

# MINIMUM SKYLIGHT AREA WORKSHEET

NRCC-ENV-04-E

## MINIMUM SKYLIGHT AREA FOR LARGE ENCLOSED SPACES (definitions in §130.1(d), requirements in §140.3(c))

Project Name:

Date:

This worksheet applies to buildings with three or fewer stories, in climate zones 2 through 15, having an enclosed conditioned or unconditioned space > 5,000ft<sup>2</sup> that is directly under a roof, with a ceiling height > 15 ft and does not meet the exception in §140.3(c) then Go to Step 1 below.

- Enter building plan reference page for Large Enclosed Space \_\_\_\_\_.
- Enter building plan reference page for Proposed Daylight Area \_\_\_\_\_.

Skylights not required as fully designed lighting system as shown on page \_\_\_\_\_ of building plans has general lighting power density of \_\_\_\_\_ W/ft<sup>2</sup>, which is less than 0.5 W/ft<sup>2</sup> (§130.1(b)) or less than 0.7 W/ft<sup>2</sup> for schools or enclosed ceiling height partitions with 1 luminaire and max of two lamps. **Note:** this exemption applies only to buildings with a fully designed lighting system. This exception does not apply to core & shell buildings. **STOP HERE IF THIS BOX IS CHECKED. Space is exempt from minimum skylight area requirement.**

**NOTE:** The minimum skylit zone requirements can be met by using skylit daylight zones, primary sidelit daylight zones, or Secondary Sidelit Daylit Zone combinations. Use Step 1 below if using skylit daylight zones for compliance. Use Step 2 below if using primary sidelit daylight zone for compliance. Use Step 3 below if using secondary sidelit daylight zone for compliance.

*Step 1 Calculate if Total Proposed Skylit Daylit Zone (§130.1(d)) is greater than or equal to Minimum Daylit Zone.*

Criterion 1: Check if Total Proposed Skylit Daylit Zone is greater than or equal to Minimum Daylit Zone. (B ≤ E)

If Criterion 1 is checked, skip step 2. Go to Step 4.

	Average Ceiling Height of the proposed design, large enclosed space.	A	ft	Ceiling Height
	Proposed Minimum Skylit Daylit Zone = 0.7 x Ceiling Height (A) – any Permanent Obstruction see §130.1(d)1A.	B	ft <sup>2</sup>	Minimum Proposed Skylit Daylit Zone

*Step 2 Calculate if Proposed Primary Sidelit Daylit Zone is greater than or equal to Minimum Daylit Zone*

Criterion 2: Check if Total Proposed Sidelit Daylight Zone is equal to or greater than Minimum Daylit Zone (C ≥ B)

If Criterion 2 is checked, skip step 3. Go to Step 4.

	Primary sidelit daylit zone determined in accordance with §130.1(d)1B and as shown on the plans.	C	ft <sup>2</sup>	Proposed Primary Sidelit Daylit Zone
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*Step 3 Calculate if Proposed Secondary Sidelit Daylit Zone is greater than or equal to Minimum Daylit Zone*

Criterion 3: Check if Total Proposed Daylight Area is greater than or equal to Minimum Daylit Area (D ≥ B)

If Criterion 3 is checked, Go to Step 4.

	Secondary Sidelit Daylit Zone determined in accordance with §130.1(d)1C and as shown on the plans.	D	ft <sup>2</sup>	Proposed Secondary Sidelit Daylit Zone
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*Step 4 Confirm that Proposed Primary and Secondary Sidelit Zone is greater than or equal to Minimum Proposed Skylit Daylit Zone (B).*

Criterion 4: Check if Total Proposed Daylit Zone Area is greater than or equal to Minimum Proposed Skylit Daylit Zone (E ≥ B)

If Criterion 3 is checked, Go to Step 4.

	Total Proposed Daylight Area = Primary Sidelit + Secondary Sidelit Zones or Add C + D and enter into E and compare.	E	ft <sup>2</sup>	Total Proposed Daylit Area
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Step 5

Space PASSES: Check if Criterion 1 and 2; and, Criterion 4 are checked.

Space PASSES: Check if Criterion 2 and 3; and, Criterion 4 are checked.

Space PASSES: Check only if Criterion 1 through 4 are all checked

**MINIMUM SKYLIGHT AREA WORKSHEET**

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**MINIMUM SKYLIGHT AREA FOR LARGE ENCLOSED SPACES** (definitions in §130.1(d), requirements in §140.3(c))

Project Name:

Date:

**Documentation Author's Declaration Statement**

- I certify that this Certificate of Compliance documentation is accurate and complete.

Name:

Signature:

Company:

Date:

Address:

If Applicable:

CEA #

CEPE #

City/State/Zip:

Phone:

**Principal Designer's Declaration Statement**

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the design.
- This Certificate of Compliance identifies the envelope features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name:

Signature:

Company:

Date:

Address:

License #

City/State/Zip:

Phone:

**Envelope Mandatory Measures**

Indicate location on building plans of Mandatory Envelope Measures Note Block: \_\_\_\_\_

**INSTRUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS** (check box if worksheet are included)

*For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Compliance Manual.*

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|--------------------------|--------|---|
| <input type="checkbox"/> | ENV-1C | Certificate of Compliance and Field Inspections Energy Checklist. Required on plans for all submittals.                         |
| <input type="checkbox"/> | ENV-2C | Use with the Envelope Component Approach. Optional on plans.  |
| <input type="checkbox"/> | ENV-4C | Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. |