

# ARTMATRIX FACTORY

INDUSTRIAL NEW CONSTRUCTION [INC]

**OWNER/APPLICANT**

ARTMATRIX MANUFACTURING SDN BHD

**PROJECT ADDRESS**

LOT 32789, 32790, 32791, JALAN 5/1A, TAMAN PERINDUSTRIAN SELESA JAYA, 43300 BALAKONG  
SELANGOR MALAYSIA

**PROJECT DESCRIPTION**

The colourful and dynamic façade of Artmatrix Factory located in Balakong, Selangor, is owned by Artmatrix Manufacturing Sdn Bhd. A furniture manufacturer that distributes to both local and overseas market, it is the first Malaysian office furniture manufacturer to have a wide range of workstations bearing the Environmental Choice Australia (ECA) eco label that verifies according to the Good Environmental Choice Australia (GECA) standards. All the products manufactured by Artmatrix can be returned for recycling at the end of product life and will not be sent to landfill or incineration.

As a company that has a vision and mission in delivering environmentally friendly products and services, the Company took these same standards in the adaptive reuse of a 16 years old abandoned building in 2014 transforming it as a green building under GBI Industrial New Construction (INC). This further demonstrates their continued commitment to sustainability. Artmatrix Factory has successfully achieved its second Renewal Verification Assessment Certified Rating on the 27<sup>th</sup> September 2021.



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One interesting feature of the factory was the reuse of aluminium scrap to generate a façade that both shades and filters sunlight into the building. This and effects of zone lighting strategies has helped the energy efficiency within the factory. Other innovative green features include turbine ventilators installed in the high pitch roof factory, a combination of VRF central air-conditioning and big Ass fans for air cooling the factory. The effective building façade's low overall thermal transfer value (OTTV) of  $38.72 \text{ W/m}^2$  makes an incredible difference to the cooling load within the building. All in all the factory also achieves a commendable Building Energy Intensity (BEI) of  $39 \text{ kWh/m}^2/\text{yr}$ .

Not only does the factory and warehouse use Low energy T5 lamps, individual meters are installed to monitor the energy consumption. Low VOC paint, green label timber flooring and fibreboard ceiling with recycled content are used to minimize air pollutants in the building. The factory also provides breakout spaces to ensure health and well-being of staff are prioritised.

To further reduce the travel carbon footprints, bicycle racks for cyclists and carpool parking space are provided for employees. Artmatrix Manufacturing has been taking a serious stand in reducing carbon footprint in its product development in attaining ISO 14001:2015 since 2010 and its continued building renewal certification.