



# Product Type Approval Certificate

Full / Provisional / Restricted

This certificate is issued to:

<b>Supplier name and address:</b>	Mosdorfer Graph Pty Ltd in Australia G.05/171 Union Rd, Surrey Hills VIC 3127 By ZIBO INSULATORS Zichuan district, Zibo city. Shandong province, P.R. China
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In respect of:

<b>Manufacturer:</b>	ZIBO INSULATORS
<b>Place of manufacture:</b>	China
<b>Product description:</b>	This is a porcelain post-type insulator that was previously used on the Sydney Trains rail network's Overhead Wiring (OHW) system, prior to the introduction of resin post-type insulators.
<b>Use approved for:</b>	TfNSW Heavy Rail Network 1500V DC and Metro

<b>Manufacturer:</b>	ZIBO INSULATORS
<b>Conditions of approval:</b>	<p>Due to discrepancies in the requirements for dry power frequency, tensile strength, and torsion strength between the current product specification and the legacy SRA specification, the following conditions must be met:</p> <ol style="list-style-type: none"> <li>1. Installation Responsibility:  Sydney Trains and other TAOs are responsible for ensuring that ZIBO insulators are installed only in areas where operational conditions remain within the manufacturer's specified limits.</li> <li>2. Dimensional Variations:  There are differences between the physical dimensions of the ZIBO insulators and the 452 fitting dimensions as shown in drawing EL0025717.</li> </ol> <p>Sydney Trains and other TAOs are responsible for sourcing appropriate fittings such as bolts and nuts that are compatible with the product, facilitate smooth installation, and do not reduce the insulator's creepage distance or compromise its intended electrical performance.</p> <p>As recommended in Sydney Trains' type approval submission, the performance of the insulator is to be reviewed six months post-installation, with a report submitted to AMB.</p>
<b>Limitations:</b>	This is a temporary type approval, pending submission and evaluation of a performance report six months after installation.

## Evaluating rail transport operator

<b>Name:</b>	Lidija Dumbaloska
<b>Position:</b>	Director Energy Networks & Systems, Asset Management Branch, Transport for NSW
<b>Signature:</b>	<i>L Dumbaloska</i>
<b>Date:</b>	17 April 2025

## Independent safety assessor

<b>Name:</b>	
<b>Position:</b>	
<b>Signature:</b>	
<b>Date:</b>	

## Independent technical reviewer

<b>Name:</b>	
<b>Position:</b>	
<b>Signature:</b>	
<b>Date:</b>	

**Product approval pack reference number:** fA16234992

## Annexure 1 [Drawings]

Fitting Number	Reference Drawing Number	Description
452/11	EL0876185	Zibo Insulator Drawing number 4141AX. Drawing is attached to the Type Approval submission document by Sydney Trains.