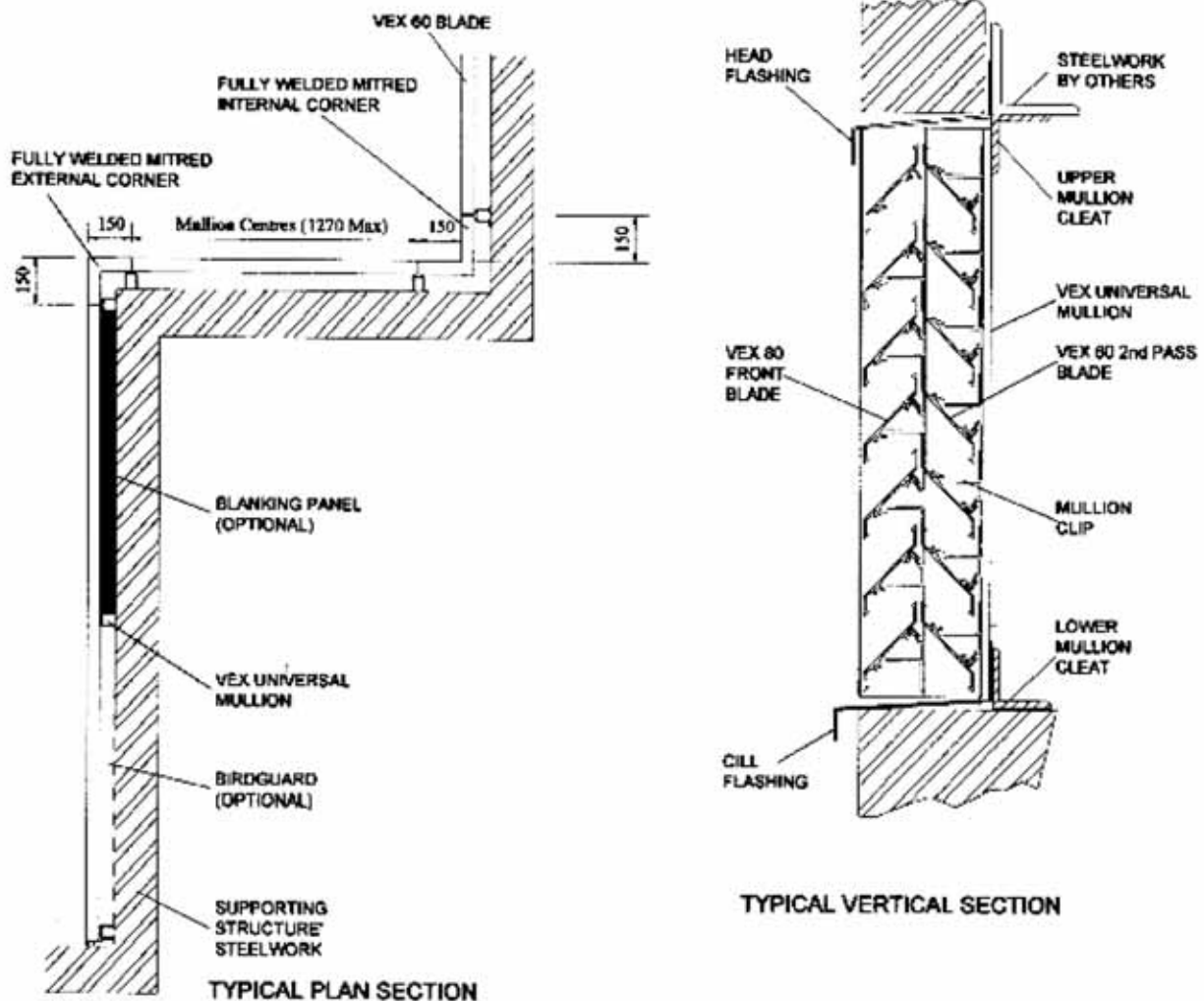
FREE AREA

48% geometric free area through the blades. Performance Refer to 'Pressure Drop' and 'Weatherability' Performance Data Sheets

WEIGHT

11.45 Kg/m² (nom) face area when with standard Universal Mullion

STANDARD 60 CONTINUOUS DOUBLE PASS LOUVRE



GENERAL

High performance, fully tested louvre system - Structurally / Weatherability / Aerodynamically

BLADES

Extruded aluminium HE9TF, vertical pitch 60mm with integral aluminium clip system. Site assembled double pass configuration

MULLIONS

Mullions can either be constructed from extruded aluminium (HE9TF) or press-formed 2mm thick aluminium sheet metal. Factory fitted with durable aluminium "snap on" clips

FLASHINGS

Flashings are constructed from aluminium sheet 1.5mm / 2.0mm / 3.0mm thick

BIRDCUARD

Expanded aluminium mesh (flattened) supplied in sheets with fixings for site installation

INSECT MESH

Fine woven aluminium mesh supplied in rolls with fixings for site installation

BLANKING PANELS

Aluminium sheet 1.0mm / 1.5mm / 2.0mm thick. Composite insulated panels available to suit specific thermal requirements

CORNERS

Internal / External corner blades fully welded or cleated to suit corner angle

CLEATS

Standard range of fixing cleats supplied to suit individual installations

SITE FIXINGS

Fixings can be supplied to suit individual installations if required

STEELWORK

Secondary steelwork systems are available if required, designed to suit individual applications

FINISH

Options -Mill finished aluminium - Polyester powder coated to a comprehensive range of colours - Anodised AA5 / AA25 Natural / Coloured

FREE AREA

48% geometric free area through the blades

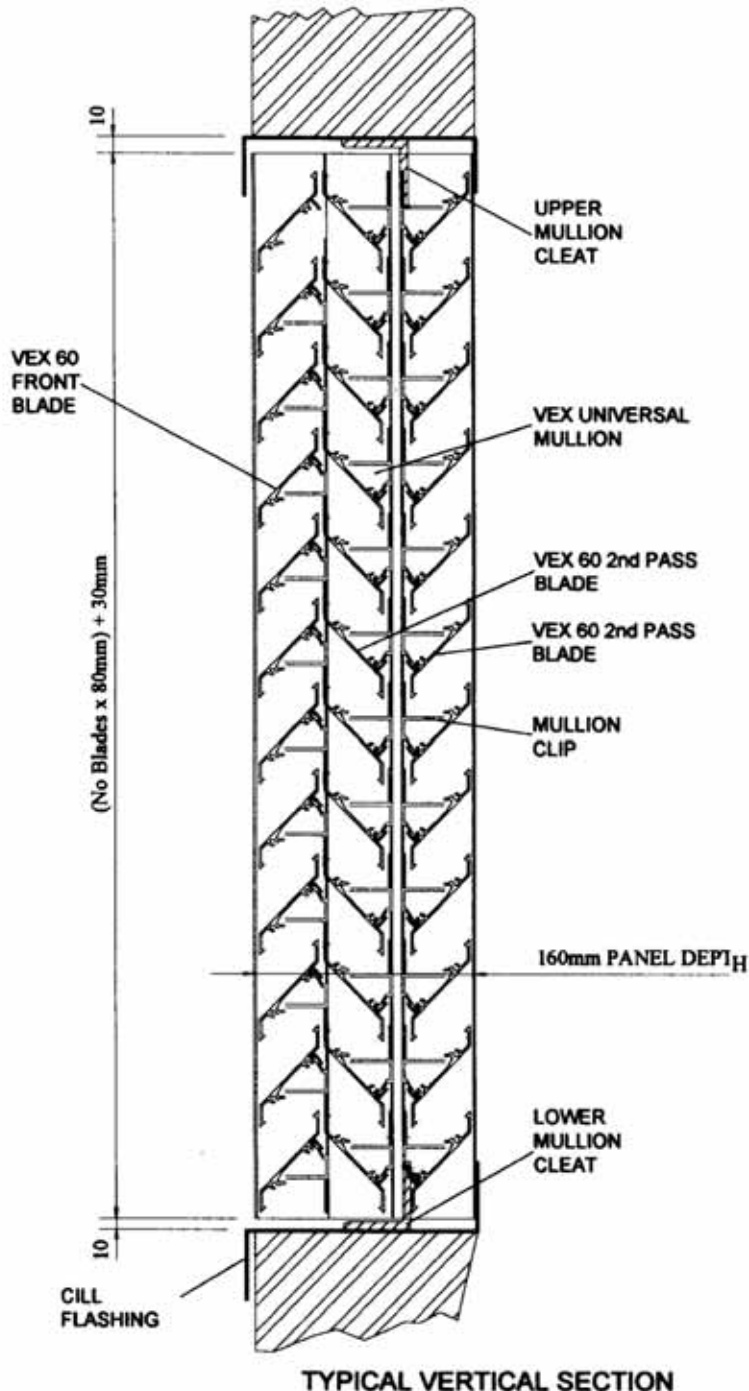
PERFORMANCE

Refer to 'Pressure Drop' and 'Weatherability' Performance Data Sheets

WEIGHT

21.12 Kg/m² (nom) face area when with standard Universal Mullion

STANDARD 60 CONTINUOUS TRIPLE PASS LOUVRE



GENERAL

High performance fully tested louvre system - Structurally / Weatherability / Aerodynamically

BLADES

Extruded aluminium HE9TF, vertical pitch 60mm with integral aluminium clip system. Site assembled triple pass configuration

MULLIONS

Mullions can either be constructed from extruded aluminium (HE9TF) or press-formed 2mm thick aluminium sheet metal. Factory fitted with durable aluminium "snap on" clips

FLASHINGS

Flashings are constructed from aluminium sheet 1.5mm / 2.0mm / 3.0mm thick

BIRDCUARD

Expanded aluminium mesh (flattened) supplied in sheets with fixings for site installation

INSECT MESH

Fine woven aluminium mesh supplied in rolls with fixings for site installation

BLANKING PANELS

Aluminium sheet 1.0mm / 1.5mm / 2.0mm thick. Composite insulated panels available to suit specific thermal requirements.

CORNERS

Internal/External corner blades fully welded or cleated to suit corner angle. Cleats Standard range of fixing cleats supplied to suit individual installations

SITE FIXINGS

Fixings can be supplied to suit individual installations if required

STEELWORK

Secondary steelwork systems are available if required, designed to suit individual applications

FINISH

Options -Mill finished aluminium - Polyester powder coated to a comprehensive range of colours - Anodised AA5 / AA25 Natural / Coloured

FREE AREA

48% geometric free area through the blades

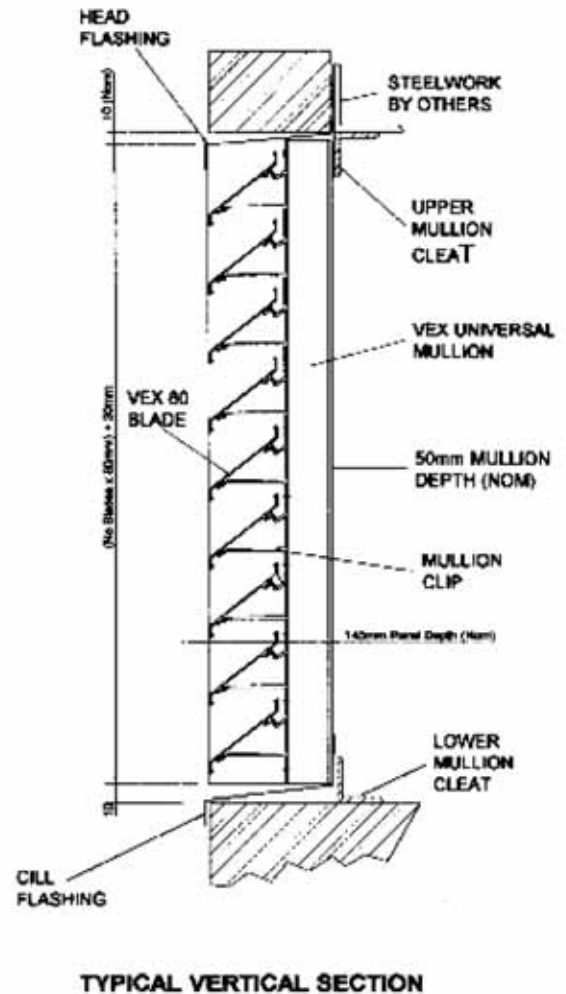
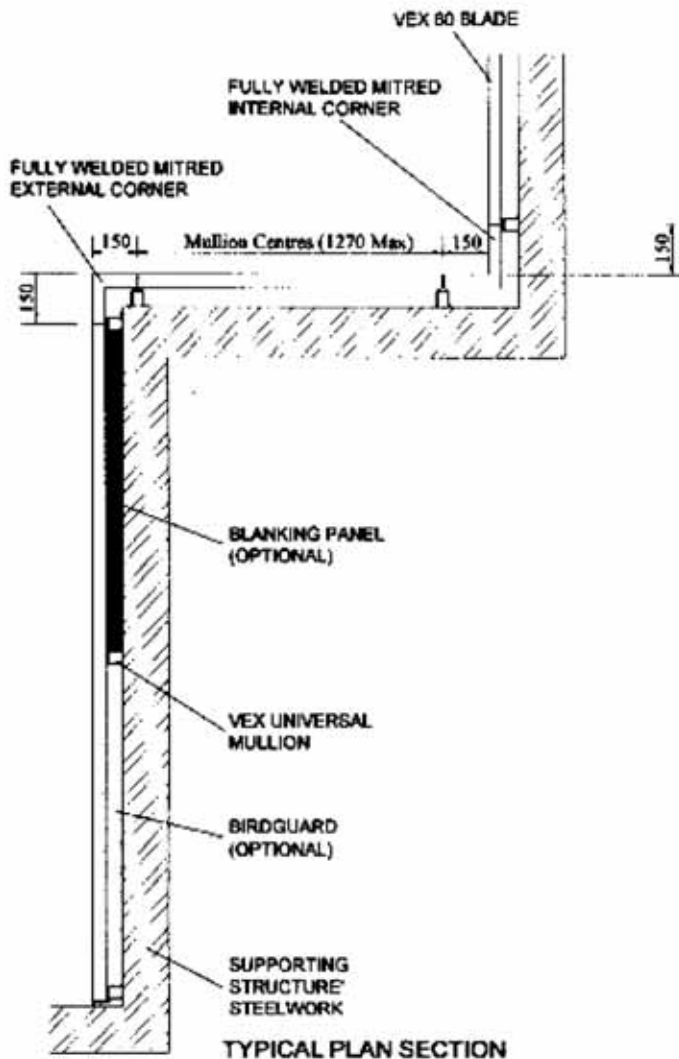
PERFORMANCE

Refer to 'Pressure Drop' and 'Weatherability' Performance Data Sheets.

WEIGHT

36.0 Kg/m² (nom) face area when with standard Universal Mullion

STANDARD 80 CONTINUOUS LOUVRE



GENERAL

Fully tested louvre system - Structurally / Weatherability / Aerodynamically

BLADES

Extruded aluminium HE9TF, vertical pitch 80mm with integral aluminium clip system.

MULLIONS

Mullions can either be constructed from extruded aluminium (HE9TF) or press-formed 2mm thick aluminium sheet metal. Factory fitted with durable aluminium "snap on" clips

FLASHINGS

Flashings are constructed from aluminium sheet 1.5mm / 2.0mm / 3.0mm thick

BIRDCUARD

Expanded aluminium mesh (flattened) supplied in sheets with fixings for site installation

INSECT MESH

Fine woven aluminium mesh supplied in rolls with fixings for site installation

BLANKING PANELS

Aluminium sheet 1.0mm / 1.5mm / 2.0mm thick. Composite insulated panels available to suit specific thermal requirements

CORNERS

Internal / External corner blades fully welded or cleated to suit corner angle

CLEATS

Standard range of fixing cleats supplied to suit individual installations

SITE FIXINGS

Fixings can be supplied to suit individual installations if required

STEELWORK

Secondary steelwork systems are available if required, designed to suit individual applications

FINISH

Options - Mill finished aluminium - Polyester powder coated to a comprehensive range of colours - Anodised AA5 / AA25 Natural / Coloured

FREE AREA

48% geometric free area through the blades

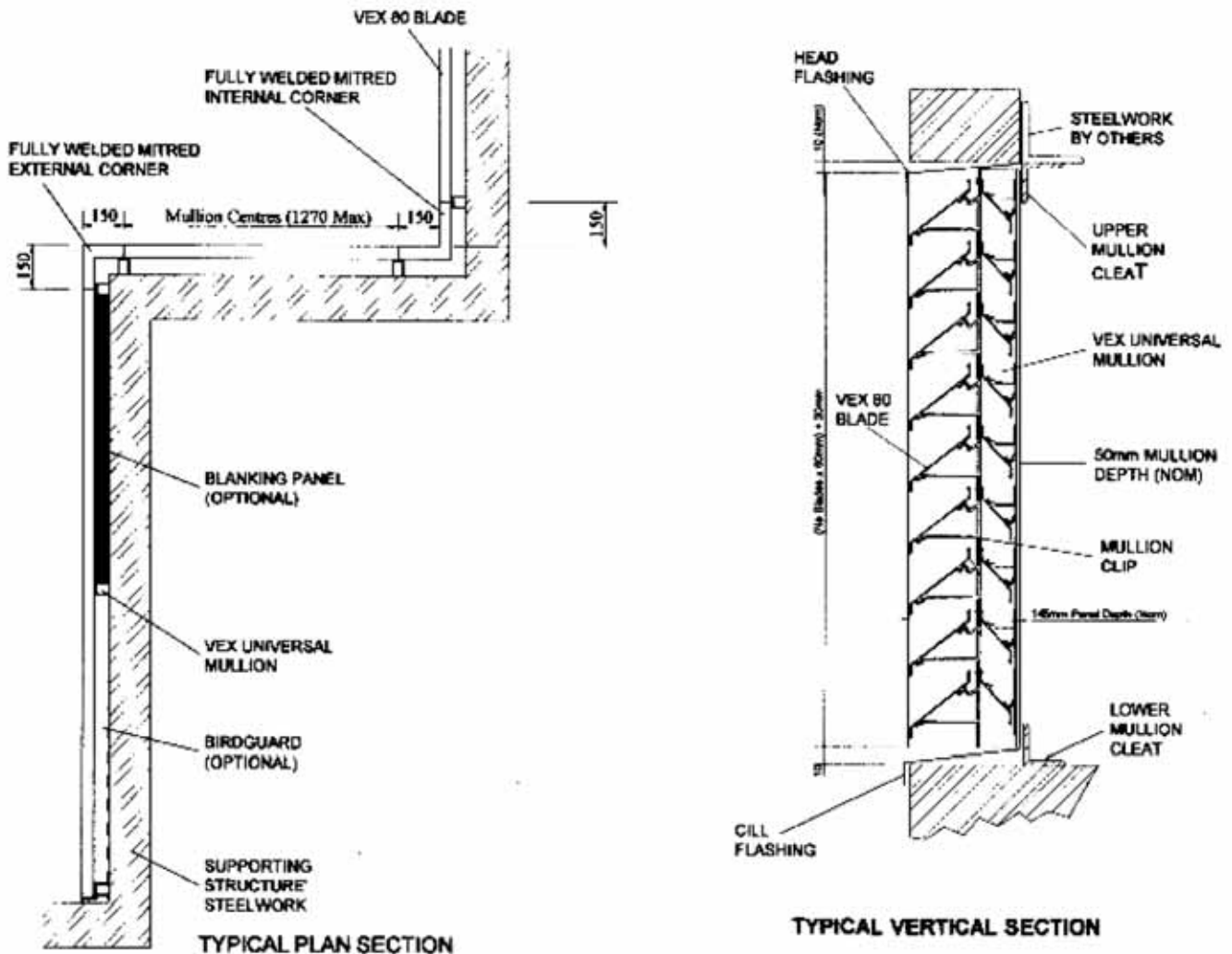
PERFORMANCE

Refer to 'Pressure Drop' and 'Weatherability' Performance Data Sheets

WEIGHT

15.10 Kg/m² (nom) face area when with standard Universal Mullion

STANDARD 80 CONTINUOUS DOUBLE PASS LOUVRE



GENERAL

Fully tested louvre system - Structurally / Weatherability / Aerodynamically

BLADES

Extruded aluminium HE9TF, vertical pitch 80mm with integral aluminium clip system. Site assembled double pass configuration

MULLIONS

Mullions can either be constructed from extruded aluminium (HE9TF) or press-formed 2mm thick aluminium sheet metal. Factory fitted with durable aluminium "snap on" clips

FLASHINGS

Flashings are constructed from aluminium sheet 1.5mm / 2.0mm / 3.0mm thick

BIRDCUARD

Expanded aluminium mesh (flattened) supplied in sheets with fixings for site installation

INSECT MESH

Fine woven aluminium mesh supplied in rolls with fixings for site installation

BLANKING PANELS

Aluminium sheet 1.0mm / 1.5mm / 2.0mm thick. Composite insulated panels available to suit specific thermal requirements

CORNERS

Internal / External corner blades fully welded or cleated to suit corner angle

CLEATS

Standard range of fixing cleats supplied to suit individual installations

SITE FIXINGS

Fixings can be supplied to suit individual installations if required

STEELWORK

Secondary steelwork systems are available if required, designed to suit individual applications

FINISH

Options - Mill finished aluminium - Polyester powder coated to a comprehensive range of colours - Anodised AA5 / AA25 Natural / Coloured

FREE AREA

48% geometric free area through the blades

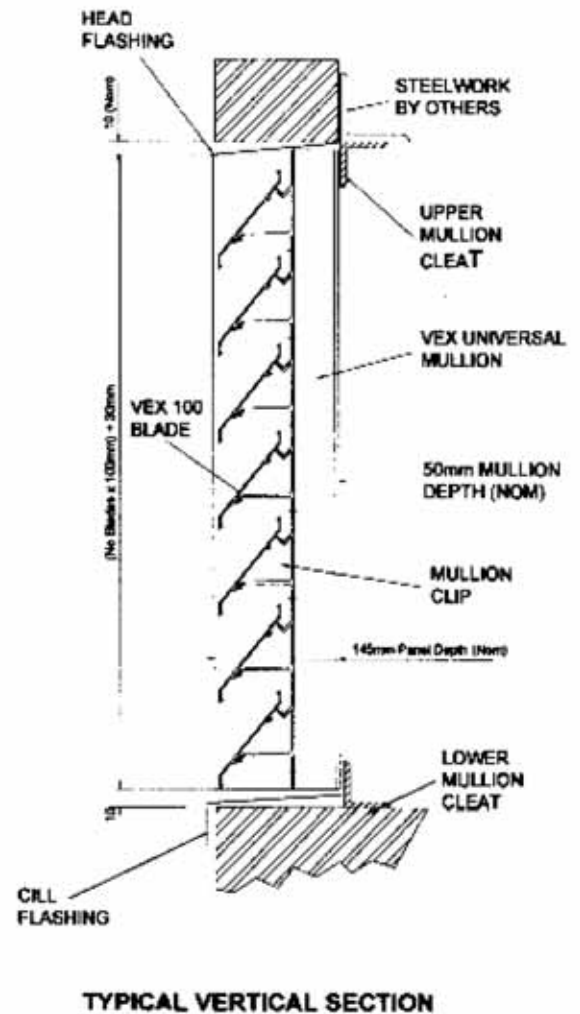
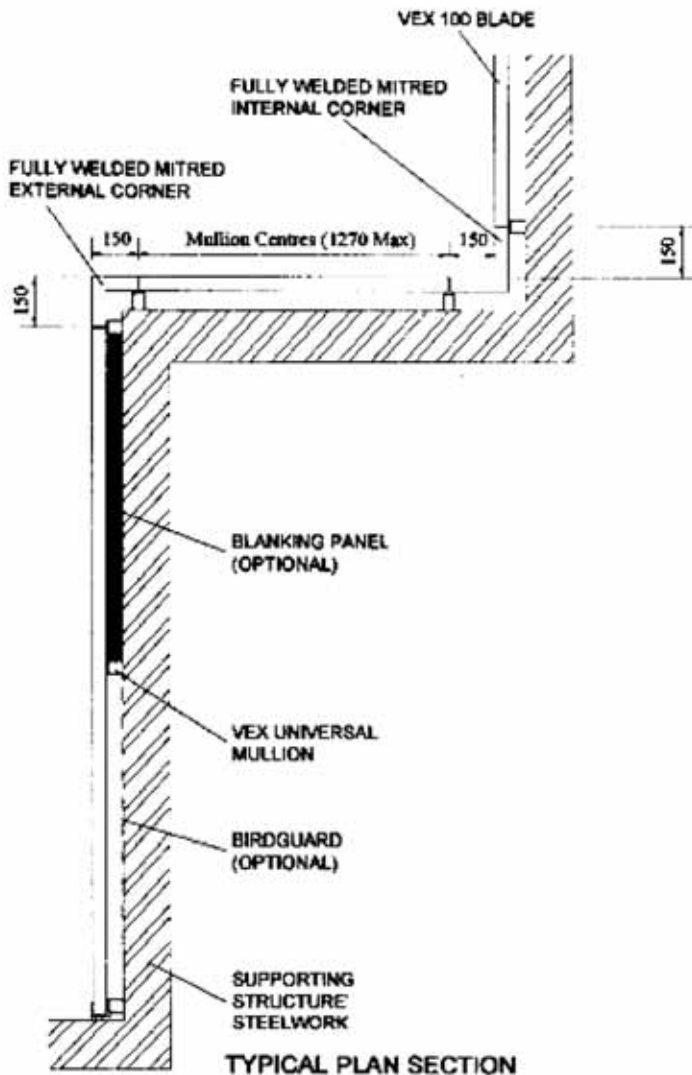
PERFORMANCE

Refer to 'Pressure Drop' and 'Weatherability' Performance Data Sheets

WEIGHT

25.41 Kg/m² (nom) face area when with standard Universal Mullion

STANDARD 100 CONTINUOUS LOUVRE



GENERAL

Fully tested louvre system - Structurally / Weatherability / Aerodynamically

BLADES

Extruded aluminium HE9TF vertical pitch - 100mm with integral aluminium clip system

MULLIONS

Mullions can either be constructed from extruded aluminium (HE9TF) or press-formed 2mm thick aluminium sheet metal. Factory fitted with durable aluminium "snap on" clips

FLASHINGS

Flashings are constructed from aluminium sheet 1.5mm / 2.0mm / 3.0mm thick

BIRDCUARD

Expanded aluminium mesh (flattened) supplied in sheets with fixings for site installation

INSECT MESH

Fine woven aluminium mesh supplied in rolls with fixings for site installation

BLANKING PANELS

Aluminium sheet 1.0mm / 1.5mm / 2.0mm thick. Composite insulated panels available to suit specific thermal requirements

CORNERS

Internal / External corner blades fully welded or cleated to suit corner angle

CLEATS

Standard range of fixing cleats supplied to suit individual installations

SITE FIXINGS

Fixings can be supplied to suit individual installations if required

STEELWORK

Secondary steelwork systems are available if required, designed to suit individual applications

FINISH

Options - Mill finished aluminium - Polyester powder coated to a comprehensive range of colours - Anodised AA5 / AA25 Natural / Coloured

FREE AREA

48% geometric free area through the blades

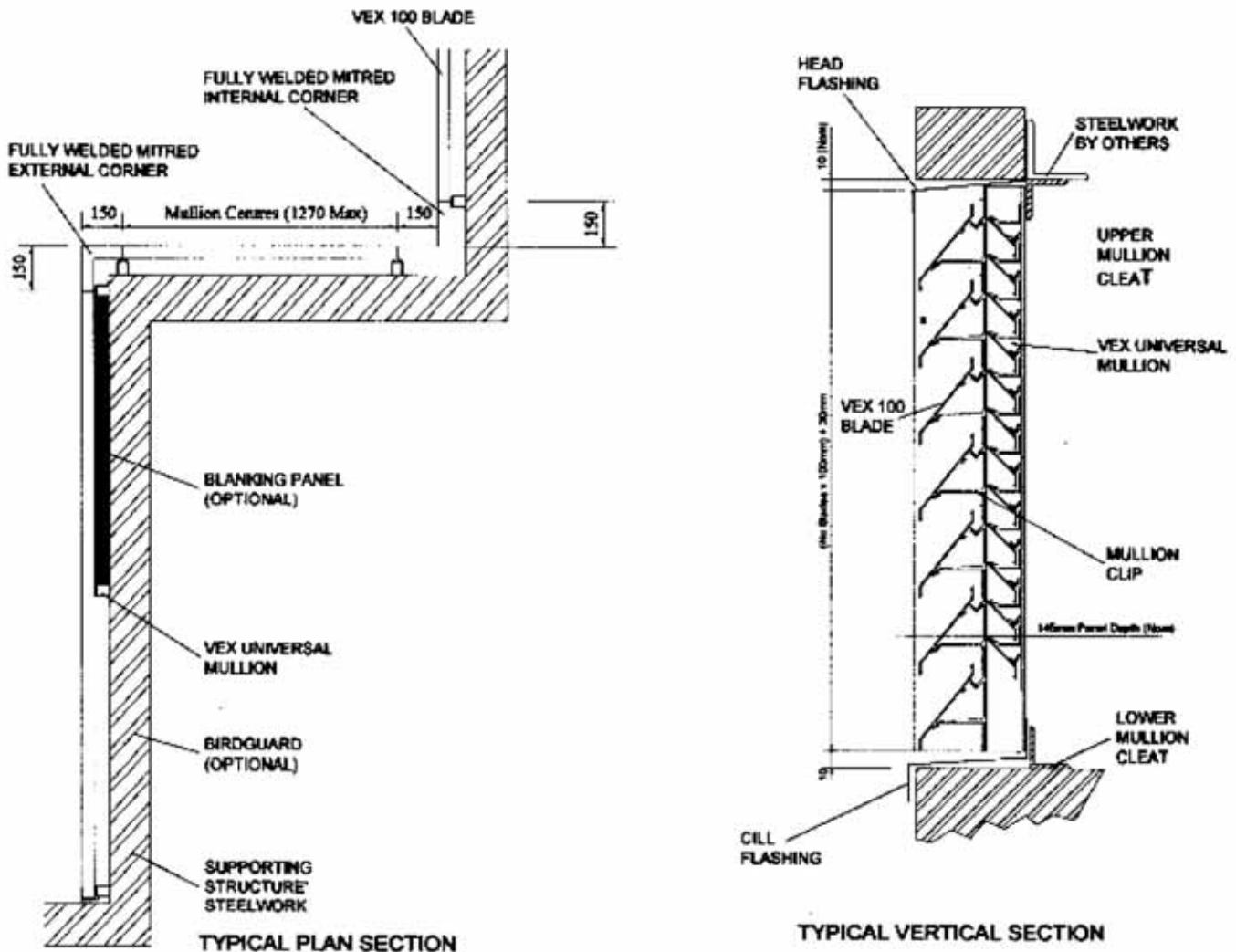
PERFORMANCE

Refer to 'Pressure Drop' and 'Weatherability' Performance Data Sheets

WEIGHT

12.00 Kg/m² (nom) face area when with standard Universal Mullion

STANDARD 100 CONTINUOUS DOUBLE PASS LOUVRE



GENERAL

Fully tested louvre system - Structurally / Weatherability / Aerodynamically

BLADES

Extruded aluminium HE9TF vertical pitch -100mm with integral aluminium clip system. Site assembled double pass configuration

MULLIONS

Mullions can either be constructed from extruded aluminium (HE9TF) or press-formed 2mm thick aluminium sheet metal. Factory fitted with durable aluminium "snap on" clips

FLASHINGS

Flashings are constructed from aluminium sheet 1.5mm / 2.0mm / 3.0mm thick

BIRDCUARD

Expanded aluminium mesh (flattened) supplied in sheets with fixings for site installation

INSECT MESH

Fine woven aluminium mesh supplied in rolls with fixings for site installation

BLANKING PANELS

Aluminium sheet 1.0mm / 1.5mm / 2.0mm thick. Composite insulated panels available to suit specific thermal requirements

CORNERS

Internal / External corner blades fully welded or cleated to suit corner angle

CLEATS

Standard range of fixing cleats supplied to suit individual installations

SITE FIXINGS

Fixings can be supplied to suit individual installations if required

STEELWORK

Secondary steelwork systems are available if required, designed to suit individual applications

FINISH

Options - Mill finished aluminium - Polyester powder coated to a comprehensive range of colours - Anodised AA5 / AA25 Natural / Coloured

FREE AREA

48% geometric free area through the blades

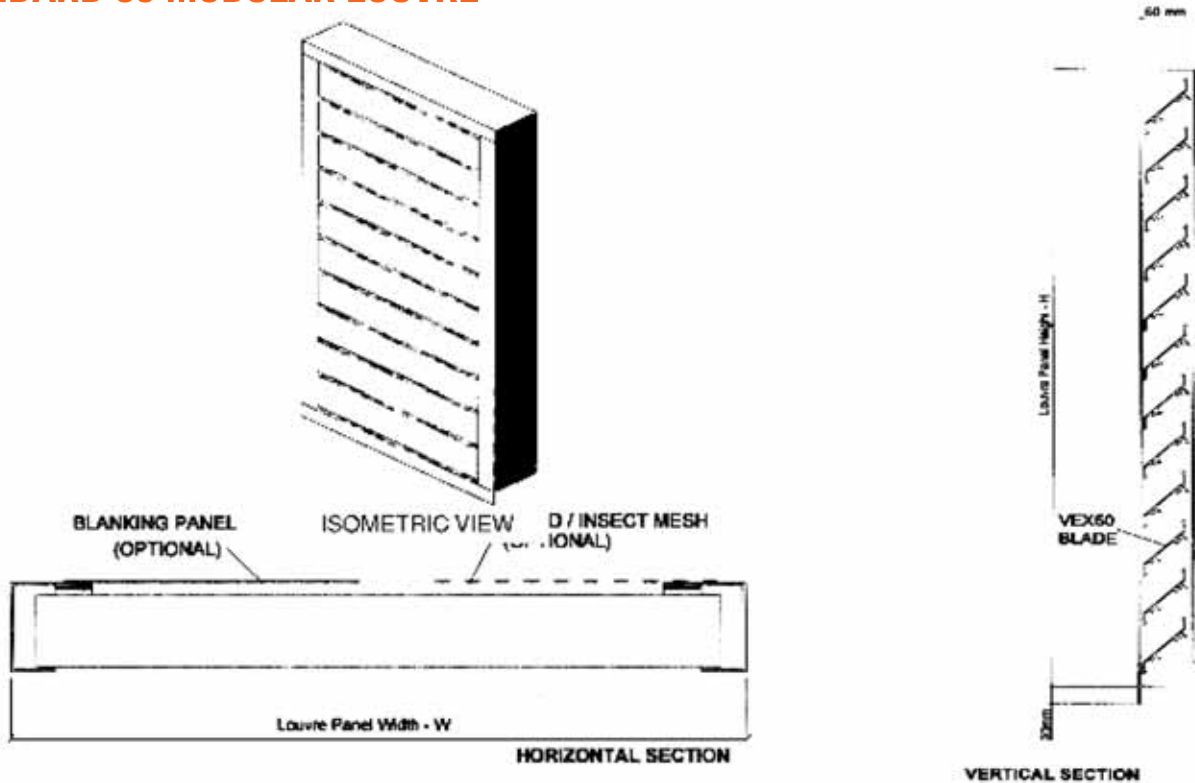
PERFORMANCE

Refer to 'Pressure Drop' and 'Weatherability' Performance Data Sheets

WEIGHT

23.50 Kg/m² (nom) face area when with standard Universal Mullion

STANDARD 60 MODULAR LOUVRE



Dimensional Data		
No of Blades	Module Height (mm)	Module Max Width (mm)
6	395	3000
7	455	3000
8	515	3000
9	575	3000
10	635	3000
11	695	3000
12	755	3000
13	815	3000
14	875	3000
15	935	3000
16	995	3000
17	1055	3000
18	1115	3000
19	1175	2500
20	1235	2500
21	1295	2500
22	1355	2500
23	1415	2500
24	1475	2500
25	1535	2500
26	1595	2500
27	1655	2500
28	1715	2500
29-	1775-	1250
49 max	2975	1250

GENERAL

Fully tested louvre system - Structurally / Weatherability / Aerodynamically

BLADES

Extruded aluminium HE9TF vertical pitch - 60mm with integral aluminium clip / concealed fixing system

FRAMES

Constructed from extruded aluminium (HE9TF) or press-formed 1.5mm / 2.0mm / 3.0mm thick aluminium sheet metal

FLASHINGS

Vex Modular Louvres are designed to fit into fully prepared openings. If required, flashings are constructed from aluminium sheet 1.5mm / 2.0mm / 3.0mm thick

BIRDCUARD

Expanded aluminium mesh (flattened) factory fitted to louvre panels (optional)

INSECT MESH

Fine woven aluminium mesh factory fitted to louvre panels (optional)

BLANKING PANELS

Aluminium sheet 1.0mm / 1.5mm / 2.0mm thick (optional). Composite insulated panels available to suit specific thermal requirements (optional)

CLEATS

Standard range of fixing cleats supplied to suit individual installations (optional)

SITE FIXINGS

Fixings can be supplied to suit individual installations if required

STEELWORK

Secondary steelwork systems are available if required, designed to suit individual applications

FINISH

Options - Mill finished aluminium - Polyester powder coated to a comprehensive range of colours Anodised AA5 / AA25 Natural / Coloured

FREE AREA

48% geometric free area through the blades

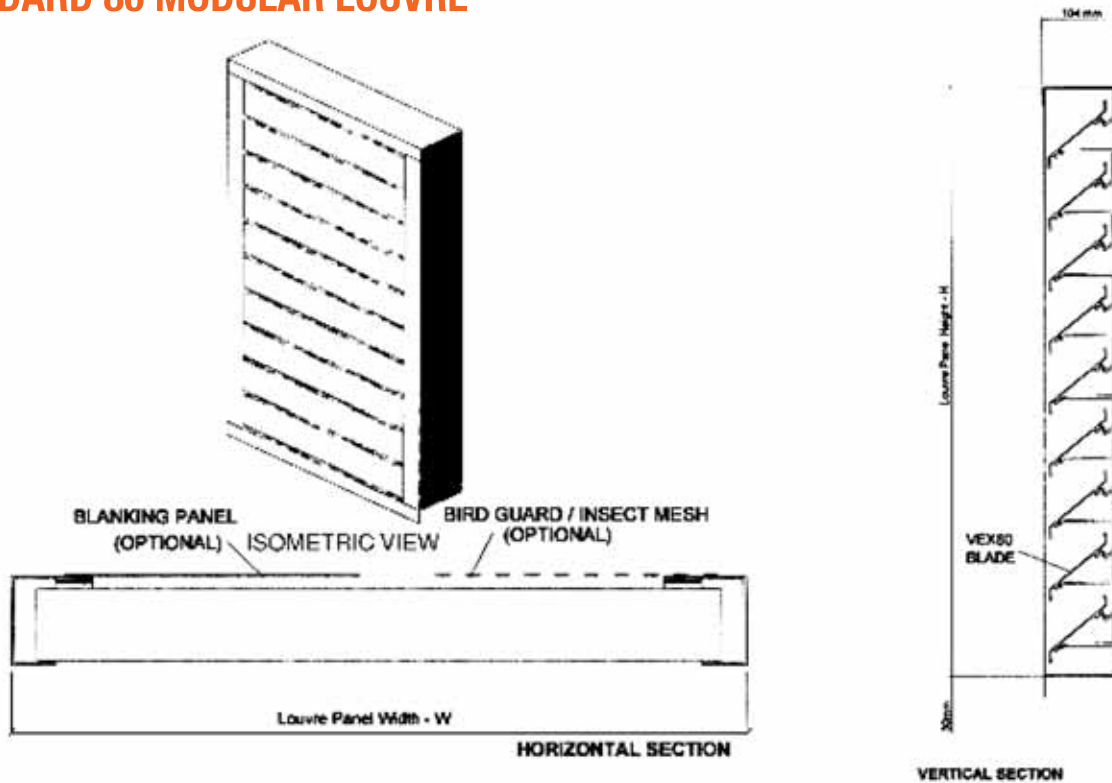
PERFORMANCE

Refer to 'Pressure Drop' and 'Weatherability' Performance Data Sheets

WEIGHT

11.62 Kg/m² (nom) face area

STANDARD 80 MODULAR LOUVRE



Dimensional Data		
No of Blades	Module Height (mm)	Module Max Width (mm)
6	520	3000
7	600	3000
8	680	3000
9	760	3000
10	840	3000
11	920	3000
12	1000	3000
13	1080	3000
14	1160	3000
15	1240	2500
16	1320	2500
17	1400	2500
18	1480	2500
19	1560	2500
20	1640	2500
21	1720	2500
22	1800	2500
23	1880	2500
24	1960	1250
25	2040	1250
26	2120	1250
27	2200	1250
28	2280	1250
29+	2360	1250
36 max	2920	1250

GENERAL

Fully tested louvre system - Structurally / Weatherability / Aerodynamically

BLADES

Extruded aluminium HE9TF vertical pitch - 80mm with integral aluminium clip / concealed fixing system

FRAMES

Constructed from extruded aluminium (HE9TF) or press-formed 1.5mm / 2.0mm / 3.0mm thick aluminium sheet metal

FLASHINGS

Vex Modular Louvres are designed to fit into fully prepared openings. If required, flashings are constructed from aluminium sheet 1.5mm / 2.0mm / 3.0mm thick

BIRDCUARD

Expanded aluminium mesh (flattened) factory fitted to louvre panels (optional)

INSECT MESH

Fine woven aluminium mesh factory fitted to louvre panels (optional)

BLANKING PANELS

Aluminium sheet 1.0mm / 1.5mm / 2.0mm thick (optional). Composite insulated panels available to suit specific thermal requirements (optional)

CLEATS

Standard range of fixing cleats supplied to suit individual installations (optional)

SITE FIXINGS

Fixings can be supplied to suit individual installations if required

STEELWORK

Secondary steelwork systems are available if required, designed to suit individual applications

FINISH

Options - Mill finished aluminium - Polyester powder coated to a comprehensive range of colours - Anodised AA5 / AA25 Natural / Coloured

FREE AREA

48% geometric free area through the blades

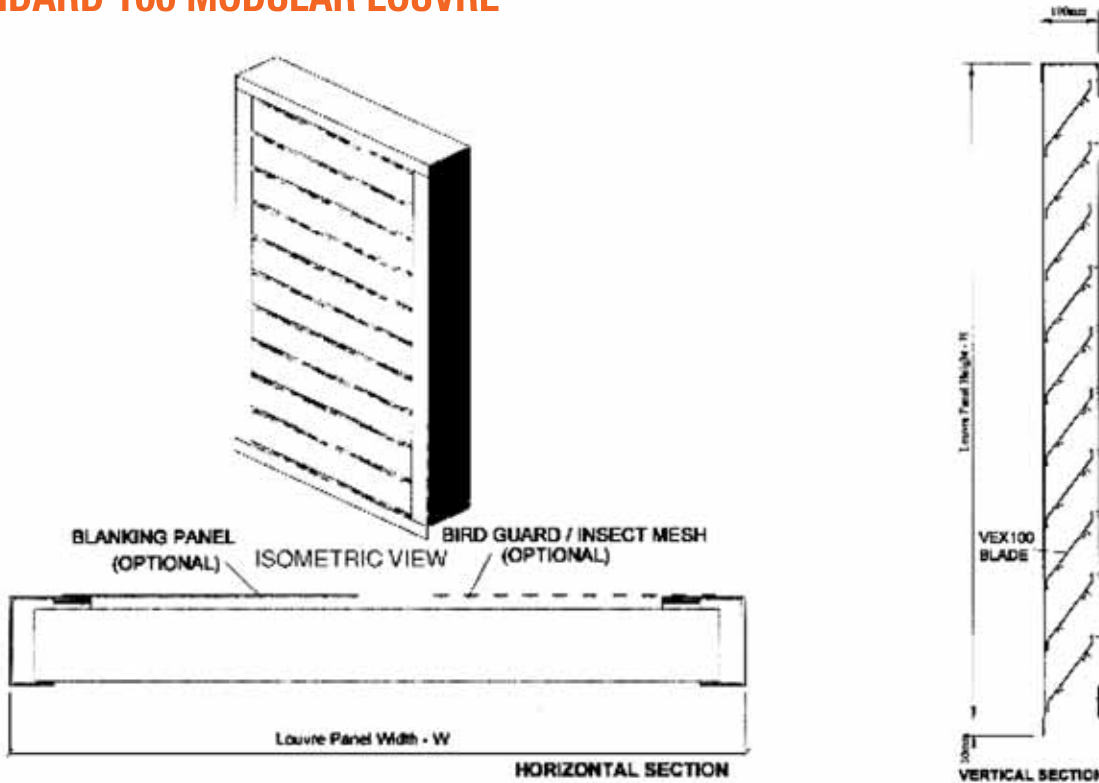
PERFORMANCE

Refer to 'Pressure Drop' and 'Weatherability' Performance Data Sheets

WEIGHT

11.62 Kg/m² (nom) face area

STANDARD 100 MODULAR LOUVRE



Dimensional Data		
No of Blades	Module Height (mm)	Module Max Width (mm)
5	550	3000
6	650	3000
7	750	3000
8	850	3000
9	950	3000
10	1050	3000
11	1150	3000
12	1250	3000
13	1350	3000
14	1450	2500
15	1550	2500
16	1650	2500
17	1750	2500
18	1850	2500
19	1950	2500
20	2050	2500
21	2150	2500
22	2250	2500
23	2350	1250
24	2450	1250
25	2550	1250
26	2650	1250
27	2750	1250
28	2850	1250
29	2950	1250

GENERAL

Fully tested louvre system - Structurally / Weatherability / Aerodynamically

BLADES

Extruded aluminium HE9TF vertical pitch - 100mm with integral aluminium clip / concealed fixing system

FRAMES

Constructed from extruded aluminium (HE9TF) or pressformed 1.5mm / 2.0mm / 3.0mm thick aluminium sheet metal

FLASHINGS

Vex Modular Louvres are designed to fit into fully prepared openings. If required, flashings are constructed from aluminium sheet 1.5mm / 2.0mm / 3.0mm thick

BIRDCUARD

Expanded aluminium mesh (flattened) factory fitted to louvre panels (optional)

INSECT MESH

Fine woven aluminium mesh factory fitted to louvre panels (optional)

BLANKING PANELS

Aluminium sheet 1.0mm / 1.5mm / 2.0mm thick (optional). Composite insulated panels available to suit specific thermal requirements (optional)

CLEATS

Standard range of fixing cleats supplied to suit individual installations (optional)

SITE FIXINGS

Fixings can be supplied to suit individual installations if required

STEELWORK

Secondary steelwork systems are available if required, designed to suit individual applications

FINISH

Options - Mill finished aluminium - Polyester powder coated to a comprehensive range of colours - Anodised AA5 / AA25 Natural / Coloured

FREE AREA

48% geometric free area through the blades

PERFORMANCE

Refer to 'Pressure Drop' and 'Weatherability' Performance Data Sheets

WEIGHT

13.25 Kg/m² (nom)

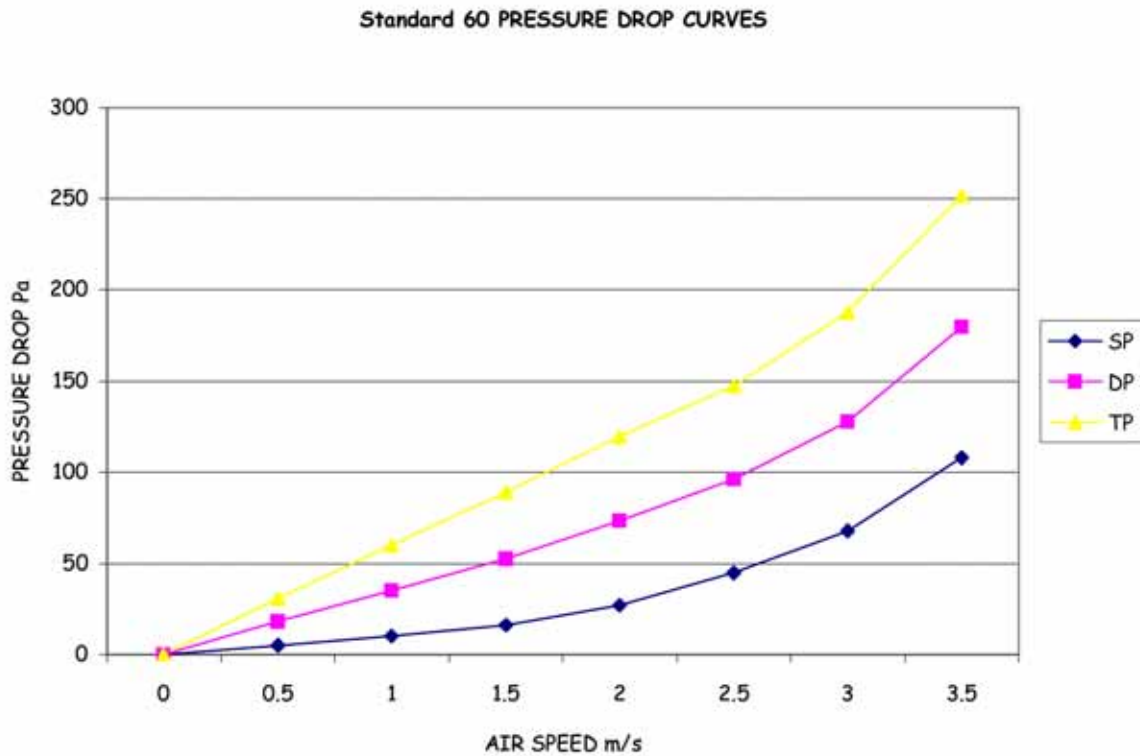
AERODYNAMIC PERFORMANCE

The 'STANDARD' Louvre system has been comprehensively tested. The testing data has been presented in System format. Other suppliers of louvres sometimes use performance data for the louvre blades only. This is misleading and can result in the incorrect selection if not used correctly. The development of these louvres systems was part of a major programme spanning over 30 years independently controlled in the USA and the UK by Loughborough Consultants, a specialist division of the University of Technology at Loughborough.

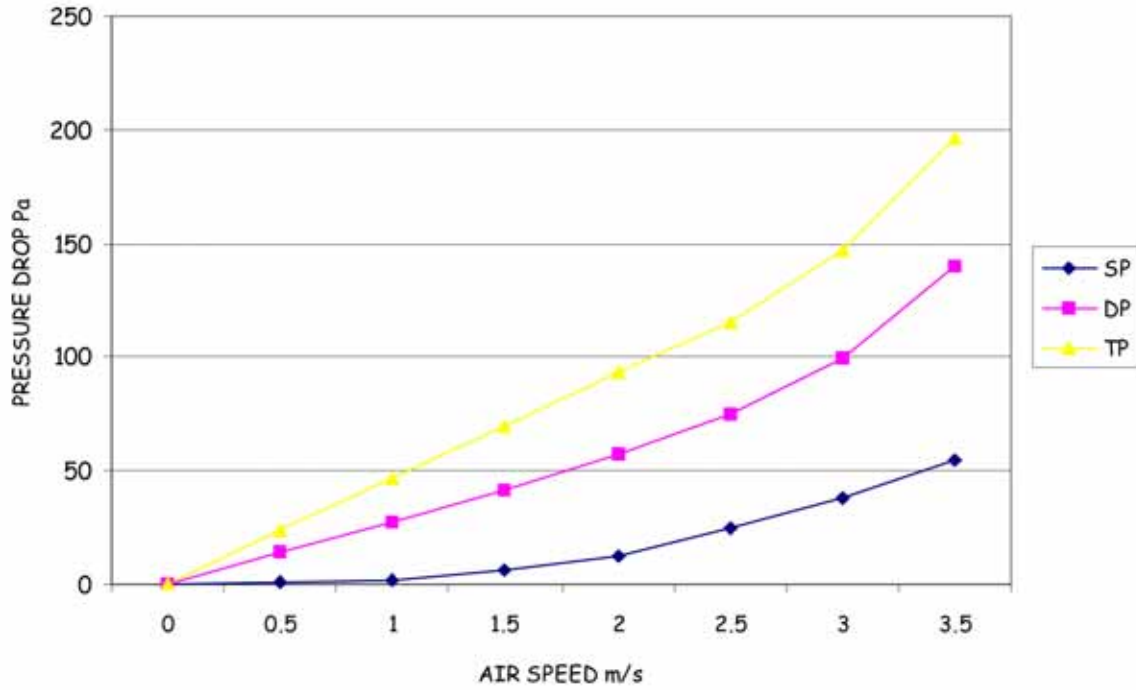
TEST PROCEDURE

Louvre modules were fitted into the EPTC wind tunnel calibrated wall. The airflow was increased and the pressure drop across the louvre was recorded using calibrated measuring equipment.

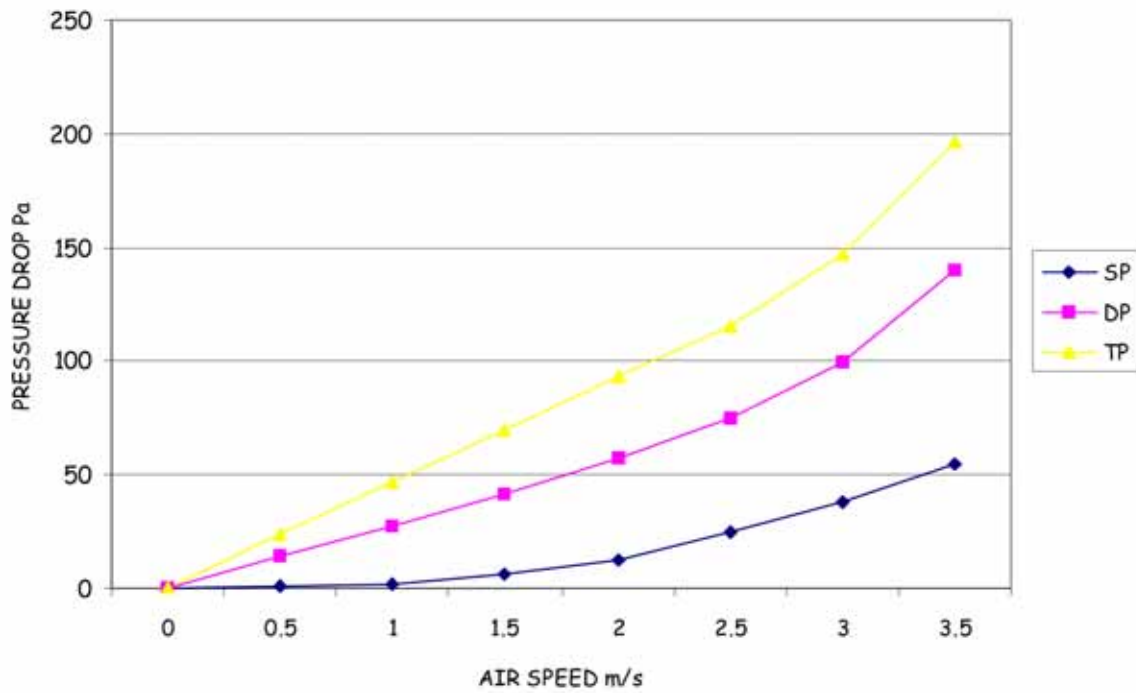
TEST RESULTS – GRAPHS



VEX80 PRESSURE DROP CURVES



VEX80 PRESSURE DROP CURVES



WEATHER TEST RESULTS - GRAPHS

Weather Test Procedure

Test Procedure – EPTC / HEVAC

Zefyr Standard Test Criteria:

Method of test for water rejection and louvres subject to simulated rainfall – DT208/93

Test to extreme conditions

No wind

No ventilation

No wind

Ventilation 5 m/s

Wind speed and ventilation combined - 8 m/s

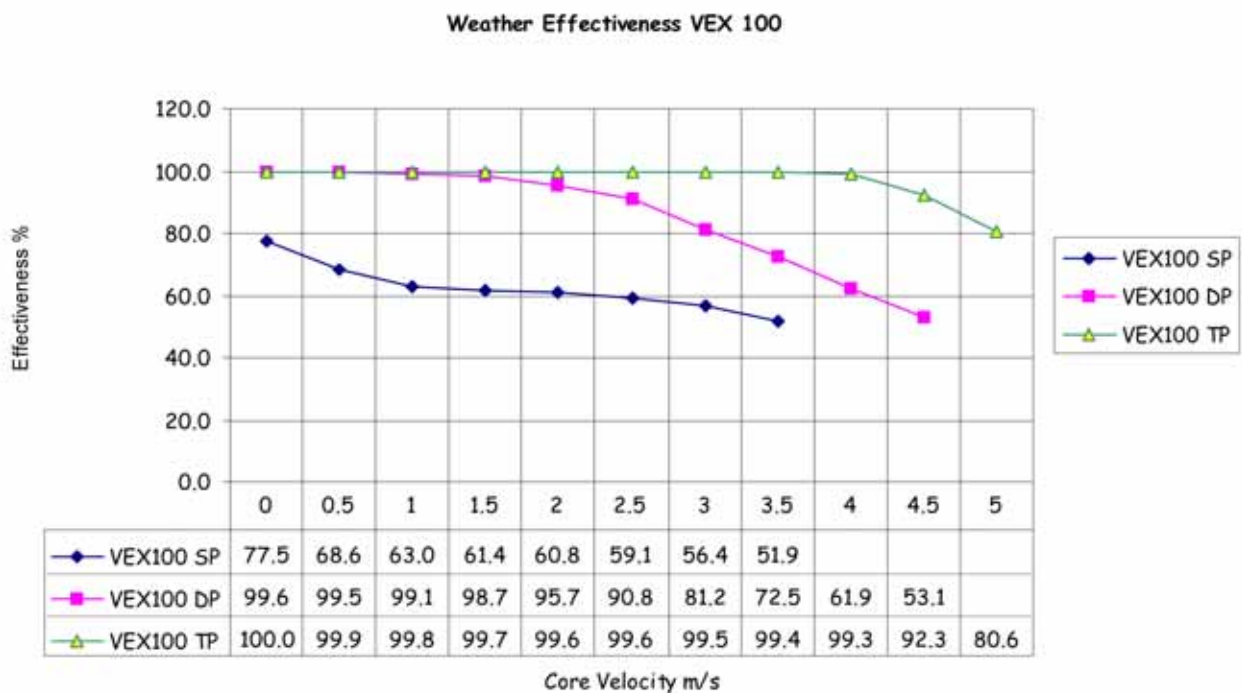
Wind speed - 13m/s

Constant rainfall at 75 mm/hr

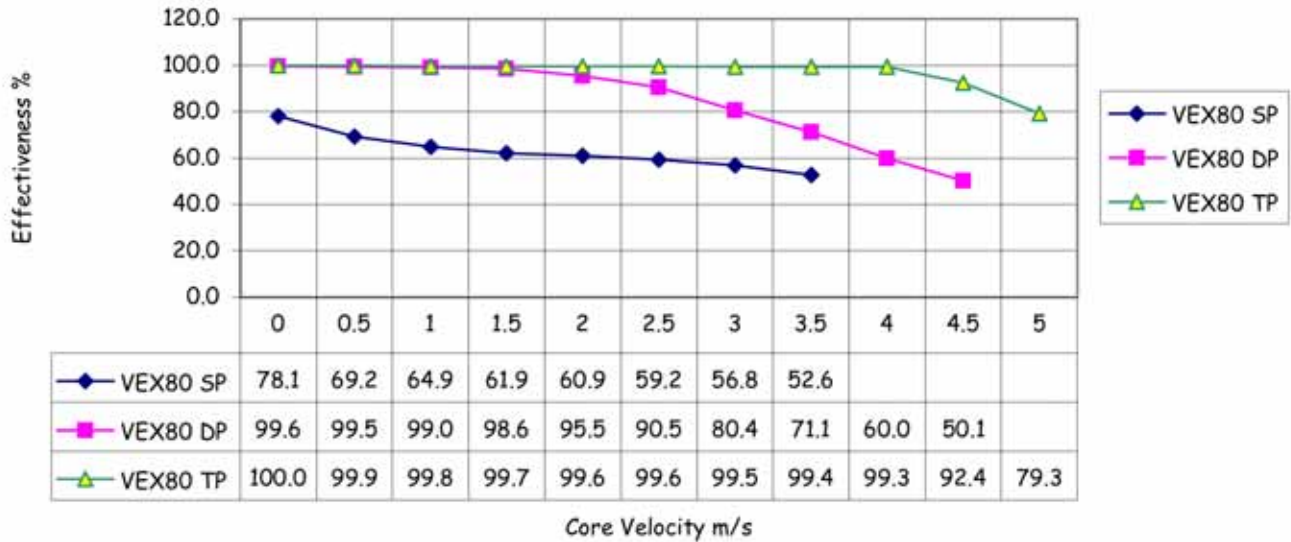
Note – the test incorporates the performance requirements required by the HEVAC standard. Note the HEVAC standard only requires a through ventilation rate of 3.5m/s, compared to the RV standard of 5.0m/s

The attached graph summarises the results under the extreme weather conditions for each of the louvre options

WEATHER TEST RESULTS - GRAPHS



Weather Effectiveness VEX 80



Weather Effectiveness VEX60

