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**Structural Certification Letter**

Helios Victorian Greenhouse Model 'VI 23', 'VI 34', 'VI 36' and 'VI 46'  
Manufactured by Janssens AluSystems in Germany

Hollingsworth Pack has performed a structural analysis of the Helios Victorian Greenhouse Model 'VI 23', 'VI 34' and 'VI 46' 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 4mm thick tempered glass panels.

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Based upon our analysis, we have concluded that the greenhouse as currently installed by Exaco Trading Co. is adequate to support the following loads per the 2018 International Building Code:

For Model 'VI-23':

Wind Load: 130 MPH (3-second gusts)  
Snow Load: 30 PSF (ground-snow load)  
Roof Live Load: 20 PSF

For Model 'VI-34':

Wind Load: 120 MPH (3-second gusts)  
Snow Load: 25 PSF (ground-snow load)  
Roof Live Load: 20 PSF

For Model 'VI-36':

Wind Load: 115 MPH (3-second gusts)  
Snow Load: 25 PSF (ground-snow load)  
Roof Live Load: 20 PSF

For Model 'VI-46':

Wind Load: 115 MPH (3-second gusts)  
Snow Load: 25 PSF (ground-snow load)  
Roof Live Load: 20 PSF

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Our structural analysis and conclusions 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. In addition to the 61-page standard greenhouse assembly manual 'Helios Senior – Master' dated April 2017, 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. Knee brace scrolls must be installed at mid bay for 'VI 23', 'VI 34' and 'VI 36' model and must be installed at every bay for 'VI 46' model.

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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Structural Engineer