

DOCKETED

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CLERESTORY Definition Unclear or Incorrect

Additional submitted attachment is included below.

Feb 16th, 2018

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Re: Docket # 17-BSTD-02
“CLERESTORY GLAZING” DEFINITION SEEMS INCORRECT

INTRODUCTION:

Robert Shearer applauds the efforts to include a definition of CLERESTORY in the FENESTRATION section of section 100.1 within the Building Energy Efficiency Standards of the State of California by your agency.

The 45-Day Language 2019 Building Energy Efficiency Standards Section 100.1 DEFINITIONS contains a new definition: “CLERESTORY GLAZING”. I believe I understand exactly what it means, I also believe it is incorrect.

ABSTRACT:

The definition of the term “Clerestory Glazing” is required in Section 100.1 of the Building Energy Efficiency Standards as this Fenestration “component” has previously only been described in the Nonresidential Compliance Manual, (along with “Monitor Window”).

The drawings within the Nonresidential Compliance Manual clearly show a window installed above a roofline – in the case of a “Monitor Window”, (or “Roof Monitor”), there would be a single bay with 2 or more “Clerestory Windows” installed. Additionally, the Nonresidential Compliance Manual clearly states that a Monitor, (or Clerestory), window creates a SKYLIT Daylit zone *with the dimensions of a PRIMARY SIDELIT Daylit Zone* – this is borne out by the drawings within the Manual. This description of the Daylit Zone created by “Monitor Windows” and “Clerestory Windows” is presented in *both* the NLCAA *and* CALCTP instruction given to aspiring lighting Control Acceptance Test Technicians.

The new definition in section 100.1 – DEFINITIONS; FENESTRATION: Includes the following: reads:

CLERESTORY GLAZING is any portion of exterior vertical glazing greater than eight feet per floor above the finished floor of a space.

This appears to be grammatically clumsy, but that is not the problem. The problem is that any portion of a window above eight feet from finished floor converts the entire window into “CLERESTORY GLAZING” for Daylit Zone definitions *and* rules of precedence for controlling luminaires.

THE ARGUMENT AGAINST ALLOWING THIS DEFINITION:

Other than what has been outlined in the proceeding section ...

There is currently a definition of a SKYLIGHT which does not appear to be causing any confusion:

SKYLIGHT is fenestration installed on a roof less than 60 degrees from the horizontal.

Further:

The new definition does not describe the Fenestration Product illustrated within the Nonresidential Compliance Manual; nor does it align with the IES description and drawings of a "Clerestory"¹.

CONCLUSION:

It is recommended that a definition similar to that of a SKYLIGHT be considered.

Such as:

CLERESTORY GLAZING is fenestration installed above a roofline greater than or equal to 60 degrees from the horizontal.

Thank you,

Robert A. Shearer, BSEE

¹ IES LIGHTING HANDBOOK 1981 Reference Volume, SECTION 7, Daylighting, figures: 7-18, 7-19, 7-20