

EXTERIOR AUDITORIUM ROOF City of Sherbrooke

Designed, built in the workshop and installed in 2010 by Scène Éthique, the city of Sherbrooke's exterior auditorium, Place Nikitotek, hosts renowned artists every summer. In the spring of 2015, in order to maximize the use and the economic potential of this fabulous site, the City of Sherbrooke mandated Scène Éthique to design, build and install a roof covering the grandstands.

Since the auditorium is a fully integrated installation with its main feature being the possibility to dismantle it and reinstall it anywhere, it was mandatory that the roof and its structure have the same properties. Scène Éthique's expertise in designing such structures was harnessed once again as it was when designing the auditorium back in 2010. The existing structure which holds the stage and the grandstands did not have the required capacity to support the new roof so an independent structure had to be built. Minor adjustments were required to the grandstands and access ramps in order to integrate the new structure smoothly. The base of the new structure is made up of large concrete blocks sitting above ground that are used as main anchorage for the pillars. The columns vary in height between 26 feet and 36 feet in order to give the roof the required pitch. These pillars support 4 giant trusses measuring 104 feet

long, 32 inches wide and 72 inches high that are also used as catwalks. These trusses allow the producers of the various shows to have access to better positioning for lighting, sound or projection requirements. The roof surface is comprised of 42 prefabricated sections covered in sheet metal, these sections can be individually dismantled and installed. The total surface of the roof is 8,320 square feet (80' X 104') and its total load capacity is 320,000 pounds.

Scène Éthique installed the structure and the roof in a span of 3 weeks with 4 men, 2 certified riggers and the proper lifting equipment including a 130 tons crane. The installation was fairly complicated as 2 high voltage lines surround the site on 2 sides. This project as well as the original construction project in 2010 demonstrates the ability for Scène Éthique to successfully undertake some very large projects.



One of the trusses on the ground



Installing the pillars



Installing the trusses



Roof sections installation



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