CITY OF LOS ANGELES

CALIFORNIA

DEPARTMENT OF BUILDING AND SAFETY 201 NORTH FIGUEROA STREET LOS ANGELES, CA 90012

JAVIER NUNEZ PRESIDENT

BOARD OF

BUILDING AND SAFETY

COMMISSIONERS

ELVIN W. MOON VICE PRESIDENT

JOSELYN GEAGA-ROSENTHAL LAUREL GILLETTE GEORGE HOVAGUIMIAN



OSAMA YOUNAN, P.E.
GENERAL MANAGER
SUPERINTENDENT OF BUILDING

JOHN WEIGHT EXECUTIVE OFFICER

Sustainable Technologies, LLC 1101 National Drive, Suite B Sacramento, CA 95834

Attn: Erica Lindstrom (530) 392-1587

IronRidge, Inc. 28357 Industrial Blvd Hayward, CA 94545

Attn: Yann Schwarz (510) 225-0973

RESEARCH REPORT: RR 26185

Expire: January 1, 2025 Issued Date: May 1, 2023 Code: 2020 LABC

GENERAL APPROVAL -Renewal - Facet/Flat Roof Attachment System

DETAILS

The Sustainable Technologies Facet / IronRidge Flat Roof Attachment (FRA) is an aluminum alloy plate attachment, in compliance with JIS-H5302 Grade ADC12 (AA Grade 384 / ASTM B85 Grade SC114A), used for connecting equipment to the rooftop of a building or structure. The product is available under two different brand names, the "Facet" and the "FRA". The Facet / FRA is attached through the roof surface with approved fasteners in compliance with 2020 LABC, manufacturer published installation instructions and this general approval. The optional Facet/FRA flashing cover provides a positive attachment for single-ply, asphalt, and/or coated flat roof surfaces.

Ultimate tension and shear loads for the plate system are specified below. A factor of safety of 3.0 shall be applied to the ultimate loads shown. No increase for short-term loading shall be permitted.

Ultimate Tensile Load = 12,777 lbs Ultimate Shear Load = 6,796 lbs

> RR 26185 Page 1 of 3

The approval is subject to the following conditions:

- 1. The Facet / FRA Rooftop Attachment System must be installed in accordance with the manufacturer's published installation instructions, the 2020 Los Angeles Building Code and this general approval. A copy of the manufacturer's installation instructions shall be available at the job site.
- 2. The capacity of the Facet/Flat plate fasteners and existing structure to support any additional imposed loads is beyond the scope of this general approval. The attachment of any equipment to the Facet plate is beyond the scope of this general approval.
- 3. Calculations demonstrating that the applied loads are less than the maximum allowable loads shall be submitted to the Department for each project. The calculations shall be prepared by a licensed engineer or architect registered in the State of California.
- 4. Details of the Facet/Flat plate attachment to the roof structure shall be submitted to the Department for review for each project. The details shall be prepared by a licensed engineer or architect registered in the State of California.
- 5. The Facet/Flat plate is manufactured under a quality assurance program with inspections by Intertek.
- 6. The Facet/Flat plate attachment system shall be identified with the manufacturer's name (Sustainable Technologies/IronRidge), trade name of the products (Facet/Flat Plate), and the Los Angeles Research Report Number (LARR 26185) on the product packaging.

Sustainable Technologies, LLC/IronRidge, Inc. RE: Facet/Flat Roof Attachment System

DISCUSSION

The report is in compliance with the 2020 Los Angeles City Building Code.

The approval is based on tests and criteria on file with the Department.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

Addressee to whom this Research Report is issued is responsible for providing copies of it, <u>complete with any attachments indicated</u>, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

ELICENE DADDEAN CL. C

EUGENE BARBEAU, Chief Engineering Research Section 201 N. Figueroa St., Room 880 Los Angeles, CA 90012

Phone: 213-202-9812

Email: engineering-research@lacity.org

EB RR 26185 TLB2300078 04/25/2023

Attachment: Facet/Flat Plate Cut Sheets (2 Pages)