

EXAMPLE OF ROOF MONITOR/CURB SPECIFICATION FOR VELUX FLAT ROOF SKYLIGHT APPLICATION

SECTION 07721

PRE-FABRICATED ROOF CURBS/ROOF MONITORS

PART 1 - GENERAL

RELATED SECTIONS

Section 07500 – Membrane Roofing
 Section 07717 – Roof Expansion Assemblies
 Section 08600 – Skylights
 Section 13121 – Pre-engineered Buildings
 Section 15720 – Air Handling Units

SUBMITTALS

Submit under provisions of Section 01300
 Product Data: Manufacturer's technical literature, specifications and installation instructions
 Shop Drawings: Prepared specifically for this project – show dimensions, rough-in requirements and details of attachment substrates

DELIVERY, STORAGE AND HANDLING

Inspect the materials upon delivery to ensure that specified products have been received.
 Store units to protect from construction traffic and damage.
 Handle in strict compliance with manufacturer's instructions and recommendations.

WARRANTY

The warranty on skylights and the warranty on the curb are separate. VELUX skylights are covered against defects in materials and workmanship for 20 years on glass, 10 years on skylights and 5 years on electric components and blinds. Most curb manufacturers warrant pre-fabricated roof curbs against defects in materials and workmanship for a period of 5 years from the date of substantial completion.

PART 2 - PRODUCTS

MANUFACTURERS

Choice of curb manufacturer up to the architect or contractor depending on job. Curbs can be ordered directly from curb manufacturers based on outside curb dimensions of the VELUX skylights and the configuration of the skylight openings.

MANUFACTURED UNITS

Adapter frame of box section design, mitered corners, minimum 14 gauge galvanized steel, fully-welded one-piece construction. Sloped cover design for positive water run-off recommended. Internally reinforced to support equipment load. Internal fiberglass insulation, closure strip and gasketing.

ACCESSORIES

Not required

FABRICATION

Fabricate adapters in accordance with approved drawings. Fully miter and weld corners; coat welds after fabrication. Fabricate with integral base plates and factory installed pressure treated wood nailers. Material: galvanized steel. Minimum gauge 18. Factory insulate with 1½ inch (38mm) thick three pound density fiberglass insulation.

PART 3 - PREPARATION

Coordinate size of curbs and required options with affected trades and roof curb manufacturer before fabrication.

INSTALLATION

Install prefabricated adapters and accessories in strict accordance with manufacturer's printed instructions and as detailed on drawings. Bolt or screw adapters to existing curbs. Place frame on base curb; apply gasket to perimeter of frame top in preparation for roof top unit installation.

For flat roof applications, VELUX recommends the following outside curb dimensions for FCM skylights

SKYLIGHT	OUTSIDE CURB DIMENSION
FCM 2222	25" x 25"
FCM 2234	25" x 37"
FCM 2246	25" x 49"
FCM 3030	33" x 33"
FCM 3046	33" x 49"
FCM 3434	37" x 37"
FCM 4646	49" x 49"



VELUX ROOF MONITORS

Efficient Daylighting Solutions for Flat Roof Buildings

“Of all the high performance design features typically considered, none will have a greater impact on your school than daylighting. Not only can optimum daylighting designs drastically reduce energy consumption, but it also creates healthier learning environments. Roof monitors perform two critical functions. They provide uniform light within the room and they eliminate glare.”

*Energy Design Guidelines
 for High Performance Schools
 US Department of Energy, June 2002*



VELUX – For flat roof replacement of broken plastic skylights or new construction on commercial buildings, VELUX FCM will help you bring daylight through the roof in an energy efficient, durable and practical way. From unit to structural applications, VELUX creates daylighting solutions.



Skylights manufactured by VELUX, roof monitors/curbs manufactured by others. VELUX will help with the coordination of your order with a roof monitor manufacturer. Please call VELUX at 800-888-3589 and refer to a commercial roof monitor or curb application.



BRINGING LIGHT TO LIFE™

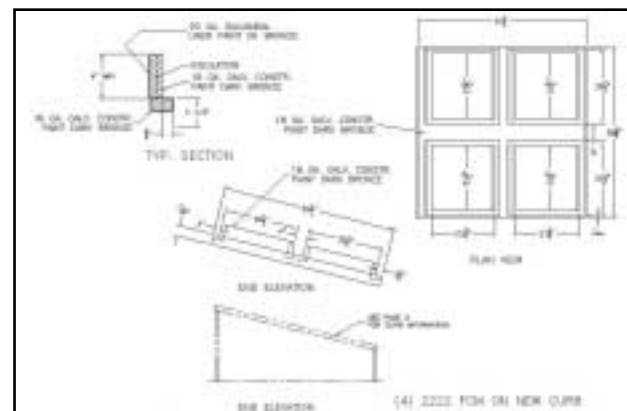
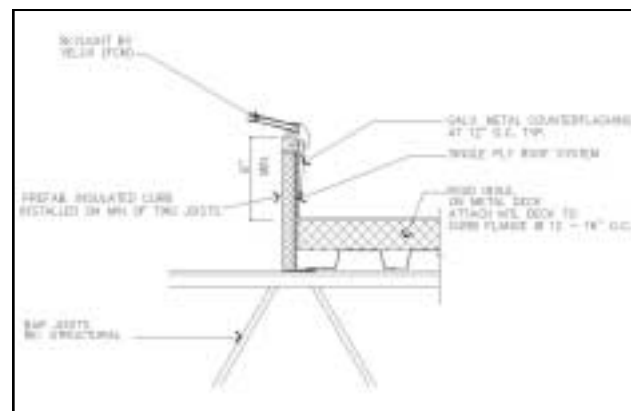


VELUX America Inc.
 450 Old Brickyard Road
 PO Box 5001
 Greenwood, SC 29648-5001
 Phone: 1-800-888-3589
 Fax: 1-864-943-2631
 Internet: <http://www.VELUXUSA.com>

VELUX ROOF MONITOR SOLUTION – STRUCTURAL



- Pre-manufactured and pre-assembled
- No on-site glazing necessary – eliminate human error factor
- No size limitations
- Meets OSHA Fall Protection Code
- Double slope applications possible
- Energy efficient system
- Affordable system – usually less than \$35 per square foot of daylight
- Versatile system – blinds and controls available
- White laminated glass available



Examples of roof monitor drawings

VELUX ROOF MONITOR SOLUTION – FRAMED IN “Dog Shed Concept”



- Customized standard approach
 - Standard products
 - Custom configuration
 - Structural glazing look – standard skylight pricing
- Skylights can be as close as 2½ inches apart frame to frame
- No size limitations
- White laminated glass available
- Energy efficient system
 - Exceeds ENERGY STAR® requirements
 - Blinds and controls available
 - Unlike structural glazing systems, framing members insulated
- Meets OSHA Fall Protection Code
- Skylights flashed in with VELUX flashing ensures leakproof installation

