Civil Engineering and Transportation Inspection Center, South China University of Technology

Mechanical Properties Testing Report

Entrustment Number:WBa20250423002 Report Number: BB1JZL-20250032 This report [illegible] of 3

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Entrusting Party Shenzhen Aodeke Optoelectronics Co., Ltd Sample Collection Date 2025.4.23

project name / Test date 2025.4.23

Sample Name Aluminum Alloy Quick-Install Assembly Type Flood Protection Panel Report Date 2025.5.26 Manufacturer Aodeke Optoelectronics Co., Ltd Sampling Witnessing f

Evaluation Basis JGJ 8-2016,GB/T 50344-2019,GB/T 232-2024,T/CHES 25-2019,GB50429-2007

Project	Technical requirement	Experimental data		
Head height (m)	—	0.4	0.8	1.2
Sample Number		WBa20250423002a1		
Brand name, specifications	—	6063-T6、7000mm×1200mm×40mm		
Column 1 Stress (MPa)	≤215	2.43	12.74	33.72
Column 2 Stress (MPa)	≤215	1.97	12.07	32.14
Water deflector stress (MPa)	≤215	3.79	22.18	48.23
Column 1 deflection (mm)	≤5	0.02	0.52	1.25
Column 2 deflection (mm)	≤5	0.06	0.47	0.97
Leakage rate (m^3/min)	—	—	0.018	0.030
Inspect the conclusion	The maximum deflection of Column 1 and Column 2 shall not exceed 5 mm (1/200 of the span length); the stresses in Column 1, Column 2, and the water barrier plate shall all be less than 215 MPa, thereby satisfying the requirements.			
Remarks	The detailed drawing of the flood prevention baffle structure and the measurement point layout diagram are shown in the appendices on pages 2 and 3 of this report.			

sign and issue： Take the exam Review: V. Hengchang trial： rainy season

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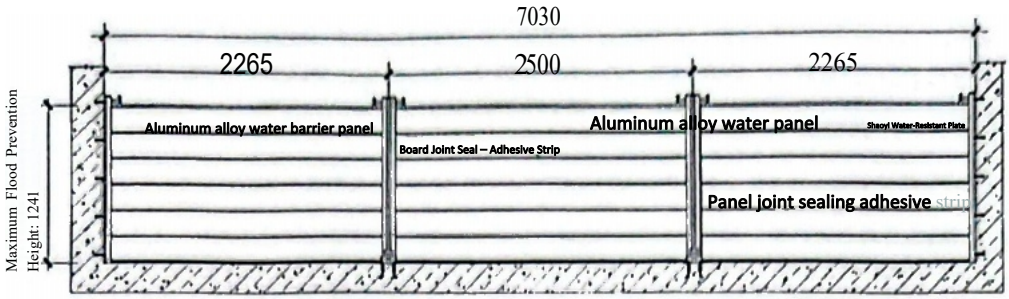


Figure 1: Front Elevation View of the Flood Prevention Baffle

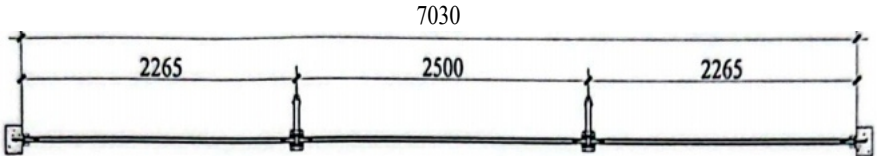


Figure 2 Flood Prevention Baffle Plan View

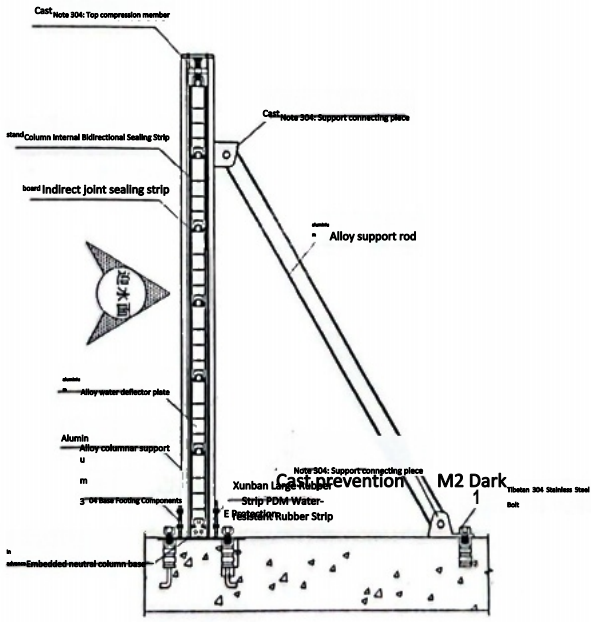


Figure 3: Cross-Sectional View of the Flood Prevention Baffle

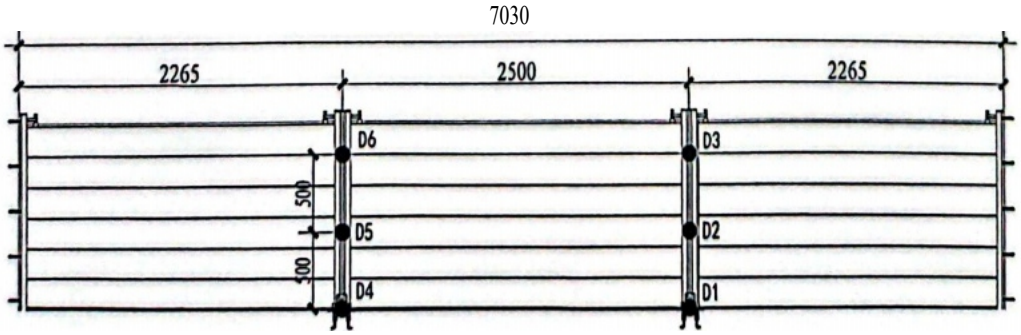


Figure 4: Displacement Measurement Point Layout Diagram

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The scanning App used by 300 million people

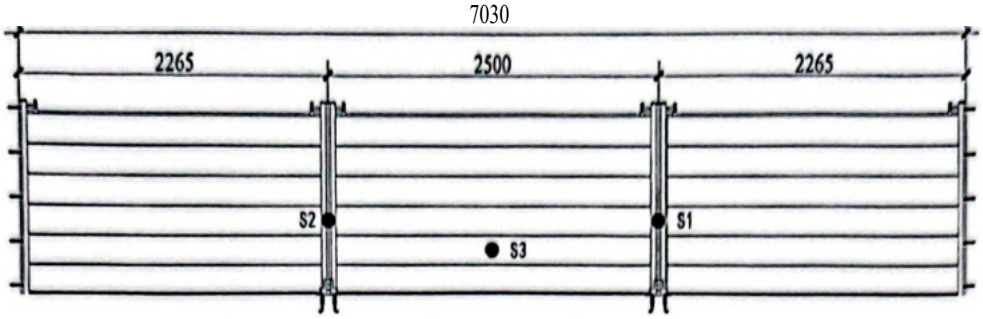


Figure 5: Strain Measurement Point Layout Diagram

The scanning App used by 300 million people