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structural engineering
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**Structural Certification Letter**
Modern Greenhouse
Manufactured by Janssens AluSystems in Belgium

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Hollingsworth Pack has performed a structural analysis of the Modern 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 size of the greenhouse justifies consideration as Risk Category I in the 2021 International Building Code.

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

Greenhouse M23 (7'-9" x 10'-2"):
Wind Load: 140 MPH (3-second gusts), Exposure C, Risk Category I
Snow Load: 45 PSF (ground-snow load), 22 PSF (sloped roof snow loads), Risk Category I
Roof Live Load: 12 PSF

Greenhouse M34 (10'-2" x 15'-0"):
Wind Load: 120 MPH (3-second gusts), Exposure C, Risk Category I
Snow Load: 30 PSF (ground-snow load), 15 PSF (sloped roof snow loads), Risk Category I
Roof Live Load: 12 PSF

Greenhouse M36 (10'-2" x 15'-0"):
Wind Load: 105 MPH (3-second gusts), Exposure C, Risk Category I
Snow Load: 30 PSF (ground-snow load), 15 PSF (sloped roof snow loads), Risk Category I
Roof Live Load: 12 PSF

Our structural analysis and conclusions also assume that the greenhouse is installed with a minimum 8"x24" tall concrete beam or solid-grouted masonry foundation continuous below the perimeter of the greenhouse walls. In addition to the 71-page standard greenhouse assembly manual 'Modern' version 2023.3, a 'PRO 210' type foundation connection is required to be installed

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at each vertical wall member, and located at 738mm 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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