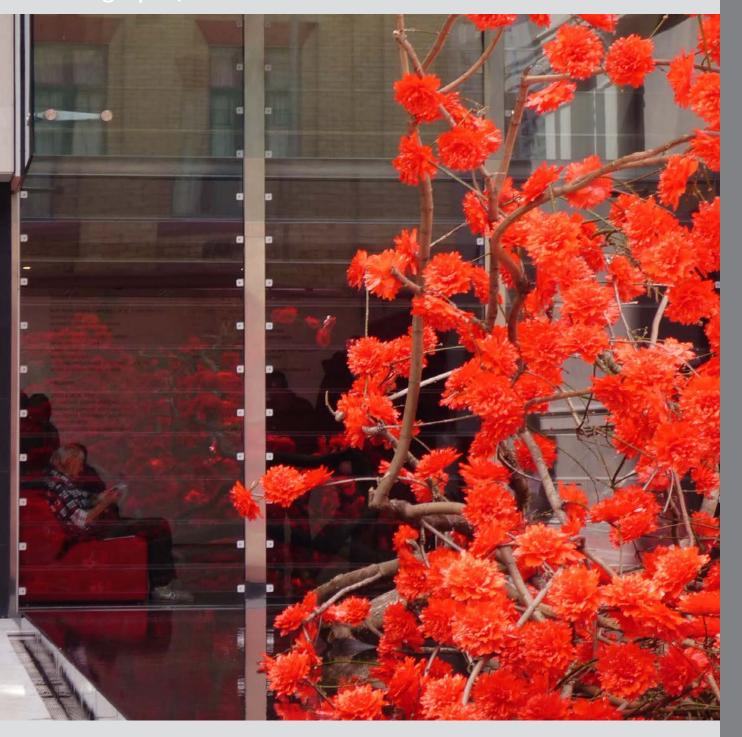
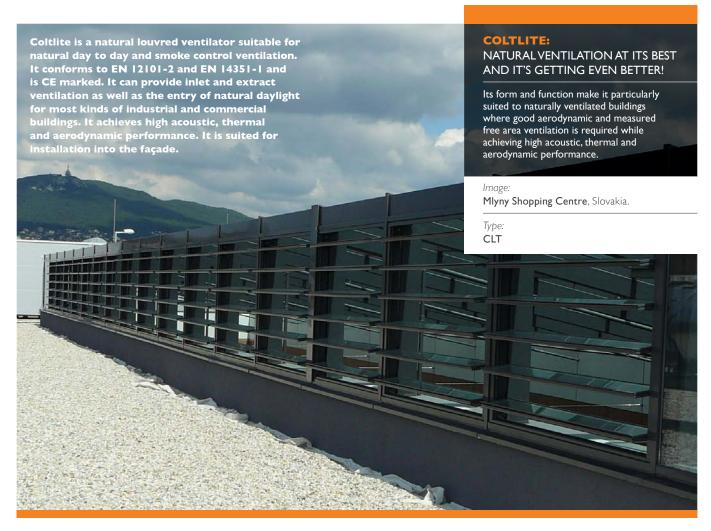


Coltlite CL High performance natural louvred ventilator









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 millimetre 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, CLS and CLS 45, 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 than 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 except the CLS 45 version 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. All ventilator variants have been externally tested to EN 14351-1 and are CE marked, which guarantees their performance as façade elements.

And there is more! Maintenance has never been so simple, now that 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.

Type: **CLT**

Front page: Auckland Art Gallery, type CLS 45

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 (except CLS 45). All versions of the ventilator are tested and certified according to EN 14351-1 which guarantees their performance as a façade elements.

HIGH PERFORMANCE

IN FIRE

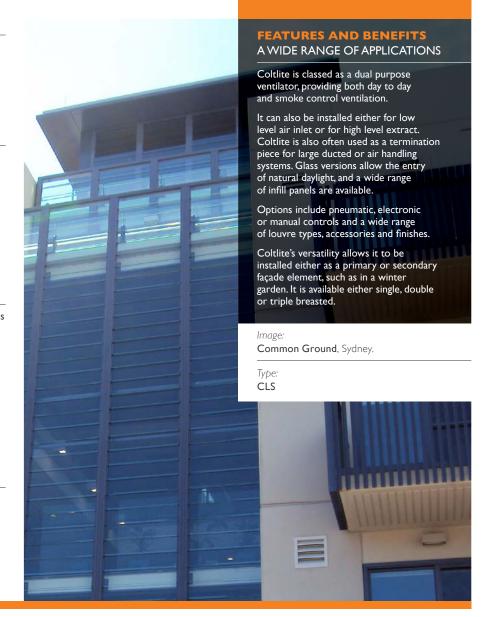
One of the architect's main design considerations is to make sure that any smoke emitted by a fire is evacuated from the building in a controlled fashion. Special arrangements need to be considered, in particular for escape routes such as in stairwells. Coltlite is very suitable for protecting escape 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 is 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

With electric versions there is an optional device to reduce the speed and force of the closing louvres in order to reduce the risk of finger trapping.

OWN MANUFACTURE

Coltlite CL is manufactured under strict quality control by Colt. Coltlite is manufactured under the ISO 9001 quality standard. Each unit is given a functional test before despatch.

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. We have optimised the ratio of glazed surface to profiles by developing narrow yet strong profiles.

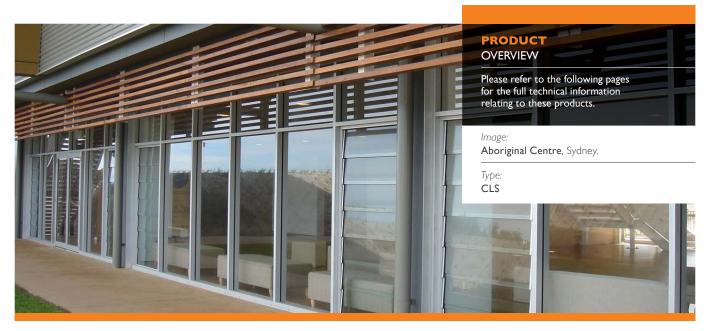
DESIGN SERVICE

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

Image

Louisiana Avenue, Washington DC.

Type:





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.



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.



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.

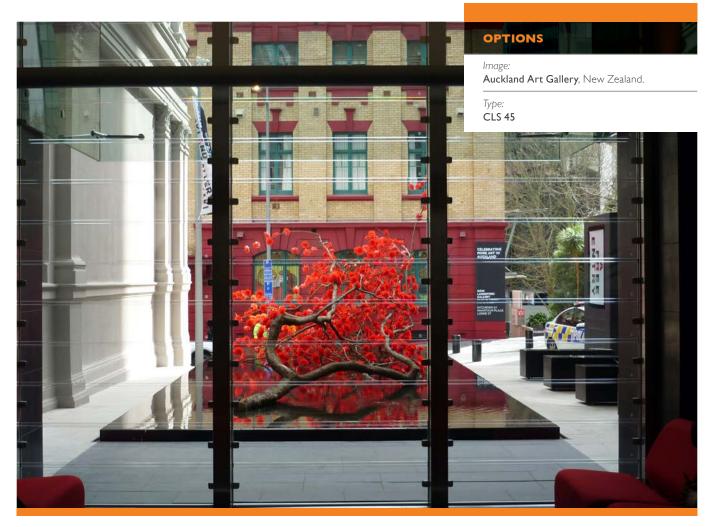
For the highest aerodynamic performance where thermal insulation is not a key requirement.



TYPE CLS 45

Non-thermally broken extruded aluminium outer frames. Frameless single glazed controllable louvres, closing flush, with either 8mm, 10 mm or 12 mm thick toughened bevelled glass. Overall frame depth 47mm, frame face width 40mm. Not tested or certified for smoke control ventilation.

Smooth, flush-glass design with bevel-edged glass louvres and point-fixed louvre brackets without the need for side frames.



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 and CLS 45 single glazed versions.

Louvres can also be provided with insulated aluminium sections. Except for the CLS and CLS 45 versions, 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 and CLS 45 have non-thermally broken outer frames and frameless glass louvres.

Both the outer and louvre frames of 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. With electric versions there is an optional device to reduce the speed and force of the closing louvres in order to reduce the risk of finger trapping.

MANUAL CONTROLS OPTION

Hand controls consist of a lever handle.

PAINT FINISHES

Coltlite is available either 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.



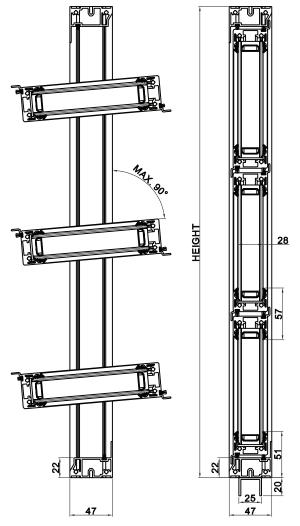
Image:

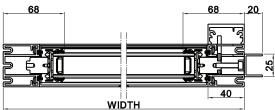
The University of Otago, Dunedin, New Zealand

Type: CLT



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.

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

VENT OVERALL WIDTH *Note (I)

VENT OVERALL HEIGHT 300mm - 3000mm per ventilator *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

PERFORMANCE AS A WINDOW (EN 14351-1) toughened glass.

300mm - 2000mm

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 and CE marked

Up to max. 1.9 W/m²/K

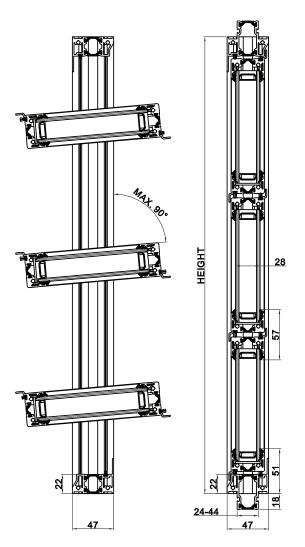
Up to max. 0.58

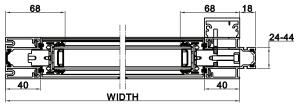
Up to max. 36 dB

Tested and certified - this guarantees its performance as a façade element.



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.

DESCRIPTION Thermally broken extruded aluminium outer frames and louvre frames.

VENT OVERALL WIDTH 300mm - 2000mm *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

PERFORMANCE AS A WINDOW (EN 14351-1) Double glazed louvres with 28mm thick clear toughened glass.

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 and CE marked

Up to max. 1.5 W/m²/K

Up to max. 0.58

Up to max. 41 dB

Tested and certified - this guarantees its performance as a façade element.



COLTLITE CLS

HEIGHT 8,10,12 64

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

PERFORMANCE AS A WINDOW (EN 14351-1)

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 and CE marked

Up to max. 5.8 W/m²/K

Up to max. 0.65

Up to max. 27 dB

Tested and certified - this guarantees its performance as a façade element.

NOTES

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

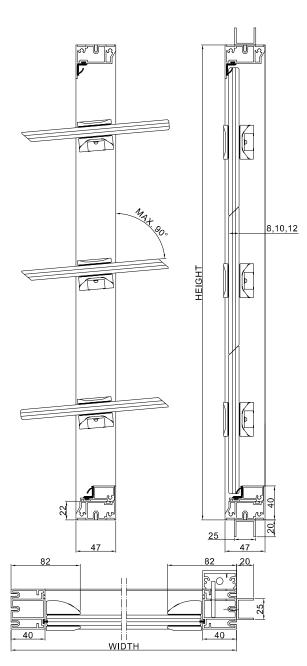
WIDTH

(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.



COLTLITE CLS 45



NOTES

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

DESCRIPTION Non-thermally broken extruded aluminium outer frames. Frameless single glazed controllable louvres, closing flush, with either 8mm, 10 mm or 12 mm 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

GLASS TYPES

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

PERFORMANCE AS A WINDOW (EN 14351-1) toughened bevelled glass.

300mm - 1600mm

300mm - 3000mm per ventilator

170mm - 350mm

Standard: centre pivoted. Other types on request.

Max. 90° (depends on the drive selected)

47mm

40mm

Single glazing

8, 10 or 12mm

Toughened

Manual, 24v dc or 230v ac electric

Class 2

Class 2A

Class B4

Not tested

Not tested

Not tested

Not tested

Tested and certified - this guarantees its performance as a façade element.

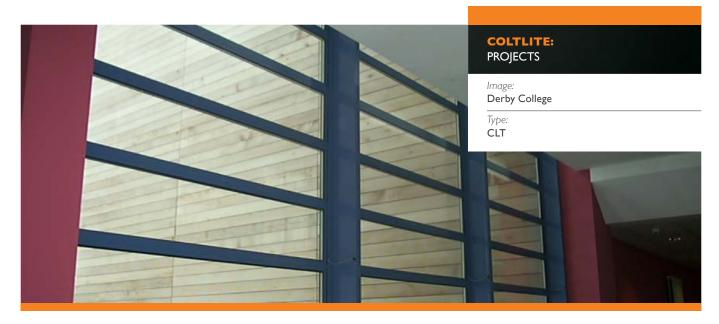








Image:

Holiday Inn, Leiden, Holland.

Туре: **CLT**

University of Herfordshire, Hatfield.

Type: **CLT**

Image:

AOV's on a project in London.

Type:





Shipton House, Hackney, London.

Туре: CLS



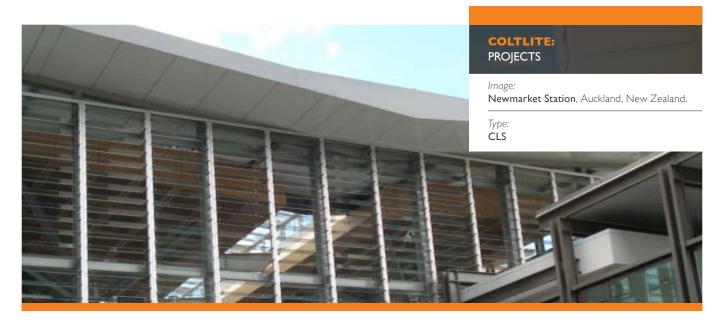
St. Matthew's Academy, London.

Туре: CLT



Nottingham University, Gracie Building.

Type: **CLT**







Waurn Ponds Library, Geelong, Australia.

Туре: **CLT**

Image:

Southmead Hospital, Bristol.

Туре: **CLT**

Image:

TAFE NSW College, Australia.

Type: **CLT**





Vendespace, France.

Туре: **CLT**



Image:

Internos Hoogezand, Holland.

Туре: **CLT**



Image:

Möbel Markt Sconto, Germany.

Type: **CLT**









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