



SOUTHERN AFRICAN INSTITUTE
OF STEEL CONSTRUCTION



Cadcon (Pty) Ltd

Eastgate Solar Phase 2

THE PROJECT BRIEF

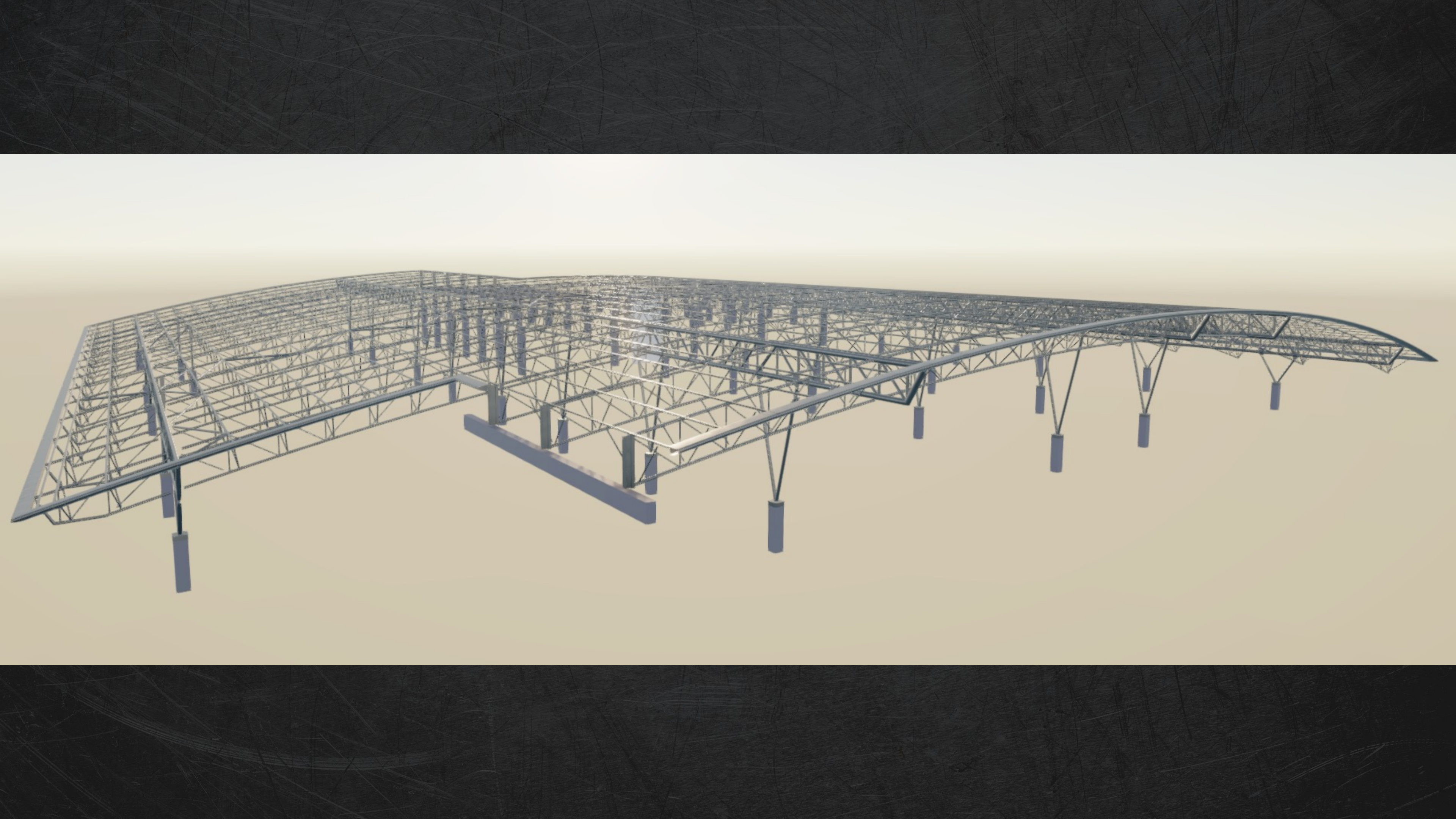
CLIENT: Liberty 2 Degrees

ARCHITECTS: Batley Partners

ENGINEER: Zutari

MAIN CONTRACTOR: Concor Construction (Pty) Ltd







THE PROJECT OVERVIEW



PROJECT OVERVIEW

In 2020, Eastgate Shopping Centre in Bedfordview, embarked on a Solar Power installation to reduce its overall energy consumption (this was Phase 1).

Phase 2 commenced in 2023, to add additional power generation to the rooftop parking. Covering 28 100sqm (roughly 4 football fields), Eastgate Mall has close to 13 675 solar panels, equating to 35.04% of the energy the mall requires to run on a daily basis.

The structure has a two-fold purpose, namely to support the solar panels as well as provide covered parking on the rooftop level.



PROJECT OVERVIEW

STRUCTURAL STEELWORK

Project Completed: 2024

Steelwork Completed: 2023

Tonnage: 560t

Profiles used: Tubing & Plate work



PROJECT OVERVIEW

STRUCTURAL STEELWORK

Structural Engineer: Zutari

Steelwork Contractor: Cadcon (Pty) Ltd

Steel Detailer: Structech Detailers / Mondo Cane

Steel Merchant/s: Macsteel, BSI, Allied Steelrode, Garsin



FABRICATION

STEELWORK CONTRACTOR: Cadcon (Pty) Ltd

ERECTION / CONSTRUCTION / INSTALLATION

CONTRACTOR: Leibrandt Erectors / GSE

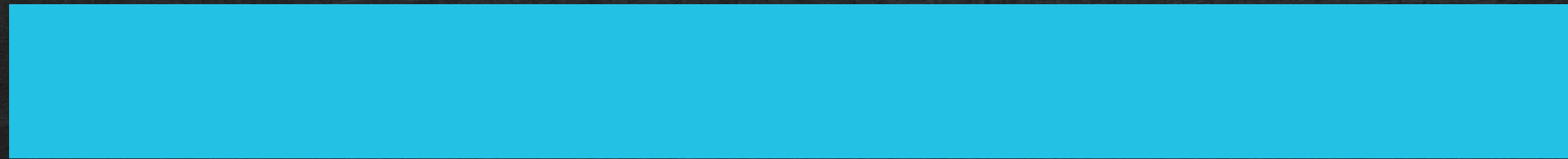






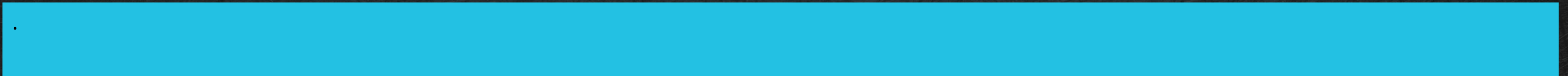


CHALLENGES AND SOLUTIONS



- Working in a live shopping mall where we needed to minimize disruptions to the patrons.
- Moving material around from a central off-loading position.
- Every single truss had radiused top and bottom chords.

THE BENEFITS OF STEEL IN THIS APPLICATION



- Architecturally pleasing to the eye.
- Lightweight structure, sustainable, energy conservation

WHAT WE'RE PROUD OF

