

hollingsworth pack ■ **austin**

civil engineering
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Structural Certification Letter

Kathedral Greenhouse
Manufactured by Janssens AluSystems in Belgium

Hollingsworth Pack has performed a structural analysis of the Cathedral model to determine compliance with the International Building Code, which has been adopted by State and Local governments across all U.S. States and Territories. This is a pre-fabricated aluminum greenhouse covered with tempered glass panels. This greenhouse is considered Risk Category I in 2021 International Building Code.

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Based upon our analysis, we have concluded that the greenhouse is adequate to support the following loads per the 2021 International Building Code:

Wind Load: 105 MPH (3-second gusts), Exposure C
Snow Load: 25 PSF (ground-snow load)
Roof Live Load: 20 PSF (reducible)

Our structural analysis and conclusions also assume that the greenhouse is installed with a minimum 8"x16" tall concrete beam or solid-grouted masonry foundation continuous below the perimeter of the greenhouse walls and 16"x16"x16" footing at each 'PRO 20661' portal columns. In addition to the 76-page standard greenhouse assembly manual 'Kathedral' version 2023.1, a 'PRO 210' type foundation connection is required to be installed at each vertical wall member, and located at 750mm on-center around the perimeter of the greenhouses.

If you have any questions regarding the matters addressed, or if additional information is required, please do not hesitate to contact us. We appreciate the opportunity to be of service.

Respectfully Submitted,
Hollingsworth Pack

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