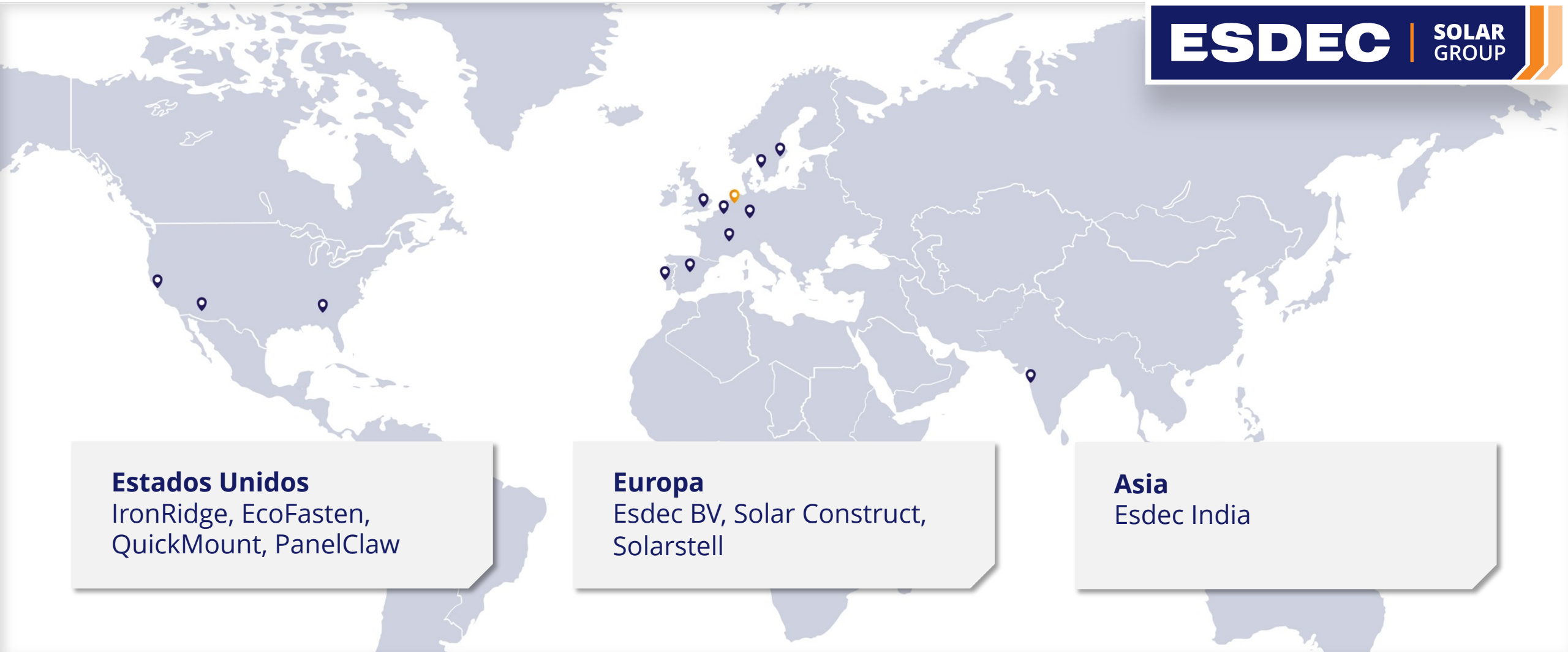




ESDEC

INNOVATIVE MOUNTING SYSTEMS

**COMO ACELERAR A
INSTALAÇÃO DE UM
PROJETO FOTOVOLTAICO DE
LARGA ESCALA?**



Estados Unidos

IronRidge, EcoFasten,
QuickMount, PanelClaw

Europa

Esdec BV, Solar Construct,
Solarstell

Asia

Esdec India



CAGR 36%
2016-2020



> 11 GWP
Installed with Esdec systems



Top Supplier



> 115 FTE
In Europe



OS NOSSOS CLIENTES



EPC

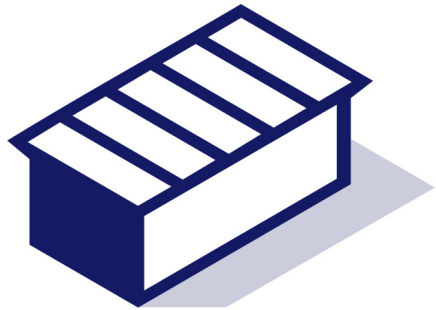


Distribuição
> 50 partners
in Europe



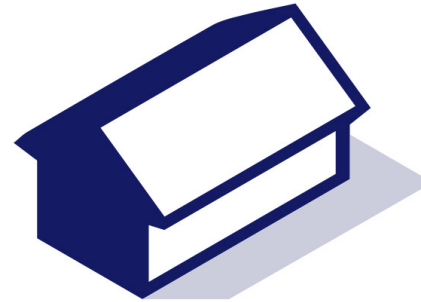
Instaladores

Especialistas em sistemas de montagem para módulos fotovoltaicos em telhados, planos e inclinados.



FLATFIX

FLAT ROOF



CLICKFIT

PITCHED ROOF

Rapidez & Qualidade

Módulos fotovoltaicos na cobertura
sem riscos

Fiabilidade

Investimento contínuo em testes,
investigação e desenvolvimento

Inovação

Liderança no produto através da
inovação constante



A aceleração da transição energética é necessária.

A instalação de projetos fotovoltaicos em larga escala é necessária para atingir esta meta!

FATORES CRÍTICOS DE SUCESSO

DESIGN SÓLIDO E COM QUALIDADE DO SEU PROJETO FOTOVOLTAICO

O que fazer e o que não fazer

SISTEMA DE MONTAGEM INTELIGENTE E FIÁVEL

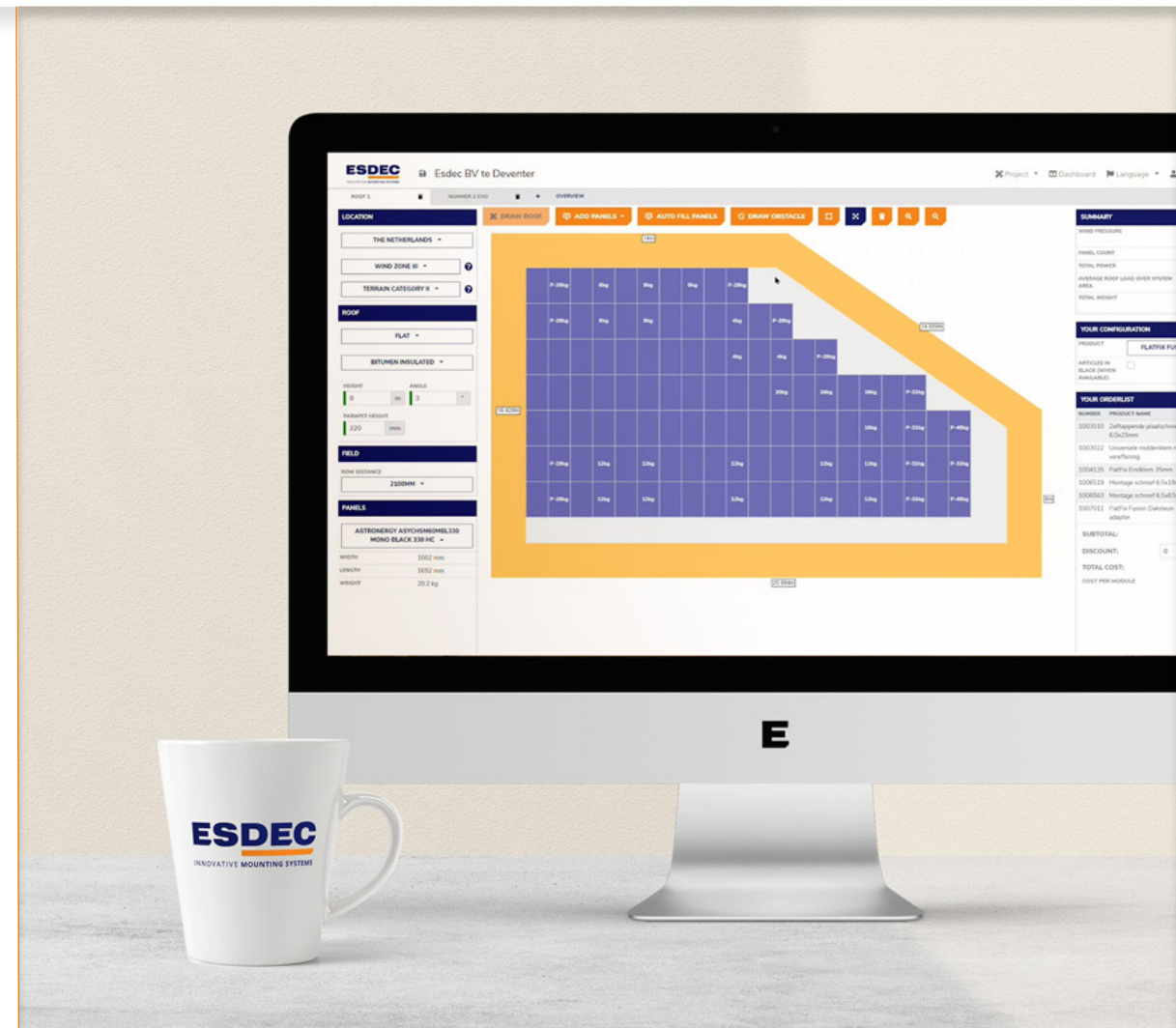
À prova de futuro

DURABILIDADE DO SISTEMA

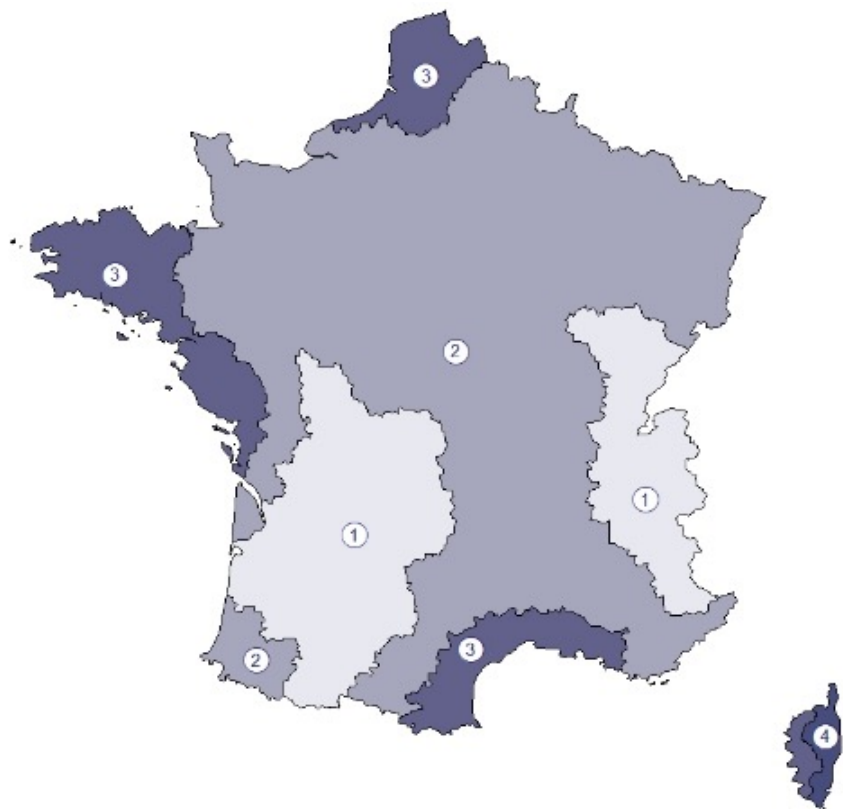
Fiabilidade com testagem intensiva

DESIGN SÓLIDO DO PROJETO FOTOVOLTAICO

- ✓ Aumento constante da fiabilidade
- ✓ Software ajustado às exigências de mercado (PEUTZ)
- ✓ Input correto dos parâmetros



DESIGN SÓLIDO: ZONA DE VENTO (& NEVE)



DESIGN SÓLIDO: CATEGORIA DE TERRENO



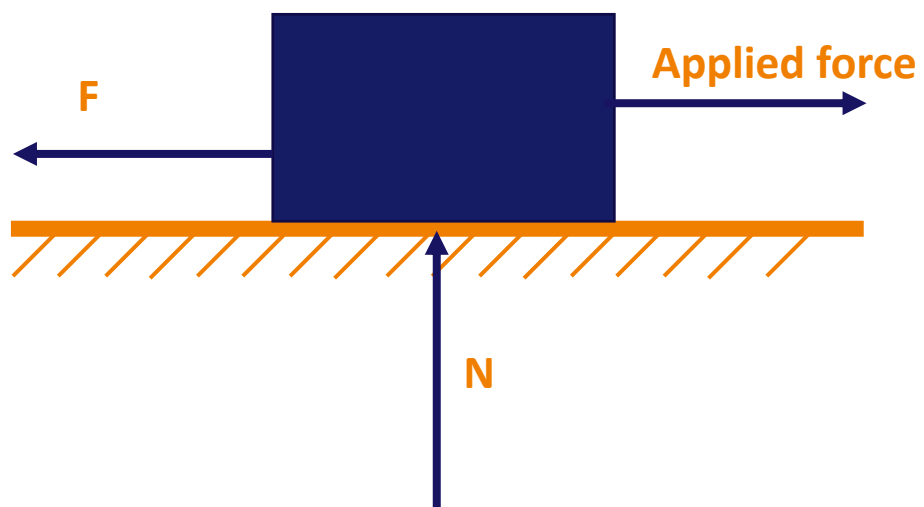
DESIGN SÓLIDO: ALTURA DO TELHADO





- drawing of a cross-section of
large Commercial flat roof with a curve / kink -

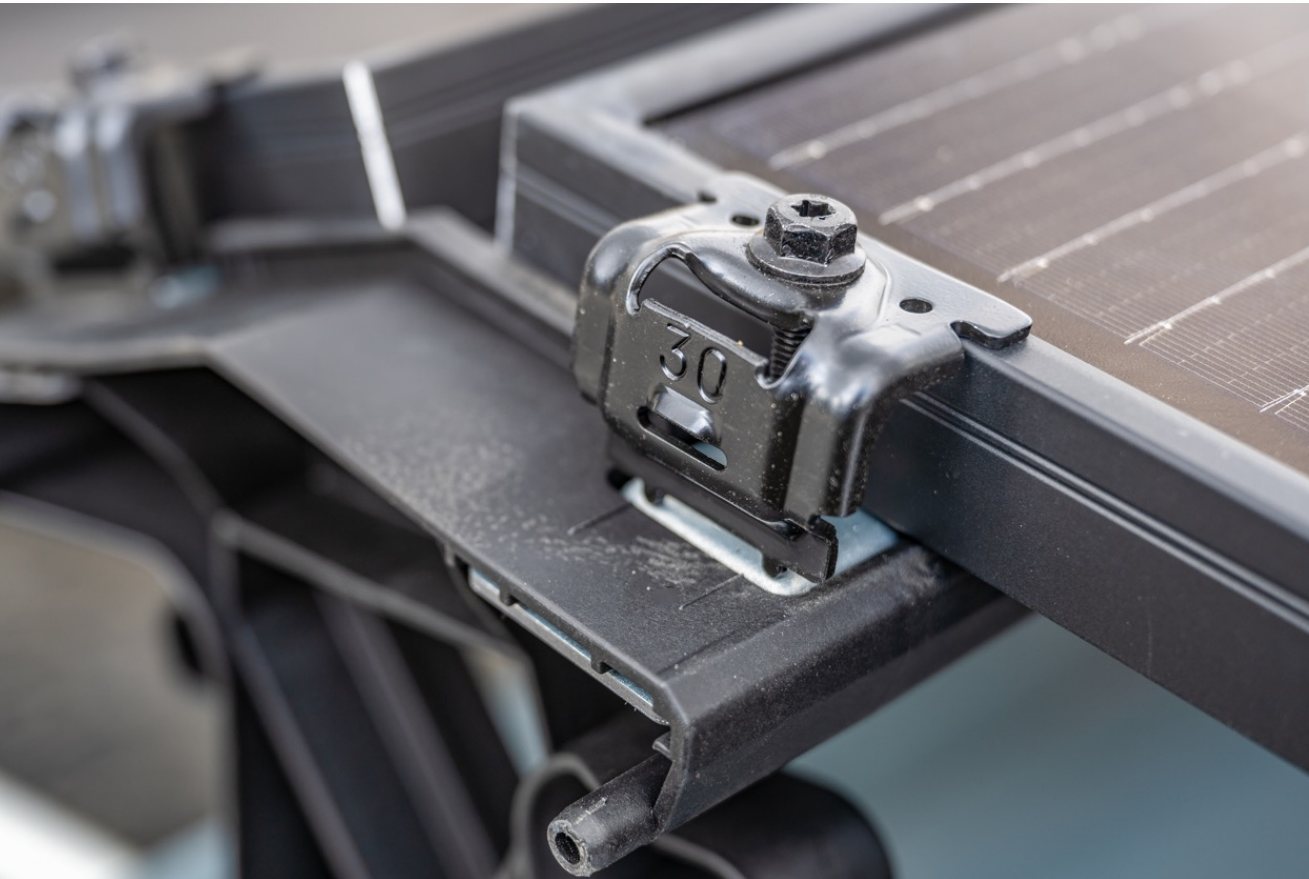
DESIGN SÓLIDO: MEMBRANA DO TELHADO



DESIGN SÓLIDO: OBSTÁCULOS

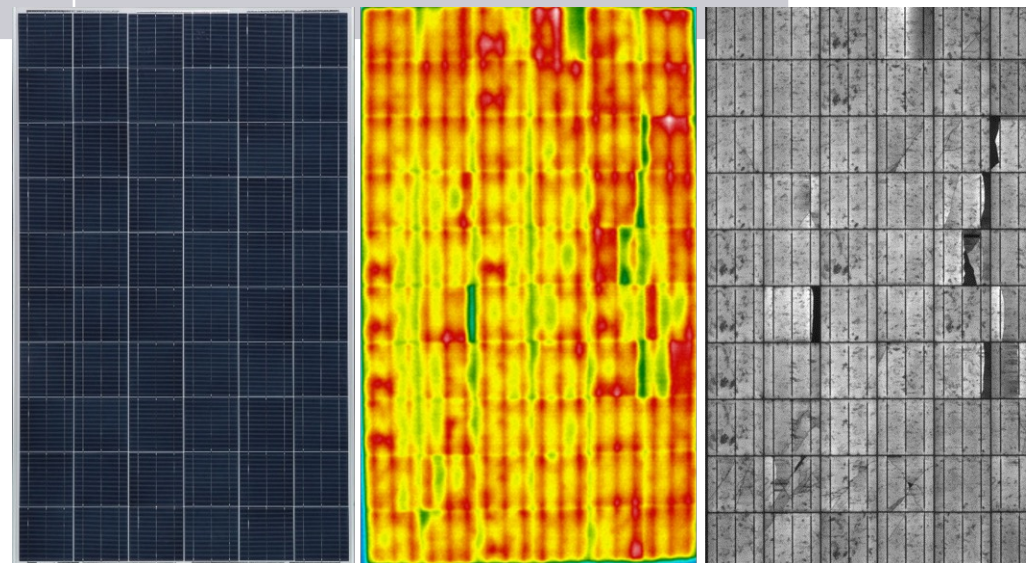


DESIGN SÓLIDO: MÓDULOS FOTOVOLTAICOS

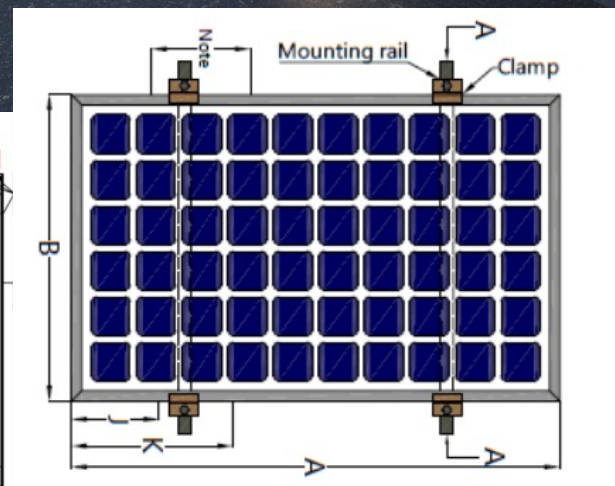
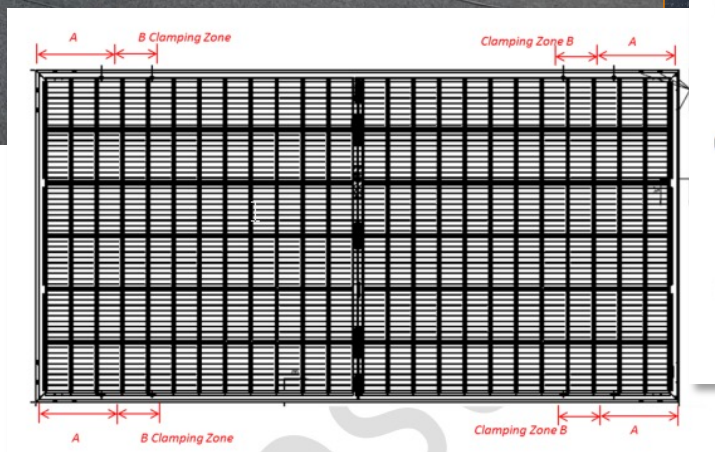
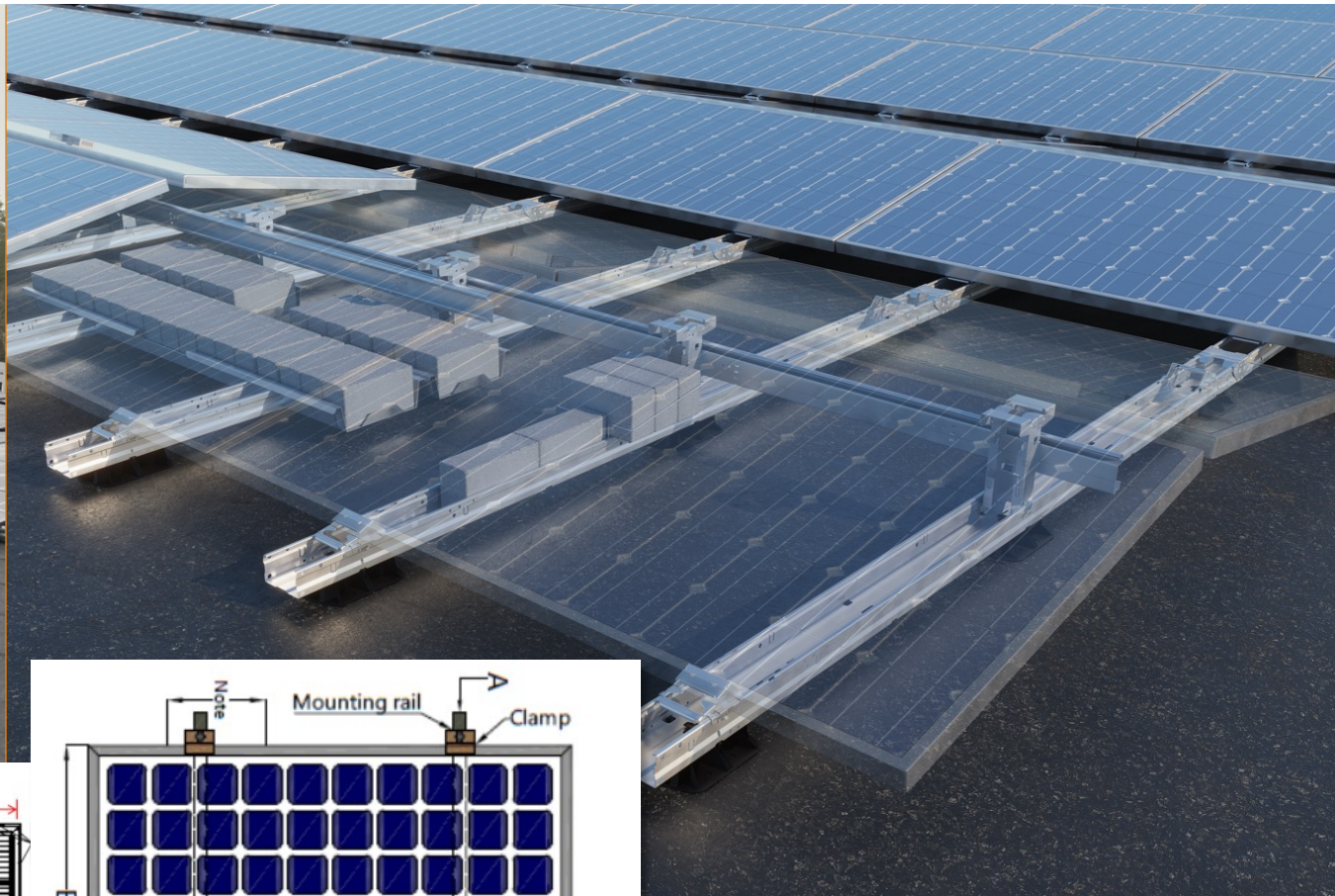


SISTEMA DE MONTAGEM INTELIGENTE E FIÁVEL

Wafer	Tamanho	Tamanho indicativo módulo(superfície limite de 2m2)	Tamanho indicativo módulo
M6	166x166mm	+/- 1038mm x 1755mm (350-400 Wp)	+/- 1038 x 1924 (385-425 Wp) +/- 1048 x 2108 (435 – 465 Wp)
M10	182x182mm	+/- 1134mm x 1720mm (380-440 Wp)	+/-1134mm x 2073mm (480-505 Wp) +/- 1134mm x 2278mm (520-580 Wp)
M12	210x210mm	+/- 1098mm x 1760mm (385-450 Wp)	+/- 1098mm x 2176mm (505 Wp) +/- 1098mm x 2384mm (530-580 Wp)



FIXAÇÃO NO COMPRIMENTO

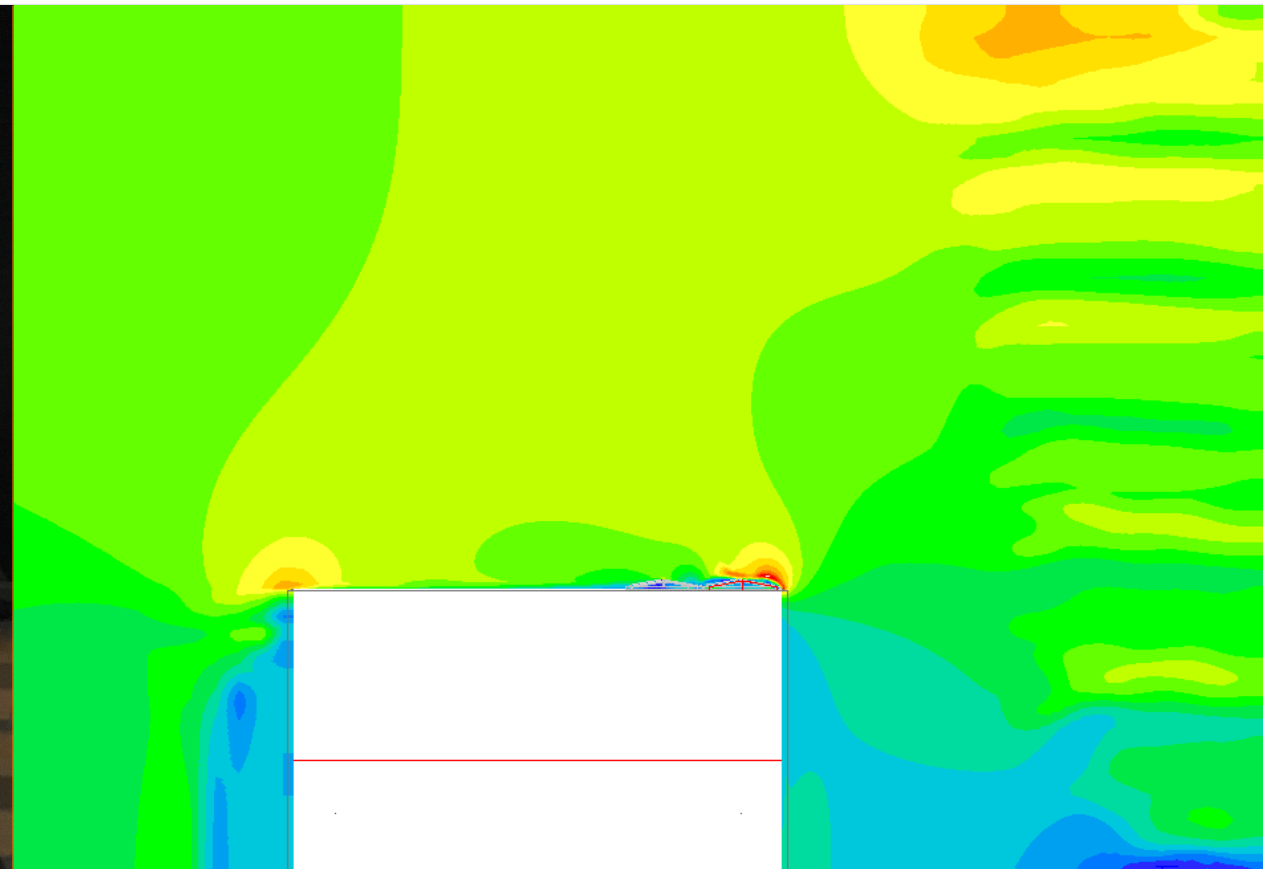
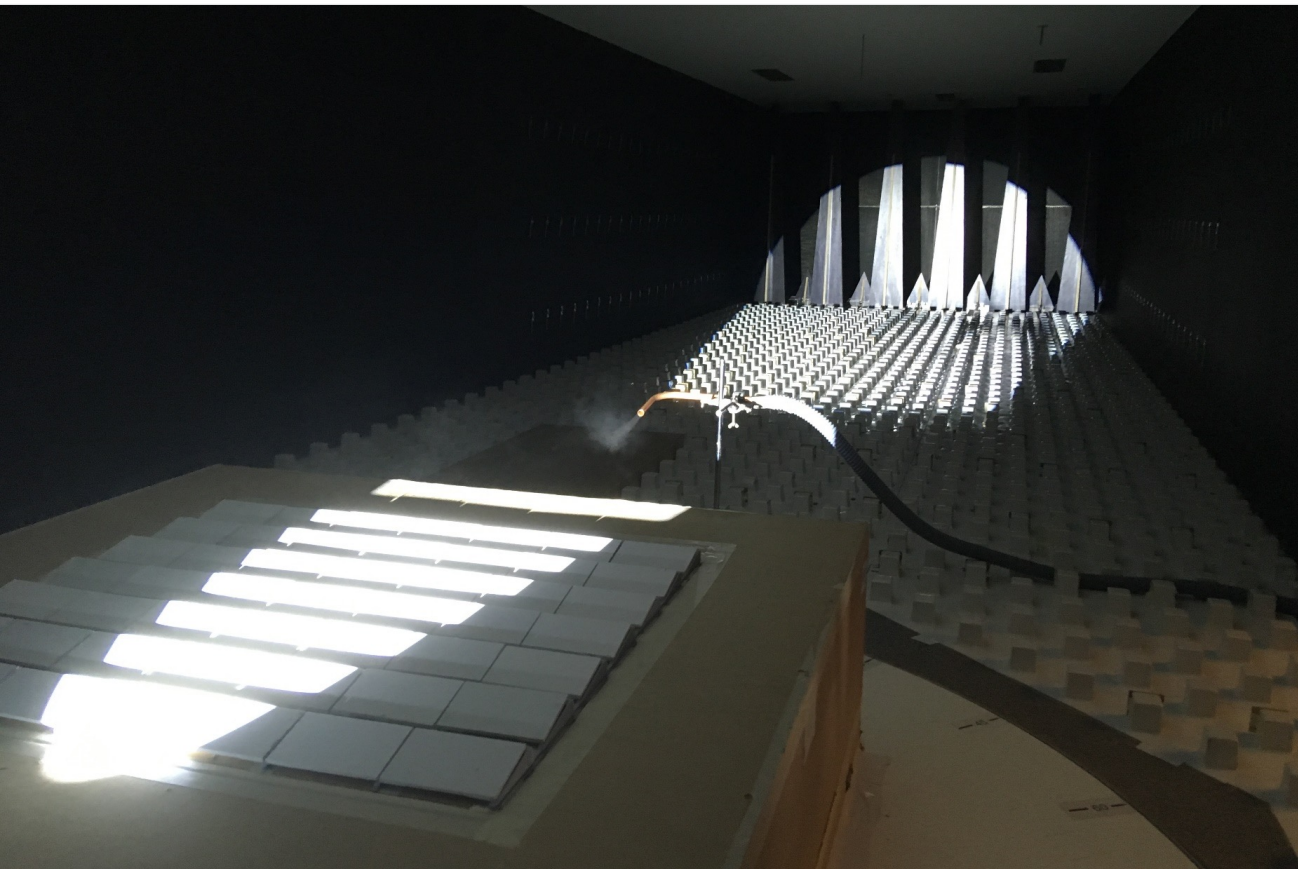


Certificados de garantia? Serão mesmo fiáveis?

- ✓ Testagem
- ✓ Certificação
- ✓ Estabilidade financeira da entidade que emite o certificado



DURABILIDADE DO SISTEMA – TÚNEL DE VENTO



DURABILIDADE DO SISTEMA – TESTE MECÂNICO DE ELEVAÇÃO



PEUTZ

Certificate

subject: ESDEC Calculator FlatFix Fusion 2021
date: February 7th, 2022
reference: MvU/MvU/W 15389-26-NO-001
from: ir. G.M. van Uffelen
to: Esdec B.V.

This certificate concerns an evaluation of the ESDEC Calculator for ballast calculations for the FlatFix Fusion system, that is depicted in the photographs down here.



This is based on the specific wind tunnel research conducted by Peutz bv into the wind load on the Esdec FlatFix Fusion mounting system for flat roofs. This dedicated wind tunnel study, specifically for this system, was carried out by us in 2018. The lower left photograph shows the scale model in our wind tunnel.



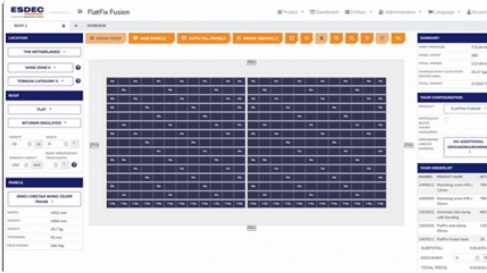
Based on mechanical lift tests carried out by Esdec with improved system connections in the summer of 2021, see right photograph up here, the actual degree of interconnection of the systems was determined and processed by us into the wind tunnel data. These have been

peutz bv, postbus 66, 6585 zh mook, +31 85 822 86 00, mook@peutz.nl, www.peutz.nl kvk 12028033, conditions in accordance with DNR 2011, member NLingenieurs, btw NL004933837801, ISO 9001:2015

W 15389-26-NO-001 1

PEUTZ

incorporated in the aforementioned calculator of Esdec. A screendump has been depicted down here.



We hereby declare, after studying and testing the calculator, that Esdec does indeed use the wind tunnel measurements of FlatFix Fusion, which have been combined with the mechanical lift tests into the wind tunnel data, and that the results have been correctly and safely processed in the Esdec calculator. The approach and method used by Esdec when applying this calculator have been tested and approved by us in several reference projects.

Conformity: CUR Recommendation 103: 2005
NEN 7250: 2021
NEN-EN 1990: 2011
NEN-EN 1991-1-4: 2019

This certificate contains 2 pages

Mook,

W 15389-26-NO-001 2

DESIGN SÓLIDO DO PROJETO FOTOVOLTAICO

SISTEMA DE MONTAGEM INTELIGENTE E FIÁVEL

DURABILIDADE DO SISTEMA



Tiago Antunes
Sales Manager Portugal

00351964104113
t.antunes@esdec.com







BUILDING VALUE FOR SOLAR PROFESSIONALS

Esdec is a global leading supplier of solar mounting systems. Driven by our purpose of enabling the transition to sustainable solar energy for future generations, we offer our customers the most innovative and comprehensive products and services.

Since 2004, we provide solar mounting systems for all types of roofs, both residential and commercial, to installers, distributors and EPC companies. In addition, we also deliver engineering support and expert advisory services. Operating in more than 20 countries, our experts are dedicated to help customers transition to sustainable solar energy. More information on www.esdec.com

Esdec

T + 31 850 702 000
W www.esdec.com
M info@esdec.com

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