Columbia
SKYLIGHTS

The natural light specialists

Residential and Commercial

Skylights and Sun Tubes

ENERGY STAR PARTICIPANT

NFRC National Fenestration Rating Council®

Celebrating 60 Years 2015

Design with Natural Light

Skylights bring all the benefits of natural light directly into your home, dramatically transforming any room, helping you save on energy costs and improving your health and well being. For smaller projects and areas where traditional skylights will not fit, Sun Tubes offer the ideal solution, bringing natural light into virtually any space.

Transform your home

Create the feeling and sensation of spaciousness without adding to your square footage. Skylights and Sun Tubes transform neglected spaces into living areas, opening your home to more pleasurable living.

Improve your health & well being

Exposure to daylight has been proven to benefit emotional and physical health. Skylights and Sun Tubes bring the benefits of sunlight into your home, blocking harmful UV rays, optimizing daylight and reducing glare.

Save on energy costs

Skylights and Sun Tubes help reduce the need for electrical lighting and ventilation systems. That's good news for the environment and your pocket!

Fresh air circulation

Venting Skylights provide natural ventilation, letting warm air escape and cool air circulate. An excellent energy efficient alternative to fans and air conditioners for removing VOCs (volatile organic compounds), odors and humidity.

Easy installation & maintenance

Skylights are a quick, easy and affordable way in which to transform your home. Columbia Skylights use state of the art LoE³ 366® glazing technology and a superior condensation drainage system that provides a low maintenance weather-tight product for years.

The Columbia Skylight Advantage

From humble beginnings over 60 years ago, Columbia has grown to become Canada's largest manufacturer of residential and commercial skylights. Since 1955 we have maintained our traditions of precision engineering and craftsmanship to deliver premium quality skylights that revolutionize your home life environment. Our long outstanding track record has made us the brand of choice for architects, roofers, contractors and DIY homeowners.

Why Columbia...

- Made in Canada since 1955
- Most complete skylight product line in Canada
- Energy Star® certified and built with the harshest climates in mind
- Our customers have more choices...
    - The industries largest selection of standard skylight sizes
    - 8 Glass and 3 Acrylic or Polycarbonate glazing options
    - 6 skylight cap frame colors
- Unbeatable custom capability, any model, any size, any glazing option
- Industry leading warranty featuring 20 years on sealed glass units

Quite simply, you will not find a better selection of quality skylight products or a more complete line of well priced products and accessories to meet your needs.

Green Friendly

Columbia Skylights support sustainability by reducing our environmental footprint through the recycling of raw materials, eliminating over-packaging, lean manufacturing techniques, and by producing energy efficient products that meet Energy Star® requirements. Columbia Skylights can assist your project obtain LEED™ certification.

1 ▶ Options for every application

Columbia Skylights are designed to fit homes with 16" and 24" on centre rafters or trusses as well as any other rough opening that you may have.

Curb Mount	Self Flashing	Deck Mount	Sun Tubes
#1 Choice for Contractor/ Pros	Designed for the Do-It-Yourselfer	Douglas Fir natural wood curb	Bring natural light to any space
VCM	VSF	CFS	RST/ FST

2 ▶ What type of roof do you have?

Skylights can be installed on asphalt or fiberglass shingles, slate, cedar shakes, concrete and Spanish tile, metal roofs and rubberized membrane - EPDM.

Flat Roof
Acrylic Dome
Acrylic Pyramid
Sun Tube

Sloped Roof
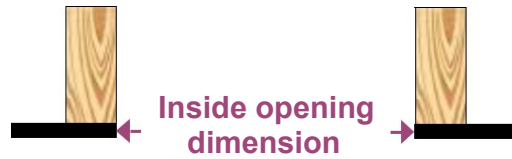Glass
Acrylic Dome
Acrylic Pyramid
Sun Tube

3 ▶ Fixed or Venting Skylights?

Self Flashing, Curb Mount and Deck Mount Skylights are all available in fixed and venting models. Choose from a crank handle (included as standard) or telescopic pole for manual operation or three electric venting options featuring remote operators and rain sensors. See page 6 for venting skylight options.

VCM	OVCM	VSF	OVSF	CFS	cvs
Curb Mount		**Self Flashing**		**Wood Deck Mount**	

4 ▶ Sizing your Skylight

Measure the inside curb dimension or the roof opening. Check the standard and custom size charts for availability. Columbia can make skylights to any size, any model, fixed or venting, from 14.5" x 14.5" to 94.5" x 94.5".

Inside opening dimension

5 ▶ Glazing Options

Standard glass is double glazed Tempered/ Tempered. All options are available with clear or white laminated glass for additional safety and noise control. See page 20 for more information on glazing options.

Energy Star® Certified Glass	Acrylic/ Polycarbonate
LoE3 Clear	Clear
LoE3 Neat	Bronze
LoE3 Bronze/ Grey	White
LoE3 Solar Reflective Bronze/ Grey	
LoE3 i89	Acrylic and Polycarbonate
LoE3 Triple Glazed	glazing available in **Single, Double, Triple glazed**

6 ▶ Choose your frame colour

Exterior aluminum frame with baked enamel Rideau Brown finish comes as standard. Columbia offers a full range of frame colour options on all models, fixed and venting, to match your roofing materials:

Brown	Grey	Black	White	Sandalwood	Mill Finish

Venting Skylights

Venting Electric Skylights

Available on Self Flashing, Curb Mount and Wood Deck Mount Skylights

At the push of a button or flick of a switch you are in charge with fresh air and temperature control. Columbia's electric venting skylight kits are designed by Truth Hardware™. Choose from our venting electric Elite, Deluxe and Standard kits.

1 ▶ **VE Elite**

- Load rated for a total skylight weight of **160lbs**
- LED remote controls an infinite number of skylights
- Built in thermostat opens skylight based on room temperature
- Create up to 9 separate skylight groups for simultaneous control
- Each group can control an infinite number of skylights
- Corrosion resistant rain sensor
- Decorative cover for skylight motor

2 ▶ **VE Deluxe**

- Load rated for a total skylight weight of **90lbs**
- Slimline remote allows control of up to 4 skylights
- Rain sensor closes the skylight at the first sign of moisture
- Decorative cover for skylight motor

3 ▶ **VE Standard**

- Load rated for a total skylight weight of **90lbs**
- Wall switch controls up to 4 skylights
- Wall switch designed for a single gang electrical box
- Decorative cover for skylight motor

Venting Manual Skylights

Open and close your skylights manually. Columbia offers a standard crank handle for skylights within reach and a telescopic pole option for out of reach applications. Telescopic poles come with an adapter and are available in two sizes:

4ft-6ft and **6ft-10ft**

4 ▶ Telescopic Pole

5 ▶ Standard Crank Handle

Skylight Models

Installation Method

Self Flashing - VSF/ OVSF

The Do-It-Yourself Skylight

Built in flashing and curb
Fixed and venting models
Available in glass and acrylic

Pages 8, 9

Curb Mount - VCM/ OVCM

The Contractor/ Pro choice

The widest range of standard sizes
Fixed and venting models
Available in glass and acrylic

Pages 10, 11

Wood Deck Mount - CFS/ CVS

Natural Wood finish

Built in Douglas Fir wooden curb
Fixed and venting models
Available in glass

Page 12

Roof Access - RAS

Ideal for roof gardens and patios

White aluminum interior frame finish with pull
down handle Available in glass and acrylic

Page 13

Circular Roof Domes - CRD

Residencial and commercial circular domes

Two standard sizes 48" and
72" Available in acrylic

Page 13

Sun Tubes - RST/ FST

Bring natural light into any space!

Residential and commercial sun
tubes Rigid and flexible models
Available for sloped and flat applications
Perfect for bathrooms, closets, wardrobes,
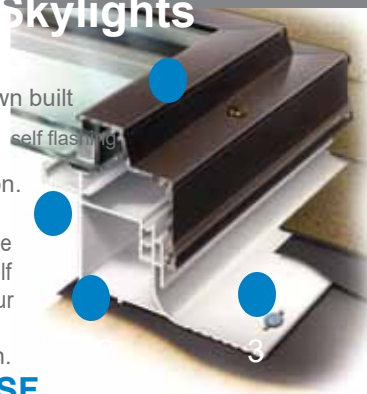hallways, laundry rooms and kitchens

Pages 14, 15

Self Flashing Skylights

Ready to mount with their own built in curb and flashing. Columbia's self flashing skylights are designed for quick and easy installation.

Offering the lowest profile from the Columbia Skylight range, the self flashing model compliments your roof line, offering a sleek, integrated, professional finish.

VSF

1 Durable Aluminum Cap: Baked brown enamel finish

2 Base Frame: Thermally broken white PVC base frame

3 Curb and Flashing: Built in maintenance free white PVC curb and flashing

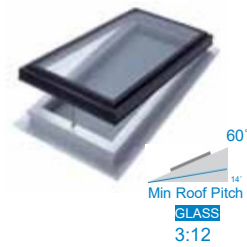**4 Condensation channel:** 4 sided channel with weep holes in each corner

Aluminum Cap Finish: Baked brown enamel finish standard Available in the following colors:

- Brown
- Black
- White
- Grey
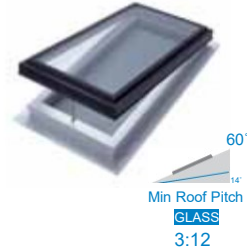- Sandalwood
- Mill Finish

ENERGY STAR

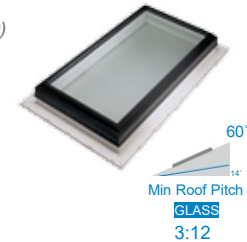## OVSF-E ▶ Venting Electric Self Flashing Skylight

- Available in three venting electric options:
  1 Elite **2** Deluxe **3** Standard
- Available in glass and acrylic *(See page 20)*
- Includes removable bug screen
- Energy Star® certified glazing options
- Skylight Blinds available *(See page 19)*

60°
14°
Min Roof Pitch
GLASS
3:12

OVSF ▶ Venting Manual Self Flashing Skylight

- Available in two venting manual options:
  4 Crank handle **5** Telescopic pole
- Crank handle is standard
- Optional Telescopic pole including hex ball adapter available in **4ft-6ft** or **6ft-10ft**
- Choice of glass and acrylic *(See page 20)*
- Includes removable bug screen
- Energy Star® certified glazing options
- Skylight Blinds available *(See page 19)*

60°
14°
Min Roof Pitch
GLASS
3:12

VSF ▶ Fixed Self Flashing Skylight

- Available in glass and acrylic *(See page 20)*
- Energy Star® certified glazing options
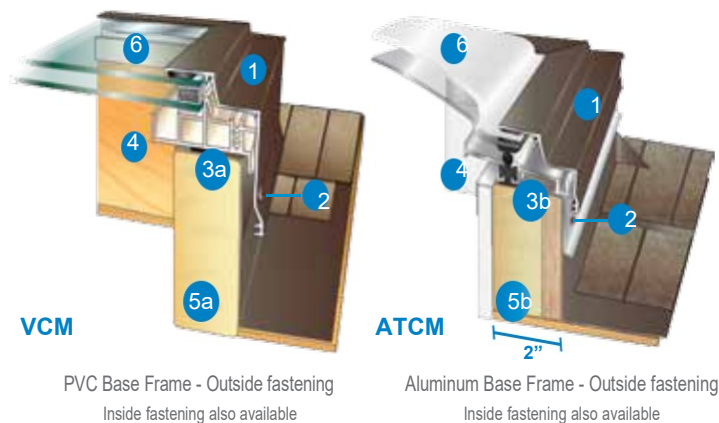- Skylight Blinds available *(See page 19)*

Minimum 3:12 roof pitch required

60°
14°
Min Roof Pitch
GLASS
3:12

Curb Mount Skylights

Recommended by roofing professionals as the optimum choice for long lasting, trouble free installation, Columbia's curb mount skylight is the preferred skylight mount for any type of roof.

VCM

PVC Base Frame - Outside fastening
Inside fastening also available

ATCM

Aluminum Base Frame - Outside fastening
Inside fastening also available

1 Durable Aluminum Cap: Baked brown enamel finish*

2 Installation: Outside fastening as standard. Inside fastening also available.

3 Base Frame:
  a Thermally broken white PVC base frame
  b Thermally broken aluminum base frame

4 Condensation channel: 4 sided channel with weep holes in each corner

5 Curb:
  a Can be installed on a 2 x 4, 2 x 6 or 2
  x 8 curb **b** Requires a full 2" wide curb

6 Glazing: 8 glass & 6 acrylic or polycarbonate glazing options *(See page 20)*

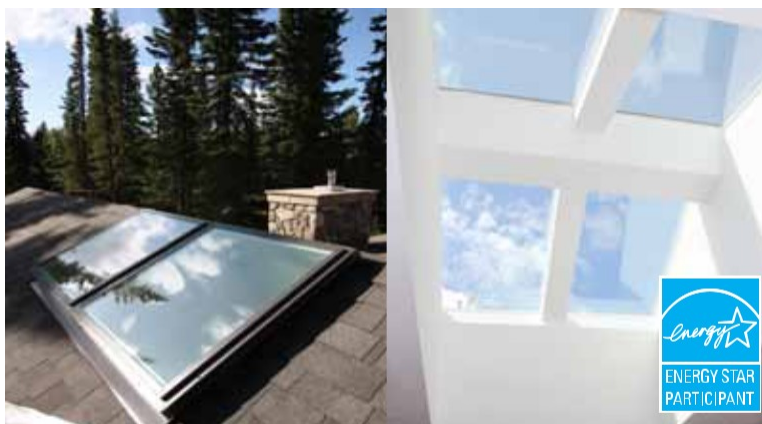***Exterior aluminum cap available in choice of colours**

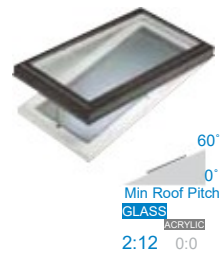| Brown | Black | White | Grey | Sandalwood | Mill Finish |

Curb Mount Skylights

OVCM-E Venting Electric Curb Mount

- Available in three venting electric options:
  1 Elite **2** Deluxe **3** Standard ¹⁰   (Se
- Available in glass and acrylic *(See page 20)*
- Includes removable bug screen
- Energy Star® certified glazing options
- Skylight Blinds available *(See page 19)*

60˚
0˚
Min Roof Pitch
GLASS ACRYLIC
2:12   0:0

OVCM Venting Manual Curb Mount

- Available in two venting manual options:
  4 Crank handle Telescopic pole *(See page 6)*
- Crank handle comes as standard
- Optional Telescopic pole including hex
  ball adapter available in **4ft-6ft** or **6ft-10ft**
- Choice of glass and acrylic *(See page 20)*
- Includes removable bug screen
- Energy Star® certified glazing options
- Skylight Blinds available *(See page 19)*

60˚
0˚
Min Roof Pitch
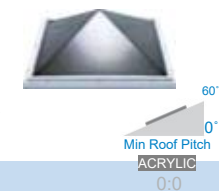GLASS ACRYLIC
2:12   0:0

VCM Fixed Curb Mount

- Columbia's most popular skylight
- Available in glass or acrylic *(See page 20)*
- 38 standard glass sizes
- 71 standard acrylic sizes
- Energy Star® certified glazing options
- Skylight Blinds available *(See page 19)*

60˚
0˚
Min Roof Pitch
GLASS ACRYLIC
2:12   0:0

VCM-P Fixed Curb Mount Pyramid

- Brings distinct architectural flare into your home
- Available in acrylic pyramid - double and triple glazed
- Can be installed on sloped or flat roofs
- Available in inside and outside fastening
- Can be installed on all types of site built curbs

60˚
0˚
Min Roof Pitch
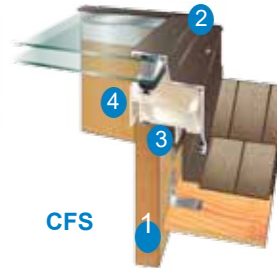ACRYLIC
0:0

ATCM Curb Mount Aluminum Frame

- Ideal for larger skylights and commercial applications
- Aluminum thermally broken heavy duty base frame
- Sloped condensation gutter for positive drainage
- Requires a full 2" wide curb
- Fastens from the outside
- Available in glass or acrylic and fixed or venting models

60˚
0˚
Min Roof Pitch
GLASS ACRYLIC
0:0

Wood Deck Mount Skylights

A premium deck mounted skylight which includes a Douglas Fir curb, PVC base frame and extruded aluminum cap. The Canadian Douglas Fir curb is:
• **Not primed** • **No Finger joints** • **Premium Quality** • **Natural wood**

CFS

1 Curb: Premium 1" x 5.5" natural Douglas Fir recesses into skylight opening
2 Durable Aluminum Cap: Baked brown enamel finish
3 Base Frame: Thermally broken white PVC base frame
4 Condensation Channel: 4 sided channel with weep holes in each corner

CVS-E ▶ Venting Electric Wood Deck Mount

• Available in three venting electric options:
  1 Elite **2** Deluxe **3** Standard *(See page 6)*
• Available in glass *(See page 20)*
• Includes removable bug screen
• Energy Star® certified glazing options
• Skylight Blinds available *(See page 19)*

60°
14°
Min Roof Pitch
GLASS
3:12

CVS ▶ Venting Manual Wood Deck Mount

• Available in two venting
  manual options: *(See page 6)*
  4 Crank handle ● Telescopic pole

• Crank handle comes as standard
• Optional Telescopic pole including hex
  ball adapter available in **4ft-6ft** or **6ft-10ft**
• Available in glass *(See page 20)*
• Includes removable bug screen
• Energy Star® certified glazing options
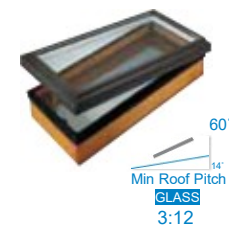• Skylight Blinds available *(See page 19)*

60°
14°
Min Roof Pitch
GLASS
3:12

CFS ▶ Fixed Wood Deck Mount

• Available in glass *(See page 20)*
• Energy Star® certified glazing options
• Skylight Blinds available *(See page 19)*

60°
14°
Min Roof Pitch
GLASS
3:12

Exterior aluminum cap available in choice of colours

Brown   Black   White   Grey   Sandalwood   Mill Finish

Sizes	A06	C01	C04	C06	C08	M02	M04	M06	M08	S06
Rough Opening	14.5 x 45.25	21.75 x 28	21.75 x 37	21.75 x 45.25	21.75 x 55	29.75 x 29.75	29.75 x 37	29.75 x 45.25	29.75 x 55	45.25 x 46.5

Roof Access Skylights

The ideal solution to gain outdoor access to a rooftop for outdoor living spaces or services. The roof access skylight can be installed on a flat or sloped roof curb application.

Ideal for:

Roof Gardens

Roof Patios

Emergency Exits

Balcony Access

Eco-Roofing

Service Access

RAS	Roof Access Skylight

- Available in glass or acrylic dome
- Acrylic dome suitable for flat roof applications
- Glass pitch minimum 2:12
- Internally welded one piece thermally broken white aluminum frame with pull down handle
- Heavy duty opening gas hydraulic cylinders
- Choose from 6 frame aluminum cap colors

- Brown
- Black
- White
- Grey
- Sandalwood
- Mill Finish

60°
0°
Min Roof Pitch
GLASS   ACRYLIC
2:12   0:0

Circular Roof Domes

Delivers a dramatic departure from the ordinary, opening your home or lobby/reception area to a lightwell affording a beautiful overhead pool of sunlight.

CRD	Circular Roof Dome

- Available in two standard sizes: 48" and 72"
- Suitable for flat or sloped roof
- Available in acrylic or polycarbonate domes
- Built in 6" non-condensating fiberglass brown curb
- Standard exterior brown fiberglass finish

INSIDE CURB (inches)	
C48R	C72R
42	66.5

Residential Sun Tubes

Columbia's residential Sun Tubes bring the natural light of the sun to virtually any space in your home. Installed on any roof in under two hours, the low profile acrylic dome captures sunlight on your roof from dawn til dusk.

- Kit: Dome, roof jack, 4ft. of light tube and a prismatic or soft white diffuser
- Flat and sloped kits available in 4 sizes: **10" 13" 18" 21"**
- Quick, simple installation for any shingle or shake roof
- A source of natural light where regular skylights cannot be installed
- See page 17 for residential sun tube accessories

Models ▶ **Choose from four models**

Flat	**Sloped**	**Curb Mounted**	**Low Profile Glass**
10" 13" 18" 21"	10" 13" 18" 21"	10" 13" 21"	13"

1 Dome

- Formed from high impact modified acrylic
- Absorbs 99% of UV rays while maintaining optic clarity
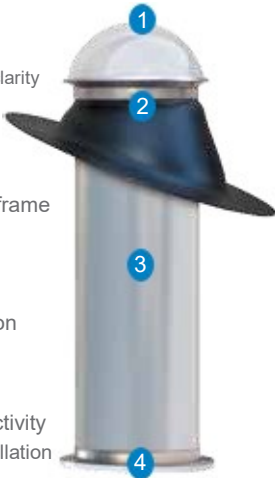- Aluminum trim ring and stress collar

2 Roof Jack (Flashing)

- Black baked enamel heavy duty aluminum frame
- Compliments existing roofing materials
- Angled roof jack with unique forward sloping design eliminating light robbing elbows.
- Flat roof jack available for flat roof installation

3 Rigid Light Tube

- Micro Silver aluminum light pipe: 98% reflectivity
- Pipe is easily trimmed with shears during installation

4 Flat Diffuser

- Diffuser sits flush with your ceiling for a clean, integrated, sleek finish
- Standard kit comes with prismatic diffuser. Soft white diffuser available for less intense light. Includes double lens for optimum energy efficiency.

Model Size	Coverage Area	Wattage Output Equivalent	Max Tube Length
10"	Up to 150 sq. ft.	Up to 300 Watts	12ft
13"	Up to 300 sq. ft.	Up to 500 Watts	14ft
18"	Up to 500 sq. ft.	Up to 1000 Watts	16ft
21"	Up to 700 sq. ft.	Up to 1450 Watts	20ft

Residential Sun Tubes

FST ▶ Flexible Sun Tube

Columbia's flexible sun tube skylight is the easiest tubular system to install. The highly reflective aluminum light pipe directs sunlight around obstacles and is ideal for shorter runs.

- Kit: Dome, roof jack, 8ft. of flexible light tube and a prismatic or soft white diffuser

- Available in the most popular sun tube size: **13"**

- Quick, simple installation for any shingle or shake roof

- Designed for ease and speed of installation

- Easily installs around attic obstructions

Models ▶ Choose from four models

Flat	Sloped	Curb Mounted	Low Profile Glass
13"	13"	13"	13"

5 Flexible Sun Tube

- 8ft of flexible light pipe included, 12ft kit also available
- Highly reflective aluminum duct
- Tear, puncture and fire resistant
- Easiest tubular product to install, ideal for shorter runs

Installs in Under 2 Hours!

Commercial Sun Tubes

Ideal for schools, offices, factories, warehouses, hospitals or retail buildings, Columbia's Commercial Sun Tube brings the benefits of natural light to virtually any space.

- Available in two flashing options and three interior finishes
- Delivers up to 1450 watts of light with a coverage area of up to 700 sq. feet
- Ideal for T-Bar office settings and warehouse applications
- See page 17 for Commercial Sun Tube accessories

Flashing Options

1 Flat roof flashing   **2** Curb mounted model

Finishing Options

A Sheet Rock **B** Transition Box   Warehouse
(Drop ceiling offices)

Model Size	Coverage Area	Wattage Output Equivalent	Max Tube Length
21"	Up to 700 sq. ft.	Up to 1450 Watts	20ft

Sun Tube Accessories

Light Tube Extension (24")
- Available on all Sun Tubes – 10", 13", 18", and 21"
- Constructed from the same reflective material as the light pipe
- Tek screws and foil tape included

Elbow
- Available on all Sun Tubes – 10", 13", 18", and 21"
- Fully adjustable from 0-45 degrees
- Constructed from the same reflective material as the light pipe
- Tek screws and foil tape included

Electric Light Kit
- Available on all Sun Tubes – 10", 13", 18", and 21"
- Can be installed in place of previous light fixture
- Holds standard, CFL or LED light bulbs
- Installs directly into the lower portion of the light pipe
- Wired to wall switch for operation
- Straight forward installation, requires basic wiring skills

Remote Dimmer Kit
- Available on Sun Tubes – 10", 13" and 21"
- Kit: Remote, dimmer panel, light pipe and 120 volt rpm motor
- Installed in the lower portion of the light pipe
- Includes receiver that must hang vertically on nearby stud
- Dimmer may also be hard wired for wall switch

Tile skirt
- Available on 10", 13" and 18" Sun Tube models
- For sloped tiled roof applications
- Install over the sun tube flashing for optimal seal

Turret Extension
- Available on 10" and 13" Sun Tube models
- Used when installing on high profile S tiles
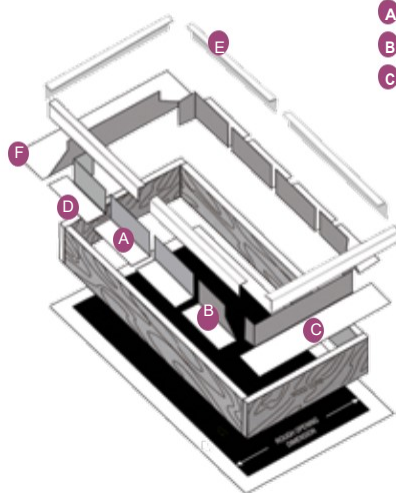- Slip the turret over flashing lip to accommodate the S tiles

Flashing Kits and Underlayment

FKCM ▶ Curb Mount Flashing Kit

- For sloped asphalt, shingle or wood shake roofs only
- Not suitable for flat roofs. Must use cant strip and customized flashing
- Compatible with Columbia's Fixed and Venting Curb Mount Skylights
- Suitable for 2' x 4' or 2' x 6' curb
- Features pre-cut aluminum steps and pre-formed head and sill flashings
- Includes counter flashing
- Custom sizes available
- Baked enamel brown finish as standard
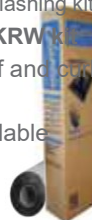- Black, Charcoal Grey, White and Mill finish flashing kits also available

A Step flashing	**D** Head step flashing
B Sill step flashing	**E** Counter flashing
C Sill flashing	**F** Head flashing

FKRW ▶ Wood Deck Mount Flashing Kit

- Wood Deck Mount skylights (CFS & CVS) require Columbia flashing kit
- **Warranty on Deck Mount void unless installed with FKRW**
- Kit includes roofing underlayment for use between roof and curb
- Baked enamel brown finish as standard
- Black, Charcoal Grey and White flashing kits also available

SRU ▶ Skylight Roofing Underlayment

- Self-adhesive membrane
- Eliminates air currents and water infiltration
- 25mil thick synthetic roof underlayment made of polyolefin
- Measures 12" x 21'
- UV protected, anti-skid surface allows for fast and safe installation
- May be installed without primer
- Self adhesive activated by release sheet

Columbia Skylight Blinds

Control the amount of light and heat entering your skylight with a Columbia Skylight Blind. Offering great value and style at an attractive price, transform any room with one quick and easy installation. All fabrics are constructed of polyester which help prevent staining and water absorption. Columbia Skylight Blinds are available in three fabric options:

Privacy - Pleated	Light Filtering - Cellular	Blackout - Cellular
Smooth White Ivory	Frost Oatmeal	Egg Shell Alabaster

Why Skylight Blinds?

• Control the amount of light & heat entering a room
• Save on energy costs - both heating and cooling
• Skylight Blinds provide privacy and style
• Reduce fading on carpets, fabrics and furniture
• Cut out over 90% of harmful UV rays
• Easy to install: fasten brackets & snap the blind into the lightwell
• Easy to use: smooth operation with telescopic pole or manual handle

Fabric and Function

Model	Design	% Light Stopped	% Heat Gain Stopped	% UV Rays Stopped
Privacy	Pleated	20%	40%	90%
Light Filtering	Cellular	35%	55%	90%
Blackout	Cellular	99%	79%	90%

Sizes ▷ Standard and Custom Sizes

14 Standard sizes up to 4 x 4. Custom capability also available.

Model	2020	2028	2036	2052	2828	2836	2840
Finished Lightwell opening dimensions w x h (inches)	13.5 x 13.5	13.5 x 21.5	13.5 x 29.5	13.5 x 45.5	21.5 x 21.5	21.5 x 29.5	21.5 x 33.5
	2852	**3636**	**3652**	**4040**	**4052**	**4242**	**5252**
	21.5 x 45.5	29.5 x 29.5	29.5 x 45.5	33.5 x 33.5	33.5 x 45.5	35.5 x 35.5	45.5 x 45.5

• Blinds are fitted in the light shaft below the skylight
• Bottom rail includes a spring and turnbuckle to make tension adjustments
  Blinds must be installed at least 12" from skylight to maintain warranty
  If installed too close, heat build up could damage skylight frame and or seal.

Glazing Options

GLASS

Columbia uses state of the art LoE³ 360® technology to deliver the industry's widest range of Energy Star® certified glazing options.

Tempered/ Tempered - Five times stronger than ordinary glass
- All glass units include both panes tempered

Tempered/ Laminate - A plastic interlayer is added for additional safety
- Glass fragments adhere to plastic interlayer when broken
- Choose from clear or white translucent laminate glass
- Reduces outside noise
- Blocks 99% of UV rays
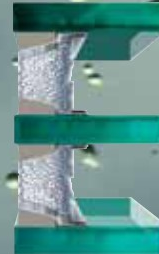- Available as an add on for all glazing options

Glazing option	UV Rays Blocked	Light Transmitted	Solar Heat Gain	Glazing Standard
LoE³ Clear	95%	64%	0.28	GOOD
LoE³ Neat	95%	64%	0.28	GOOD
LoE³ Bronze/ Grey	95%	45%	0.27	BETTER
LoE³ Solar Reflective Bronze/ Grey	95%	17%	0.15	BETTER
LoE³ i89	99.5%	58%	0.25	BEST
LoE³ Triple Glazed	99.5%	46%	0.24	BEST

Double Glazed
Tempered/ Tempered

Double Glazed
Tempered/ **Laminated**

Triple Glazed
Temp/ Temp/ Temp

ACRYLIC

Clear Allows the maximum amount of visible light

Bronze Allows a clear view through the skylight while reducing the amount of visible light and solar heat gain. Results in softer room lighting.

White Offers privacy along with reduced visible light and solar heat gain.

POLYCARBONATE

A tough plastic that exhibits outstanding strength, often used in commercial applications where lower flame spread ratings are required.

Glazing Options

LoE³ Clear

Industry Bench Mark

- Dual pane with argon gas.
- LoE³ - 366® coating is virtually invisible.
- Blocks 95% of the sun's damaging ultraviolet rays.
- Twice the condensation resistance of ordinary glass.

LoE³ Neat

Low Maintenance, Self Cleaning

- All the benefits of LoE³ Clear plus self cleaning properties.
- Titanium dioxide layer breaks up organic on the glass.
- Exceptionally smooth surface allows rain water to 'sheet off'.
- Rain water evaporates quickly preventing water spotting.

LoE³ Bronze/ Grey

For a softer light

- All the benefits of LoE³ Clear plus glare reduction.
- Reduces solar heat gain and light transmittance.
- Ideal for rooms that require a softer light.
- Suitable for rooms that are south or west facing
- **Neat** glass available as add on

LoE³ Solar Reflective Bronze/ Grey

Mirror Finish

- Mirror finish reflects the sun
- The lowest visible light transmittance and daytime privacy
- Superior solar heat gain and light control characteristics

LoE³ i89

Close to Triple Pane Performance

- All the benefits of LoE³ Clear plus additional i89 coating
- Gives you close to triple pane performance
- Optimal thermal performance at an affordable price
- **Neat** glass available as add on

LoE³ Triple Glazed

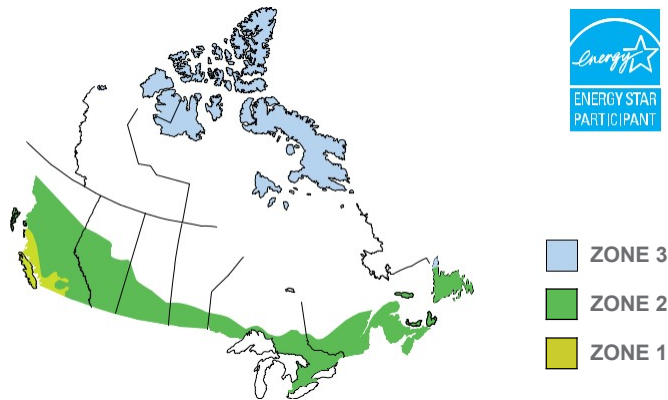### The Ultimate Performance Glass

- Three layers and two LoE³ 366 coatings
- Effective in reducing noise transmission
- Suitable for all climate zones
- **Neat** glass available as add on

Energy Star® Skylights

Columbia manufactures the widest range of Energy Star® certified skylights in Canada. By choosing Energy Star® certified Skylights you save on energy costs and protect the environment. Find out what zone you live in and choose an Energy Star® glazing option that meets the requirements.

Canada's Energy Star® Zones

ENERGY STAR PARTICIPANT

ZONE 3
ZONE 2
ZONE 1

New Energy Star zones effective February 2015

What makes a Skylight Energy Efficient?

1 **U Factor:** Indicates the rate of heat loss. The lower the U Factor the greater a skylights resistance to heat flow.

2 **SHGC** (Solar Heat Gain Coefficient): The fraction of incident solar radiation admitted through a skylight, Expressed as a number between 0 and 1, the lower a skylight's solar heat gain coefficient, the less solar heat it transmits.

3 **VT** (Visible Transmittance): The amount of visible light transmitted. A high VT is desirable to maximize daylight.

The Columbia Advantage
Built with the harshest climates in mind...

• 7 Energy Star® certified glass glazing options

• LoE³ Triple glazed and LoE³ i89 are the skylight industry's most energy efficient glazing options, helping you maximize savings and reduce your green footprint. Available on all models, fixed and venting, standard and custom sizes.

• For technical information on the energy efficiency of any of Columbia skylight or sun tube model visit:
www.columbiaskylights.com or www.oee.nrcan.gc.ca

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Dedicated to your total satisfaction, Columbia's Skylights and Sun Tubes are crafted from the finest materials available, engineered with unparalleled quality. Guaranteed to be weather tight, providing a lifetime of enjoyment and trouble free maintenance. All sealed glass units are guaranteed for a period of twenty years from the date of purchase.

For more information on Columbia's industry leading warranty visit our website.