



ARCHITECTS LOVE IT FOR ITS LOOKS AND PERFORMANCE:

They can use the Coltlite ventilator to great effect in designing stunning looking buildings with the knowledge that it will perform exceptionally well as a natural ventilator. It is also highly adaptable: they can have the ventilator configured to an exact millimeter width or height.

CONSULTANTS LOVE IT FOR ITS VERSATILITY:

Besides using it as a façade element, they can use it as a smoke/air damper within a shaft system.

Coltlite is well suited to being both a smoke ventilator and a natural / day-to-day ventilator.

BUILDING MANAGERSLOVE IT FOR ITS FRUGALITY:

Easy to maintain, Coltlite delivers an exceptional thermal and acoustic performance. Low operating costs plus high energy efficiency – what more could they ask for?

And now, with the new and improved Coltlite CLT, CLN and CLS, natural ventilation has got even better!

Glass facades with Colt's new Coltlite will look even better, with bigger glazed surfaces now that it can be wider, accommodate heavier louvres, and now that frame face widths (at 40mm) are narrower then before.

The improvements aren't limited to its good looks – its aerodynamic and acoustic performance is better than ever, and it gets top marks in air permeability and resistance to rain.

Its reliability has been proven: all types of Coltlite have been exhaustively tested and certified to EN 12101-2: 2003 as dual purpose ventilators in accredited third party test laboratories and are CE marked. The ventilator is CE marked according to EN 14351-1 and has been externally tested, which guarantees its performance as a façade element.

And there is more! Maintenance has never been so simple, now that the Coltlite comes with removable covers that provide easy access to the mechanisms.

As if that isn't enough, Coltlite can be installed with a drive motor operated directly with a 0-10 volt control signal – there's no need for additional components.

Good looks, performance, economy: you couldn't ask for more from a natural ventilator!

Image.

Bilston Leisure Centre, Wolverhampton.

Туре:

CLT glazed

HIGH PERFORMANCE

Coltlite has high aerodynamic, acoustic and thermal performance, and has a high resistance to the effects of fire. Full performance data is given later on in this leaflet.

TESTED AND CERTIFIED

PERFORMANCE

Coltlite has been exhaustively tested and certified to EN 12101-2: 2003 as a dual purpose ventilator in accredited third party test laboratories and is CE marked. The ventilator is CE marked according to EN 14351-1 which guarantees its performance as a façade element.

HIGH PERFORMANCE

IN FIRE

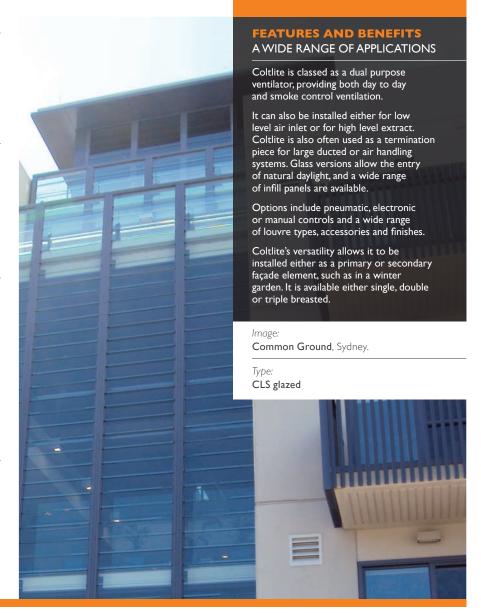
One of the architect's main design considerations is to make sure that any smoke emitted by a fire is evacuated from the building in a controlled fashion. Special arrangements need to be considered, in particular for escape routes such as in stairwells. Coltlite is very suitable for protecting escape routes since it has a high aerodynamic efficiency, opens quickly, has large openings and does not get in the way of people trying to leave the building.

EASY TO INSTALL

AND MAINTAIN

Coltlite is delivered fully assembled to site into a structural opening or curtain walling. It must be installed in the vertical. It has a wide range of base profiles to suit most sheeting or glazing applications.

Easy maintenance afforded by allowing access to mechanisms via removable panels.





DURABLE

The frame is manufactured from tough, corrosion resistant aluminium alloy, with stainless steel fixings.

SAFE IN OPERATION

Coltlite has an optional anti-finger trapping control system.

OWN MANUFACTURE

Coltlite CL is manufactured under strict quality control by Colt. Coltlite is manufactured under the ISO 9000 quality standard. Each unit is given a functional test before despatch.

Image:

Louisiana Avenue, USA.

Type: CLT

AESTHETIC DESIGN

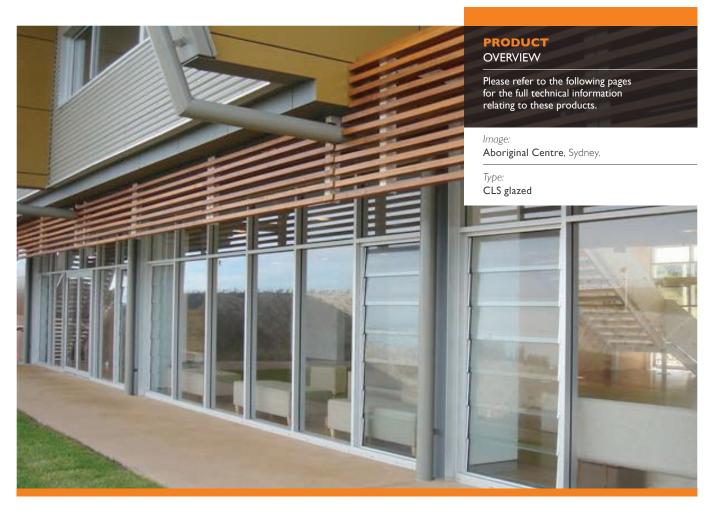
Coltlite uses narrow framework and projects only a small distance into the surrounding space. Narrower face frames also increase the geometrical area for the same size of opening and therefore the aerodynamic efficiency.

Motors can be hidden within the frame or are small in size. Our new Coltlite has a bigger ratio of glazed surface to profiles as it has smaller frame face widths.

DESIGN SERVICE

Colt provides a pre-order design service. Please contact Colt for more information relating to the application, specification, installation or servicing of Coltlite.







COLTLITE GLASS LOUVRED VENTILATOR

TYPE CLN

Non-thermally broken extruded aluminium outer frames, non-thermally broken louvre frames. Double glazed louvres with 28mm thick clear float glass. Overall frame depth 47mm, frame face width 40mm.

For high acoustic and thermal performance.



COLTLITE GLASS LOUVRED VENTILATOR

TYPE CLS

Non-thermally broken extruded aluminium outer frames. Frameless single glazed overlapping louvres with either 8mm, 10 mm or 12 mm thick float, toughened or laminated glass. Overall frame depth 47mm, frame face width 40mm.

For the highest aerodynamic performance where thermal insulation is not a key requirement, with stainless steel fixings.

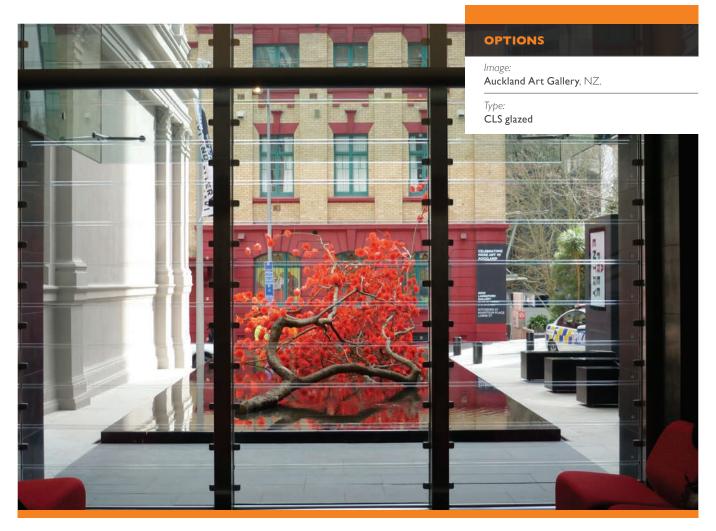


COLTLITE GLASS LOUVRED VENTILATOR

TYPE CLT

Thermally broken extruded aluminium outer frames and louvre frames. Double glazed louvres with 28mm thick clear toughened glass. Overall frame depth 47mm, frame face width 40mm.

For the highest acoustic and thermal performance.



LOUVRES

Glass louvres are manufactured as standard in single and double glazed options. There is the choice of glass with a thickness of between 4 - 8 mm for the double glazed systems, with an overall glass thickness of 28mm, and glass with a thickness of between 8, 10 and 12 mm for the CLS single glazed version.

Louvres can also be provided with insulated aluminium sections. For all versions except CLS, glazing seals comprise double weather strips with a nylon lip between, and the horizontal glass edges of the louvres are enclosed with aluminium sections which have two overlapping weather seals for excellent air tightness.

FRAMES

CLN has non-thermally broken outer and louvre frames. CLS has non-thermally broken outer frames and frameless glass louvres.

Both the outer and louvre frames of the CLT are thermally broken.

CONTROLS

Coltlite is available with pneumatic, manual, 230v ac or 24v dc electric controls for the potential to be connected to a building management system.

With the electric version, Coltlite moves noiselessly to any position, automatically stopping at the fully open and fully closed positions. Alternatively, blades can be stopped in any intermediate position throughout the duration of the open/close cycle. Coltlite has an optional anti-finger trapping facility.

MANUAL CONTROLS OPTION

Hand controls consist of a lever handle.

PAINT FINISHES

Coltlite is available anodized or polyester powder coated to a RAL colour. Thermally broken frames can be coated to different colours inside and out.

Special colours are also available on request.



Image:

The University of Otago, Dunedin.

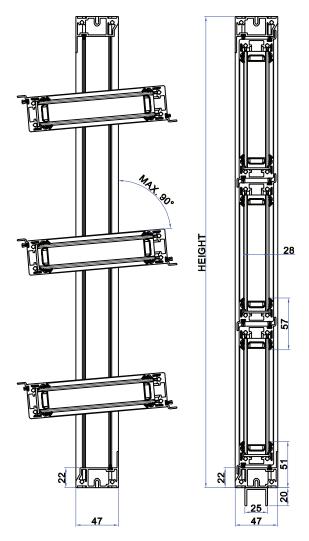
Туре:

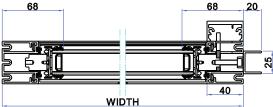
CLT glazed



SUMMARY TECHNICAL INFORMATION

COLTLITE CLN





NOTES

- *(1) Outer frame dimensions. For throat dimensions subtract 80mm.
- (1) Outer frame aimensions. For throat aimensions subtract our
 (2) Ventilators over a certain width and height are separated for ease of transportation and handling.
 (3) Maximum louvre weight 20 kg. Aspect ratio of louvre height to louvre length must be less than 1:10.

These data are indicative only.
The ventilator should be designed to resist the design wind loads.
Colt can guarantee the structural stability for a bank of ventilators with an area up to 6m² assuming a design wind load of 1500 Pa.
Above this, a structural engineering calculation will be required.

Units up to 15m high may be supplied to a special order subject to technical approval by Colt.

Non-thermally broken extruded aluminium outer frames, non-thermally broken louvre frames. Double glazed louvres with 28mm thick clear toughened glass.

300mm - 2000mm

300mm - 3000mm per ventilator

150mm - 350mm

Standard: centre pivoted. Other types on request.

Max. 90° (depends on the drive selected)

47mm

40mm

Insulated glazing (2 or 3 panes) or composite infill panels

28mm

4 mm float, 20 mm gap, 4 mm float

Manual, 24v dc or 230v ac electric or pneumatic

Class 4 - 0,97m3/hm2 or 0.19m3/hm at 50Pa

Class 5A - watertight up to 200 Pa

Depends on the width of the unit, the wind strength and louvre height.

Tested and certified unit

Up to max. 1.9 W/m²/K

Up to max. 0.58

Up to max. 36 dB

DESCRIPTION

VENT OVERALL WIDTH *Note (I)

VENT OVERALL HEIGHT *Note (2)

BLADE PITCH (OR LOUVRE HEIGHT) *Note (3)

LOUVRE PIVOTS

MAX. LOUVRE **OPENING ANGLE**

DEPTH OF FRAME

FACE FRAME WIDTH

INFILL FOR LOUVRE

THICKNESS OF GLASS

STANDARD GLASS

CONTROLS

AIR PERMEABILITY (EN 12207)

RESISTANCE TO WEATHER (EN 12208)

RESISTANCE TO WIND (I) (EN 12210)

SMOKEVENT (EN12101-2)

UVALUE (EN ISO 10077-1)

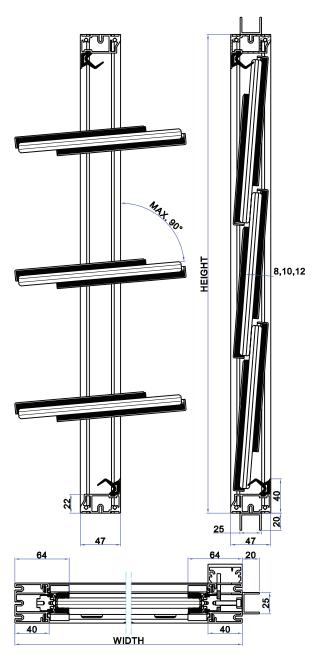
CV VALUE

SOUND INSULATION



SUMMARY TECHNICAL INFORMATION

COLTLITE CLS



DESCRIPTION

VENT OVERALL WIDTH *Note (I)

VENT OVERALL HEIGHT *Note (2)

BLADE PITCH (OR LOUVRE HEIGHT) *Note (3)

LOUVRE PIVOTS

MAX. LOUVRE **OPENING ANGLE**

DEPTH OF FRAME

FACE FRAME WIDTH

INFILL FOR LOUVRE

THICKNESS OF GLASS

GLASS TYPES

CONTROLS

AIR PERMEABILITY (EN 12207)

RESISTANCE TO WEATHER (EN 12208)

RESISTANCE TO WIND (I) (EN 12210)

SMOKEVENT (EN 12101-2)

UVALUE (EN ISO 10077-1)

CV VALUE

SOUND INSULATION

Non-thermally broken extruded aluminium outer frames. Frameless single glazed overlapping louvres with either 8mm, 10 mm or 12 mm thick float, toughened or laminated glass.

300mm - 1800mm

300mm - 3000mm per ventilator

150mm - 390mm

Standard: centre pivoted. Other types on request.

Max. 90° (depends on the drive selected)

47mm

40mm

Single glazing

8, 10 or 12mm

Toughened, Heat toughened or laminated (from float, toughened - laminated or toughened)

Manual, 24v dc or 230v ac electric or pneumatic

Class 1 - 19,5m3/hm2 or 3,9m³/hm at 50Pa

Class 2A - watertight up to 100 Pa

Depends on the width of the unit, the wind strength and louvre height.

Tested and certified unit

Up to max. 5.8 W/m²/K

Up to max. 0.65

Up to max. 27 dB

NOTES

*(1) Outer frame dimensions. For throat dimensions subtract 80mm.

(1) Outer frame aimensions. For throat aimensions subtract our
 (2) Ventilators over a certain width and height are separated for ease of transportation and handling.
 (3) Maximum louvre weight 20 kg. Aspect ratio of louvre height to louvre length must be less than 1:10.

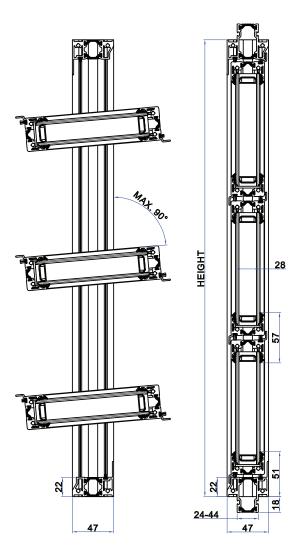
These data are indicative only.
The ventilator should be designed to resist the design wind loads.
Colt can guarantee the structural stability for a bank of ventilators with an area up to 6m² assuming a design wind load of 1500 Pa.
Above this, a structural engineering calculation will be required.

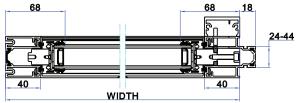
Units up to 15m high may be supplied to a special order subject to technical approval by Colt .



SUMMARY TECHNICAL INFORMATION

COLTLITE CLT





NOTES

- *(1) Outer frame dimensions. For throat dimensions subtract 80mm.
- (1) Outer frame aimensions. For throat aimensions subtract our
 (2) Ventilators over a certain width and height are separated for ease of transportation and handling.
 (3) Maximum louvre weight 20 kg. Aspect ratio of louvre height to louvre length must be less than 1:10.

These data are indicative only.
The ventilator should be designed to resist the design wind loads.
Colt can guarantee the structural stability for a bank of ventilators with an area up to 6m² assuming a design wind load of 1500 Pa. Above this, a structural engineering calculation will be required.

Units up to 15m high may be supplied to a special order subject to technical approval by Colt .

DESCRIPTION Thermally broken extruded aluminium outer frames and louvre frames. Double glazed louvres with 28mm thick

VENT OVERALL WIDTH *Note (I)

VENT OVERALL HEIGHT *Note (2)

BLADE PITCH (OR LOUVRE HEIGHT) *Note (3)

LOUVRE PIVOTS

MAX. LOUVRE **OPENING ANGLE**

DEPTH OF FRAME

FACE FRAME WIDTH

INFILL FOR LOUVRE

THICKNESS OF GLASS

STANDARD GLASS

CONTROLS

AIR PERMEABILITY (EN 12207):

RESISTANCE TO WEATHER (EN 12208)

RESISTANCE TO WIND (I) (EN 12210)

SMOKEVENT (EN12101-2)

UVALUE (EN ISO 10077-1)

CV VALUE (MAXIMUM)

SOUND INSULATION

clear toughened glass.

300mm - 2000mm

300mm - 3000mm per ventilator

150mm - 350mm

Standard: centre pivoted. Other types on request.

Max. 90° (depends on the drive selected)

47mm

40mm

Insulated glazing (2- or 3 panes) or composite infill panels

28mm

4 mm float, 20 mm gap, 4 mm float

Manual, 24v dc or 230v ac electric or pneumatic

Class 3 - 1.89m3/hm2 or 0.37m³/hm at 50Pa

Class 4A - watertight up to 150 Pa

Depends on the width of the unit, the wind strength and louvre height.

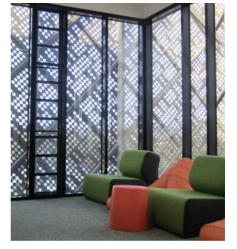
Tested and certified unit

Up to max. 1.5 W/m²/K

Up to max. 0.58

Up to max. 41 dB







Waurn Ponds Library, Geelong.

Туре:

CLT glazed

Image:

Southmead Hospital, Bristol.

Туре:

CLT glazed

Nottingham University, Gracie Building.

Туре:

CLT glazed





Image:

Vendespace, France.

Type: CLT insulated



Image:

 $Internos\ Hoogezand,\ Holland.$

Туре:

CLT glazed



Image:

Möbel Markt Sconto, Germany.

Туре:

CLT insulated









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