xM-3 QUATTRO-256S

STD 60 | STD 125 | BIO 120 | BIO 300

Designed for flat roofs—including green roofs, gravel roofs, and more—the Over Easy solar solution realizes energy production in a revolutionary way. The lightweight prefabricated VPV Units are easy to install and allow unobstructed access for inspection, maintenance, and repairs.

Our standard VPV-Unit is compatible with a wide range of flat roof materials. Its design supports healthy plant growth, promotes biodiversity, enhances water retention. The STD Foot 60 is designed for conventional flat roofs, while the BIO Foot 120 is engineered for green roofs such as sedum. For more specific applications, the STD Foot 125 is optimized for gravel roofs or regions with heavy snowfall.


STD 60


STD 125


BIO 120


BIO 300

MECHANICAL DATA	
Dimensions	STD60 foot : 1580x1489x309 mm BIO120 foot: 1580x1489x369 mm
Roof area covered per unit	2.31 m^2
Weight	Approx. 28.4 kg
Area load	Approx. 12.2 kg/m^2
Point Load	12.2-12.4 kg (139-141 N) per support foot. *The point load is distributed over the circular contact area of a single foot of 45 cm^2. The shortest spacing between feet is 39.5 cm.
Glass	2x3.2 mm tempered solar glass
Ground clearance by foot type	STD 60 Foot: 57 mm BIO 120 Foot : 117 mm

TECHNICAL AND LOGISTICAL SPECIFICATIONS	
OPERATING CONDITION	
Cell Technology	Silicon Heterojunction Solar Cells
Operation Temp.	-40 °C … + 85 °C
Design Load	1600 P, Safety factor 1.5 (2400 P)
Fire Safety Class	B
Junction Box	IP-68,4x1 bypass diode
Connectors	IP-68, DC Connectors IEC/UL certified
xM-3-QUATTRO-256S LOADING PER PALLET	
Measurement	2070 x 1600 x 1255 mm
Weight	766 Kg (909 Kg)
Packing Quantity	27 units (6.9kWp)

ELECTRICAL DATA	
Max. Power at STC (Pmax)	256 Wp
Power Tolerance	± 3 %
Bifaciality	95%
Max. Power Voltage (Vmpp)	32.96 V
Max. Power Current (Impp)	7.74 A
Open-circuit Voltage (Voc)	39 V ± 3 %
Short circuit Current (Isc)	8.04 A ± 3 %
Max. System Voltage (Vsys)	1000 V DC
Reverse current rating	20 A
Cable (Solar cable; 25 cm long)	4 mm^2
Electrical protection class	Class II
Temperature coefficient of Pmax	-0.240 %/K
Temperature coefficient of Voc	-0.220 %/K
Temperature coefficient of Isc	+0.040 %/K

CERTIFICATES

IEC / EN 61215-1:2021, IEC 61215-2:2021 / EN 61215-2:2021 IEC 61730-1:2023 / EN IEC 61730-1:2023 IEC 61730-2:2023 / EN IEC 61730-2:2023 / IEC 62790:2020 / CE

Pending: UL 61730-1:2022 / UL 61730-2:2022 / UL 3730:2014

Wind load calculations: NS-EN 1991-1-4, DS/EN 1991-1-4, DIN EN 1991-1-4,BS EN 1991-1-4, NEN EN 1991-1-4, SN EN 1991-1-4, ÖNORM EN 1991-1-4, ASCE 7-22, NBCC 2020

Intertek · IFE Institute for Energy Technology · Fraunhofer ISE · TÜVNORD

Over Easy
Solar

Get in Touch
Email : info@overeasy.no
Website : www.overeasy.no

Over Easy Solar

The VPV Unit

Designed for flat roofs and green roofs, the Over Easy Solar solution realizes energy production in a revolutionary way. The light-weighted PV-units can be easily installed on the roof and still enable full access for inspection, maintenance and repairs. The ST 60 modell is suitable for various material types of flat roofs. If your roof is covered with plants, Over Easy offers the BIO 120 modell optimised for green roofs, such as sedum. The modell enables plant thriving with solar installed and ensures biodiversity and water retention.

Green roof solution (BIO 120)

Partial shading by panels reduces heat by up to **10° Celsius** and evaporation on the green roof, preventing dry-out during long periods without precipitation

Benefits from the lower temperature of the green environment for increased energy yields of up to **17%**

You can install or **retrofit** your green roof with solar without perforating roofing membranes or structure

Our solar panels allow plants and wildlife to **thrive underneath**, while still capturing sunlight for energy

Flat roof solution (ST 60)

The lightweight system only adds **12 kg/m²**, making it easier to install on various types of roofs

The roof's reflection (Albedo) can increase energy production by more than **30%** on bright surfaces

Over Easy units give you **full access** to inspect, maintain and, if needed, repair the integrity of your flat roof

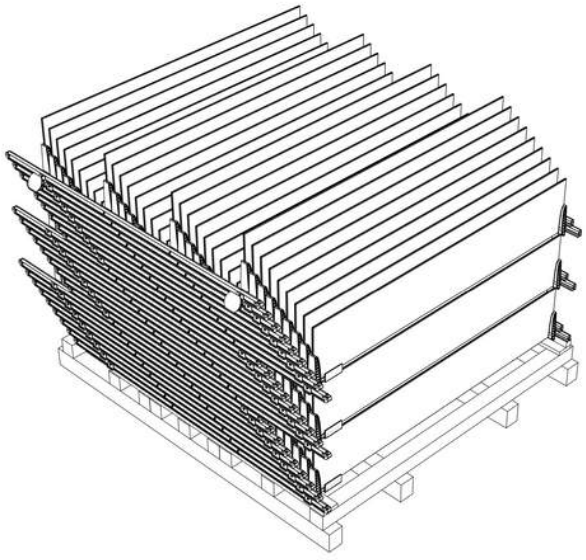
Low maintenance thanks to the vertical design, which prevents dust and snow from accumulating on the panel surface

Over Easy Solar

Installation

The innovative premanufactured vertical solar unit streamlines transport and installation, providing a quicker and more efficient alternative to conventional solar panels. This prefabricated design ensures seamless integration and rapid deployment, revolutionizing solar energy solutions.

- Easy to handle pre-assembled unit that integrates PV-modules, electrical cabling and mounting structure
- One pallet covers over 60 m² and provides 6.9 kWp
- Plug and play with integrated cable management
- No tools needed for installation
- Installation up to 10x faster with 15 min per kWp
- Easy planning and logistics with 27 units on a pallet



Over Easy Solar

Our footprint

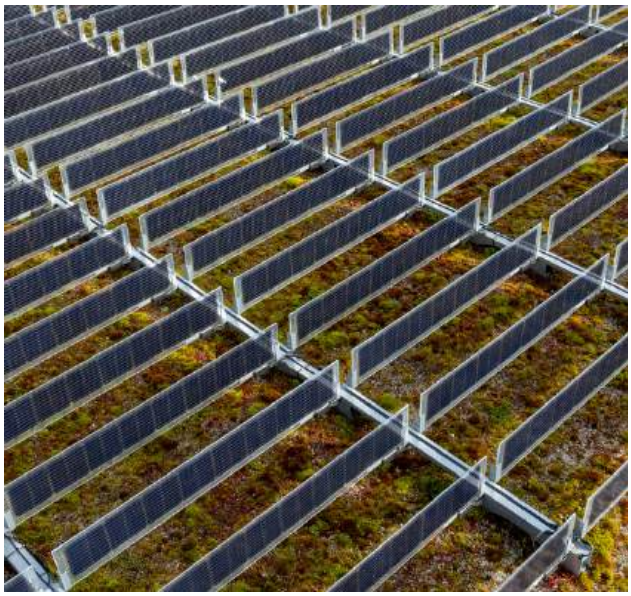
Over 50 installations and sales in 13 countries

Over Easy Solar

Løren Skole

Oslo, Norway

46.2 kWp | 206 Units | BIO 120



Over Easy Solar

Vollebek

Oslo, Norway

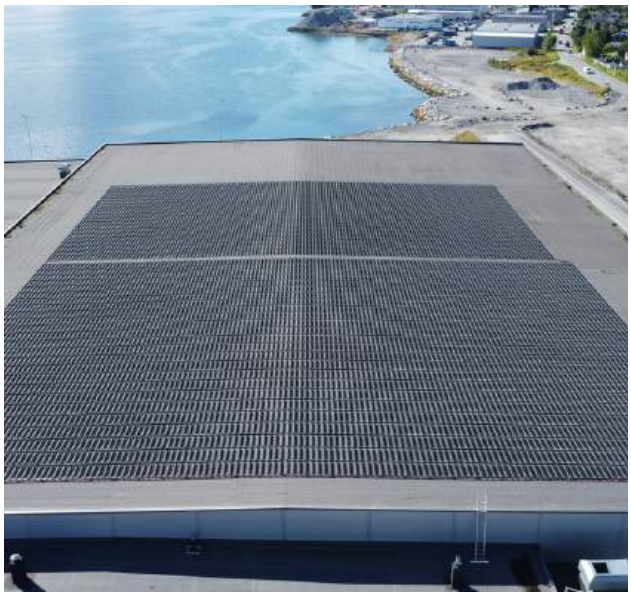
102.2 kWp | 511 Units | BIO 120

Over Easy Solar

Tromsøterminalen

Tromsø, Norway

320 kWp | 1600 Units | ST 60



Over Easy Solar

Ulleval Stadium

Oslo, Norway

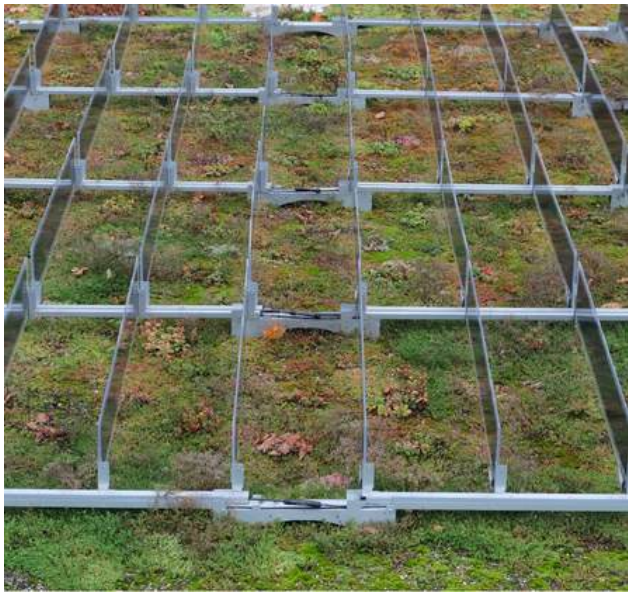
248.4 kWp | 1242 Units | ST 60

Over Easy Solar

Wolfsanger Feuerwehr

Kassel, Germany

19.8 kWp | 99 Units | BIO 120



Over Easy Solar

Lauenenweg

Thun, Switzerland

25.2 kWp | 126 Units | BIO 120

Over Easy Solar

Horwerstrasse

Luzern, Switzerland

20.8 kWp | 104 Units | BIO 120

Over Easy Solar

Nonnenpfad

Frankfurt, Germany

2.6 kWp | 13 Units | BIO 120

Over Easy Solar

Maccabiadelaan

Amstelveen, Netherlands

18.8kWp | 94 Units | BIO 120

Over Easy Solar

Bühlstrasse

Beinwil am See, Switzerland

9 kWp | 45 Units | BIO 120

Over Easy Solar

Industriestraße

Hard, Austria

7.2 kWp | 36 Units | BIO 120

Over Easy Solar

Lunteren

Netherlands

4 kWp | 20 Units | BIO 120

Over Easy Solar

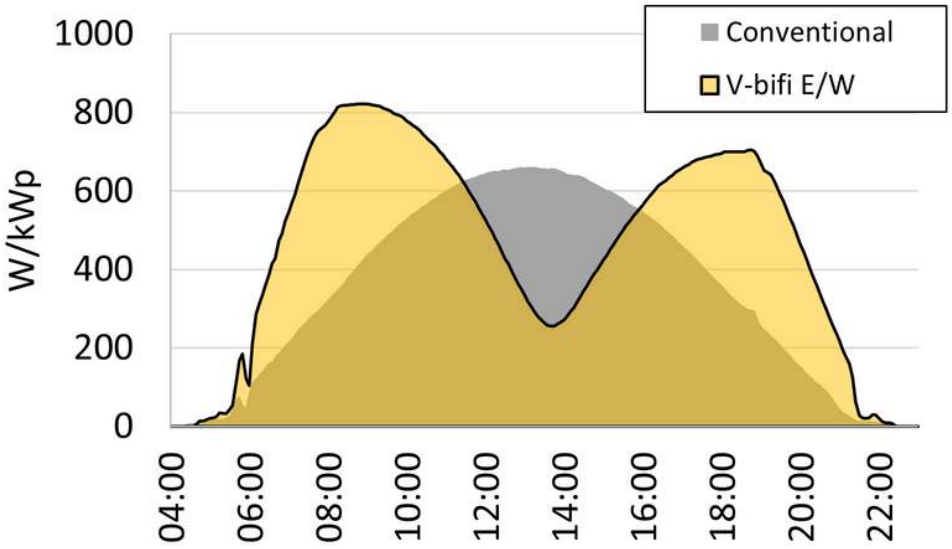
Nieuwegein

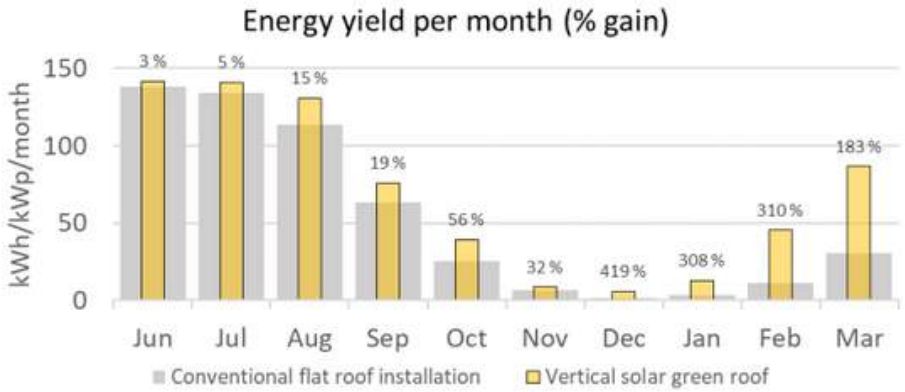
Netherlands

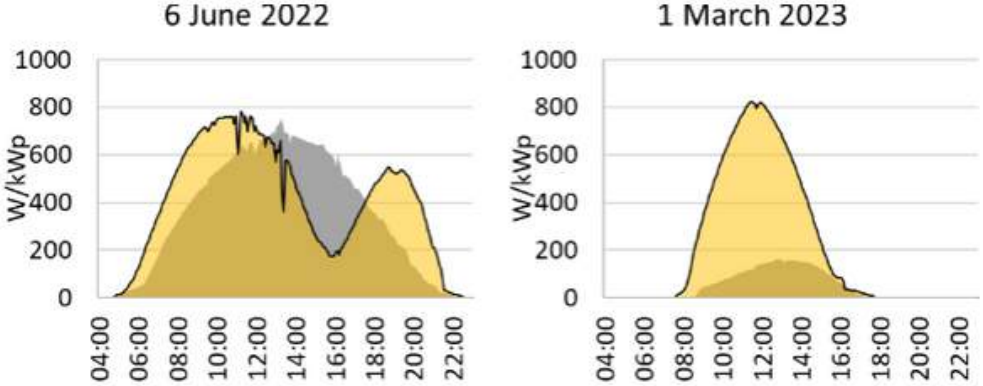
54.6 kWp | 273 Units | BIO 120

Energy Profile

The unique energy production profile with two peak production cycles a day, more productive hours during the year, and unmatched performance during winter and dusty conditions makes the Over Easy solution stand out compared to conventional solar energy systems! This design generates more energy in the morning and evening when electricity prices are higher and maximizes self-consumption.

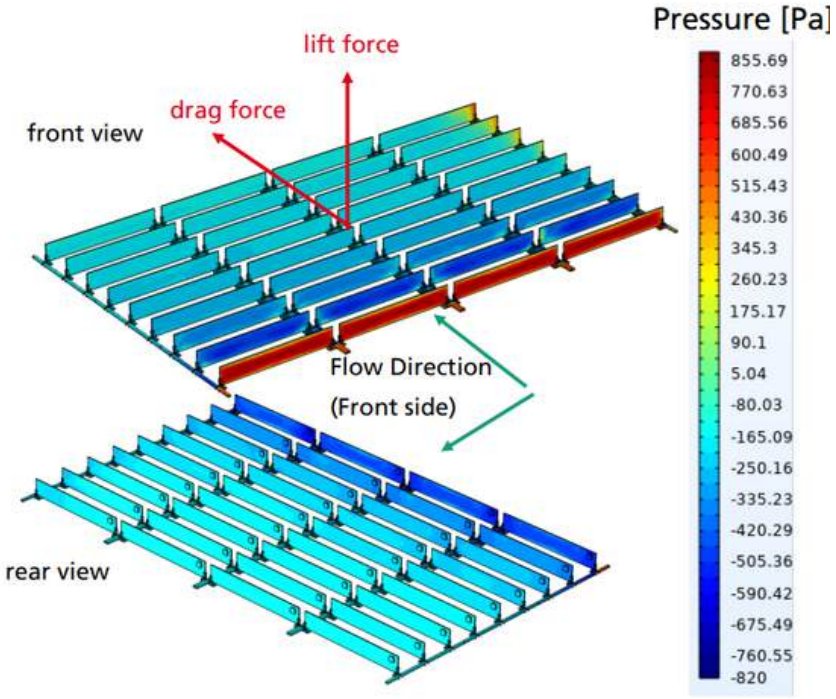




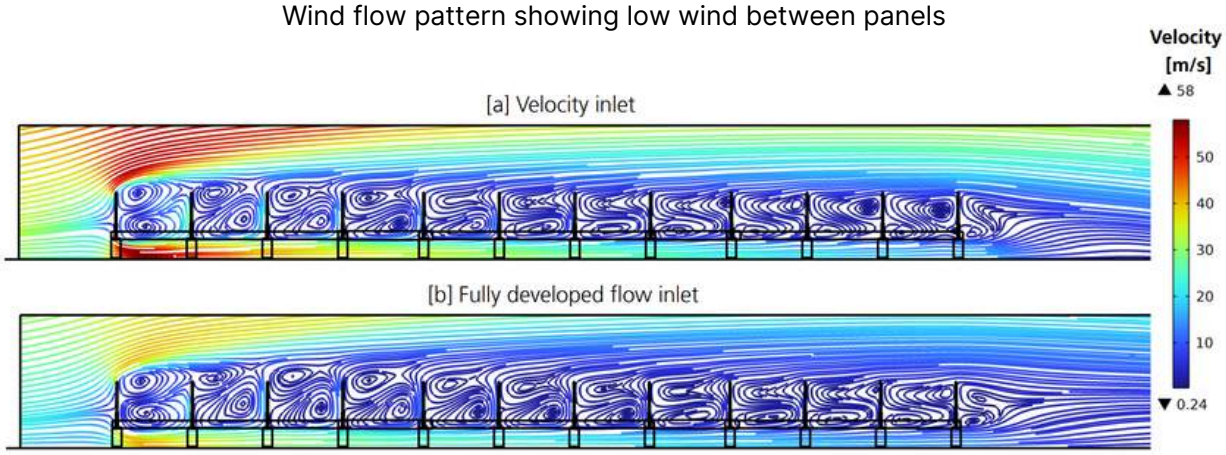


Wind Resistance

Our innovative solution eliminates the need for ballast and generates no lift force. Each project is meticulously calculated, taking into account the wind zone, terrain category, building dimensions, and PV array size. The system has been tested according to EN 1991-1-4 Wind Actions, the guidelines for actions on structures, in collaboration with the I.F.I. Institute for Industrial Aerodynamics and the Frauenhofer Institute .



Wind flow pattern showing low wind between panels



Element Proof

Our panels are designed for snowy climates, staying clear of snow for continuous energy production even in winter. Snow reflection can boost output by up to 400%, and their lightweight build minimizes roof load concerns. In dusty areas, the vertical design reduces energy loss and allows for natural cleaning with rain. Durable glass-glass modules also resist hail, offering reliable, low-maintenance performance.

Vertical panels stay snow-free and benefit from high albedo

Snow-covered panels clear themselves naturally and quickly

Fire Safety

The Over Easy solution significantly reduces the risk of fire spread. Unlike flat-panel systems, the vertical design of the VPV installation prevents flames from traveling underneath the panels and allows the roofing membrane to maintain its natural fire-resistant properties. As a result, the installation of Over Easy Solar panels does not increase fire risks on flat roofs, providing a safer solution for solar energy integration.

Fire test: Fire spread beneath low-angle panels but was contained with vertical ones.

Over Easy Solar

xM-3 QUATTRO-256S

ST60 | ST125 | BIO120 | BIO300

Designed for flat roofs—including green roofs, gravel roofs, and more—the Over Easy Solar solution realizes energy production in a revolutionary way. The lightweight prefabricated VPV Units are easy to install and allow unobstructed access for inspection, maintenance, and repairs.

Our standard VPV unit is compatible with a wide range of flat roof materials. Its design supports healthy plant growth, promotes biodiversity, and improves water retention. The ST Foot 60 is designed for conventional flat roofs, while the BIO Foot 120 has been developed specifically for extensive green roofs such as sedum installations. For intensive green roofs, Over Easy Solar offers the BIO Foot 300. For more specific applications, such as gravel roofs or regions with heavy snowfall, the ST Foot 125 provides an optimized solution.

ST 60

ST 125

BIO 120

BIO 300

MECHANICAL DATA	
Dimensions	ST60 foot : 1580x1489x309 mm BIO120 foot: 1580x1489x369 mm
Roof area covered per unit	2.31 m²
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OPERATING CONDITION	
Cell Technology	Silicon Heterojunction Solar Cells
Operation Temp.	-40 °C ... + 85 °C
Design Load	1600 P, Safety factor 1.5 (2400 P)
Fire Safety Class	B
Junction Box	IP-68,4x1 bypass diode
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xM-3-QUATTRO-256S LOADING PER PALLET	
Measurement	2070 x 1600 x 1255 mm
Weight	766 Kg (909 Kg)
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Power Tolerance	± 3 %
Bifaciality	95%
Max. Power Voltage (Vmpp)	32.96 V
Max. Power Current (Impp)	7.74 A
Open-circuit Voltage (Voc)	39 V ± 3 %
Short circuit Current (Isc)	8.04 A ± 3 %
Max. System Voltage (Vsys)	1000 V DC
Reverse current rating	20 A
Cable (Solar cable; 25 cm long)	4 mm²
Electrical protection class	Class II
Temperature coefficient of Pmax	-0.240 %/K
Temperature coefficient of Voc	-0.220 %/K
Temperature coefficient of Isc	+0.040 %/K

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Intertek IFI IFE Institute for Energy Technology Fraunhofer ISE TÜVNORD

Over Easy Solar

Sustainability

Sustainability is our primary concern, and it is why we founded the company. We have our feet on the ground, we personally inspect our suppliers' facilities, and we have clear guidelines on how our suppliers should source materials and inputs for manufacturing.

Tommy Engvik
CCO and co-founder

Contact us

Email : info@overeasy.no

Website : www.overeasy.no

Over **Easy** Solar AS

Disassembly Process

Removing VPV units from container and pallets after transportation

xM-2 QUATTRO-200S

rev. 1.3

Table of Contents

1 General information

This general manual provides important information relating to handling of VPV units. To ensure that the VPV units are disassembled correctly, please read the following instructions carefully before removing the pallets from the containers. The disassembly of the VPV units require professional skills and should only be performed by qualified professionals. Failure to follow these instructions may result in injury or property damage. This manual is valid for: **xM-2 QUATTRO-200S**.

One Pallet *Dimensions overview with units Included (33 VPV units):*

Length: 1.7 m
Width: 1.6 m
Height: 1.25 m
Weight: 1 t approx.

2 Clearing container

The pallets must be removed from the container with the use of a forklift. In case of stacked pallet with 33 VPV units, be aware that due to the short distance (**8 cm**) between the container and the top of the VPV units, the forklift must not lift the pallet too high. Contact between the container and the VPV units may result in property damage.

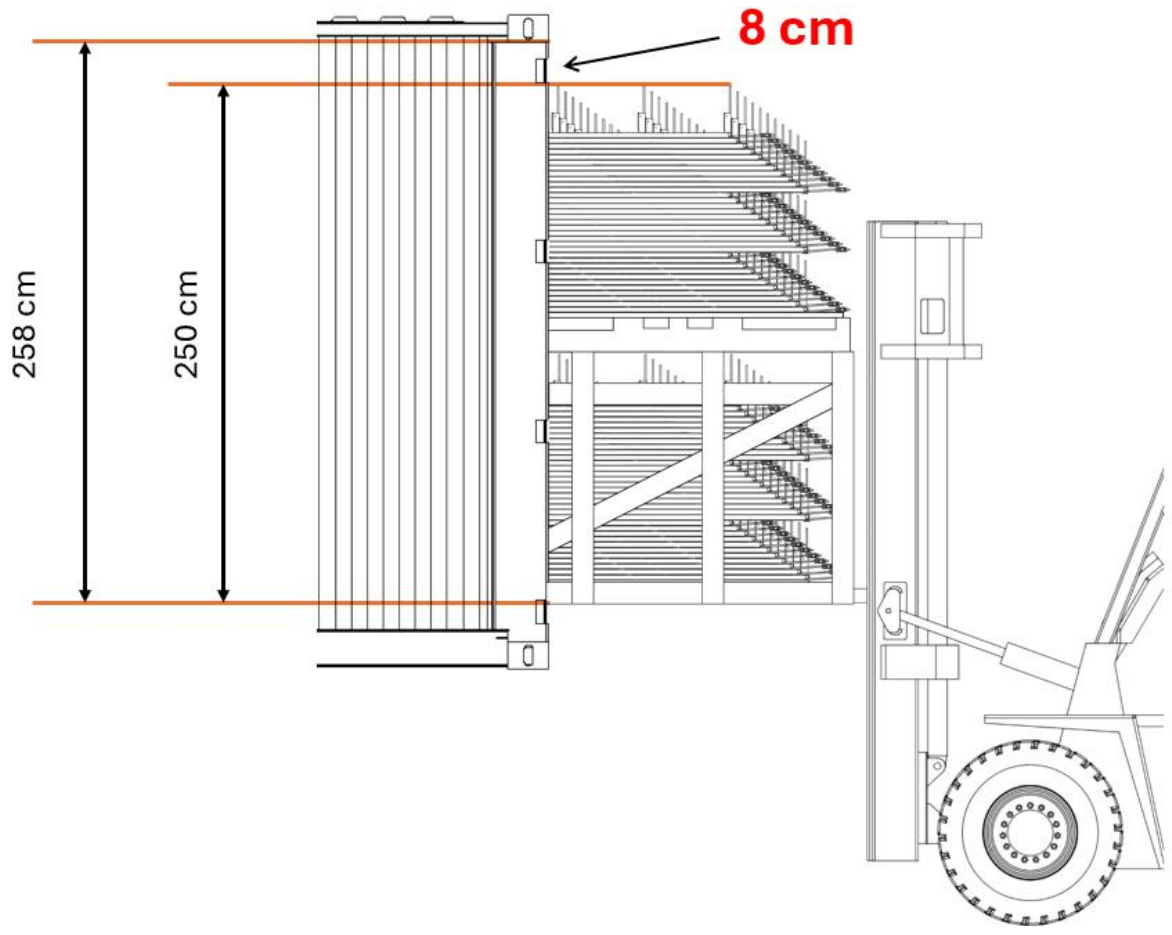

Figure 1: Height difference between the container and top of VPV unit

3 LOADING PALLETS ON TRUCK

It is very important to place pallets as shown in fig. 2 below. Each pallet must have a minimum of **2 long straps** fixed to hooks of truck to avoid any movements during transport.

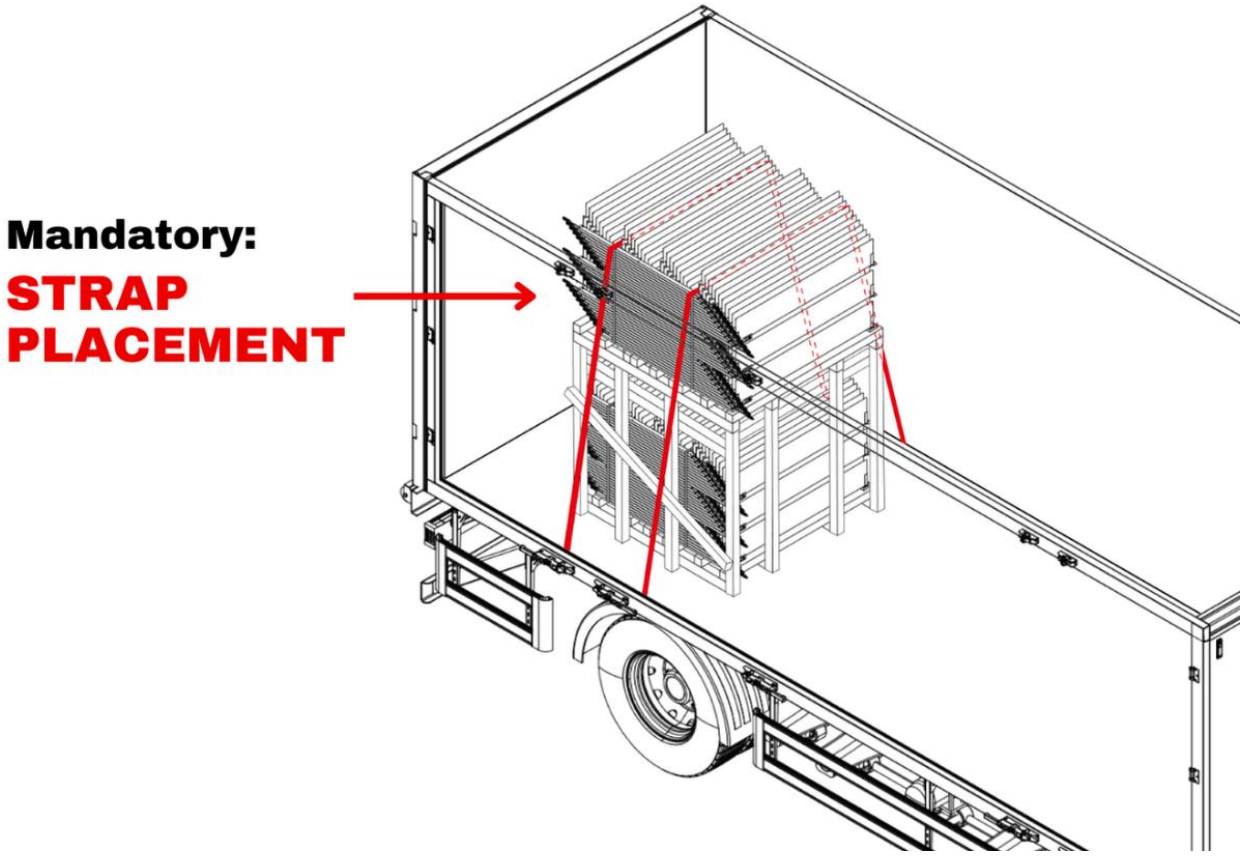

Figure 2: Representation of pallet position and straps on truck

4 REMOVING PALLETS

After removing the VPV units from the container/truck, please go to Step 1 if there are two pallets on top of each other or skip to Step 2 if there is only one pallet with armor.

Figure 3: Two pallets on top of each other

4.1 Step 1: Remove the top pallet

To remove the top pallet, first unscrew the 4 screws with washers (T20 or T25) that connect both pallets.

Figure 4: Screws connecting the upper and lower pallets

Then insert the forklift at a **90-degree** angle and lift the top pallet. Be aware that if the forklift enters with a descending angle, it may hit the top of the panels and cause them to break.

Figure 5: Positioning of the forks

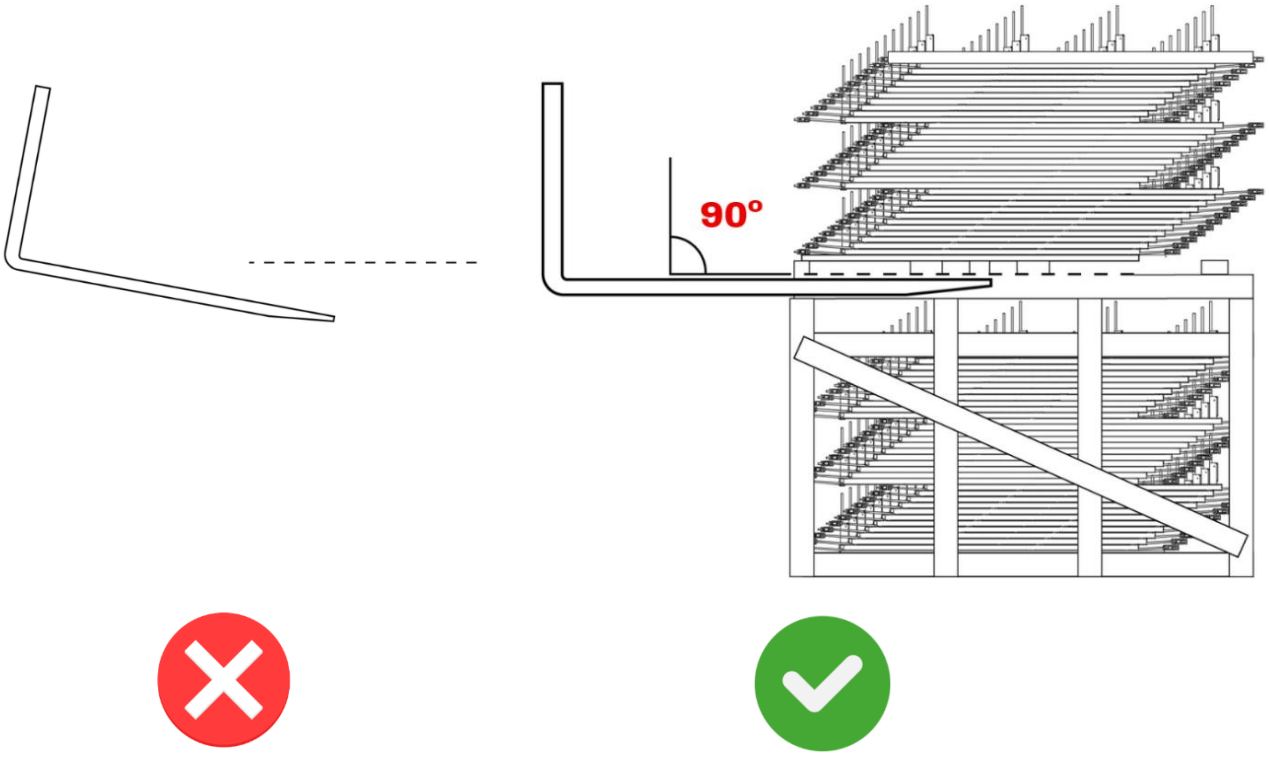

Figure 6: Correct Forklift Entry Angle to Prevent Panel Damage

4.2 Step 2: Unscrew the top beams

Once the top pallet has been removed, unscrew the 4 screws with washers (T25) that connect the top beams.

Figure 7: Representation of both top beam

Figure 8: Representation of the screws on the top beams

4.3 Step 3: Remove both sides

To remove both sides of the pallet, unscrew the 4 screws (T25) with washers on the laterals and unscrew the 8 screws (T40) at the bottom.

Figure 9: Representation of one of the sides

4.4 Step 4: Remove the front and back

Finally, unscrew the 8 screws (T40) at the bottom to remove the front and back sides.

Figure 10: Representation of the front

Over Easy
Solar

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