Data Sheet
Contec.greenlight on top 10° - 20°

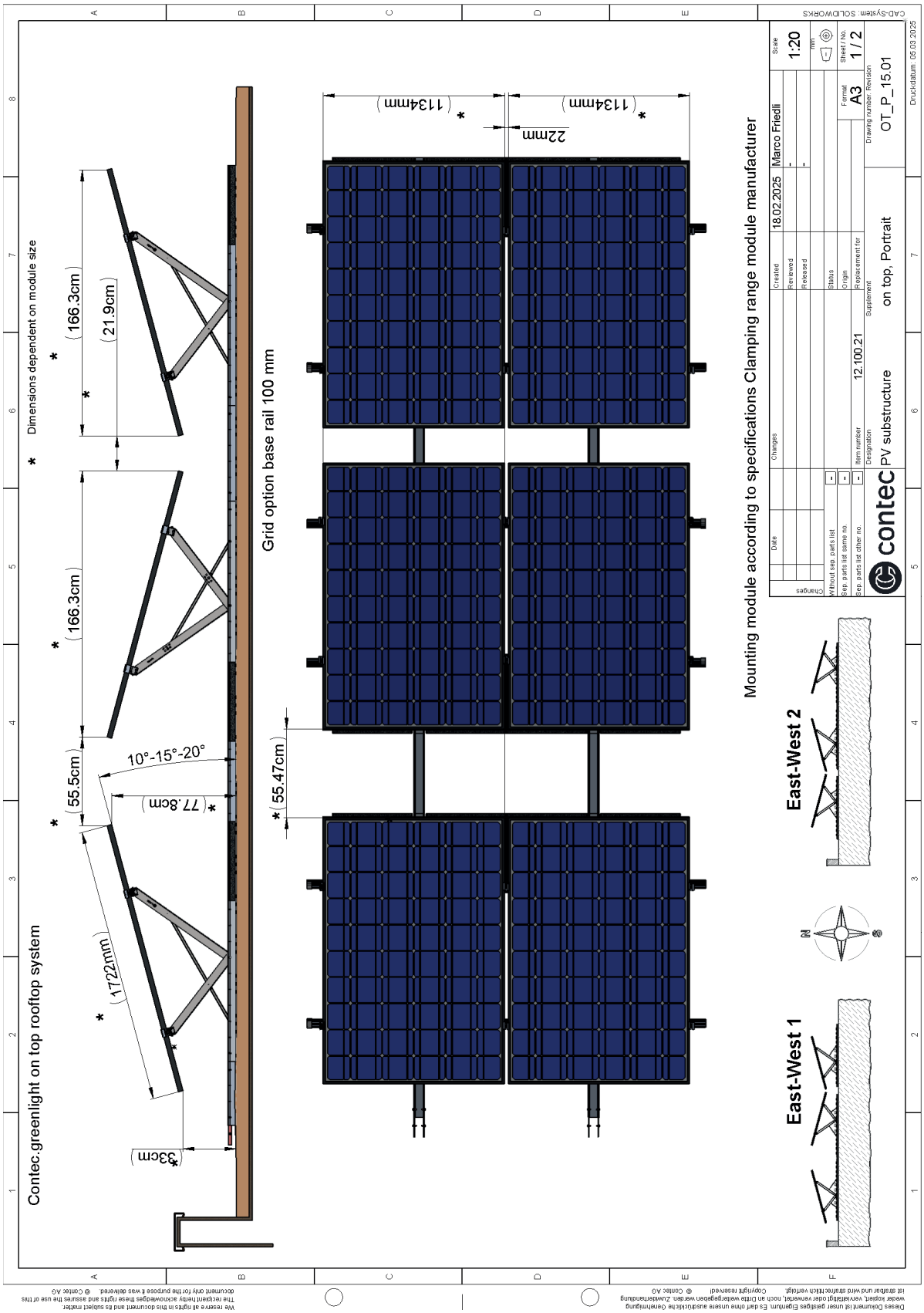
10 / 08 / 2026



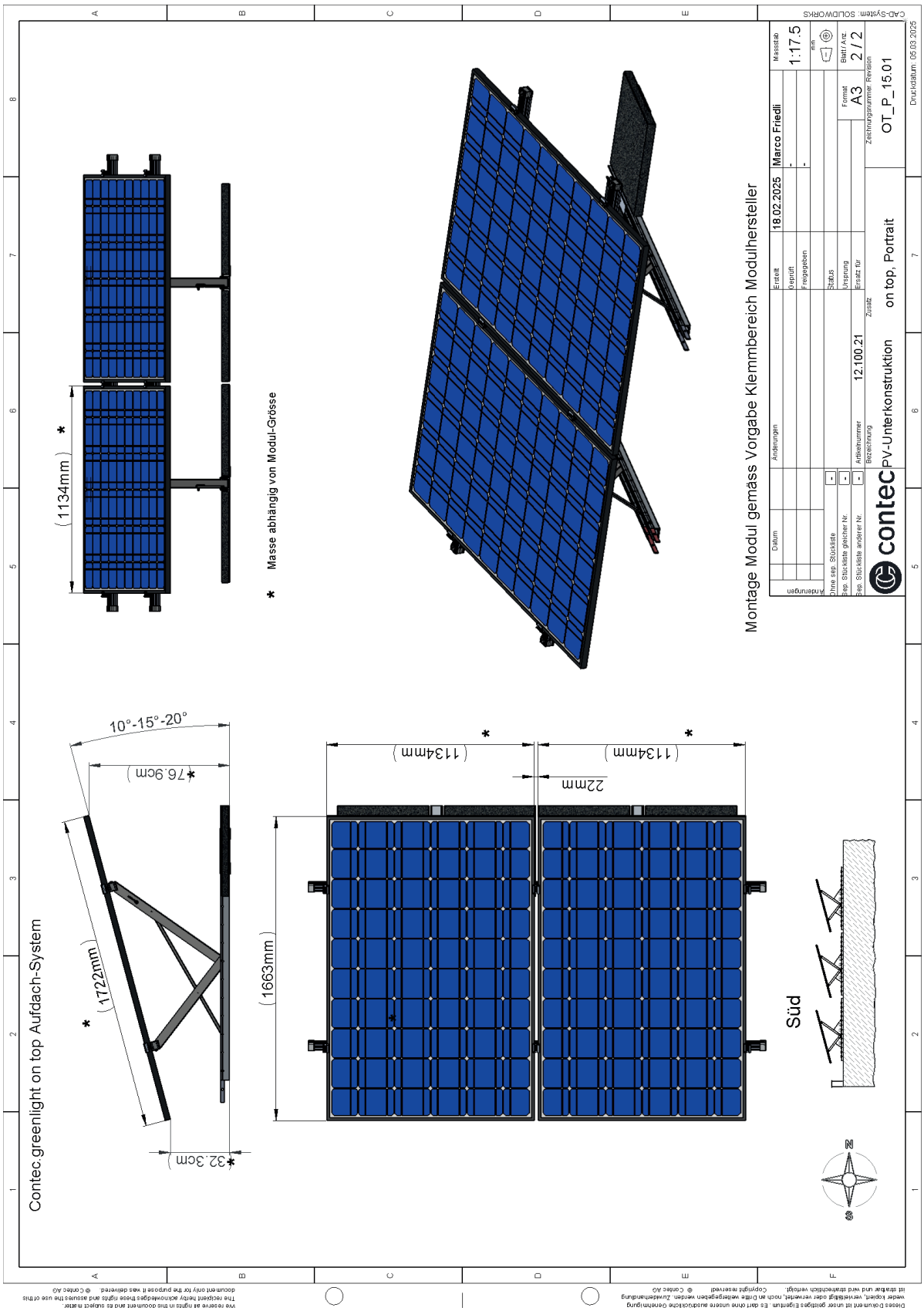
Technical Data

Contec.greenlight on top	Dimension per PV module
Weight per unit	9.3 kg, weight without ballast, without PV module (landscape)
Material	Magnelis, aluminum, stainless steel, galvanized steel
Standard module inclination	10°, 15° or 20° standard (freely adjustable)
Alignment	Inclination adjustable (east/west, south / landscape, portrait)
Roof connection	No constructive roof connection necessary, system is placed on the green roof/gravel roof.
Ballasting	Load and distance between substructure (distances between Knickfix base profile) must be calculated by Contec AG according to the wind zone plan.
Roof pitch	Inclination up to 5° approved From 5°: Approval only with technical clarification from Contec AG.
Unit consists of	Landscape: 1 x ~1.5 m base rail 1 x ~3.5 m profile rail Portrait: 1 x ~2.1 m base rail Universal: 1 x ~2.2 m profile rail 1 x Knickfix 1 x fixed strut Small items (screws, L-shaped profile connectors, Base rail connectors, module clamps)
Ballasting unit	Garden slabs 50 cm x 50 cm (not included in the scope of delivery)
Warranty	10 years system warranty on Contec.greenlight on top substructure ex works, valid from date of delivery.

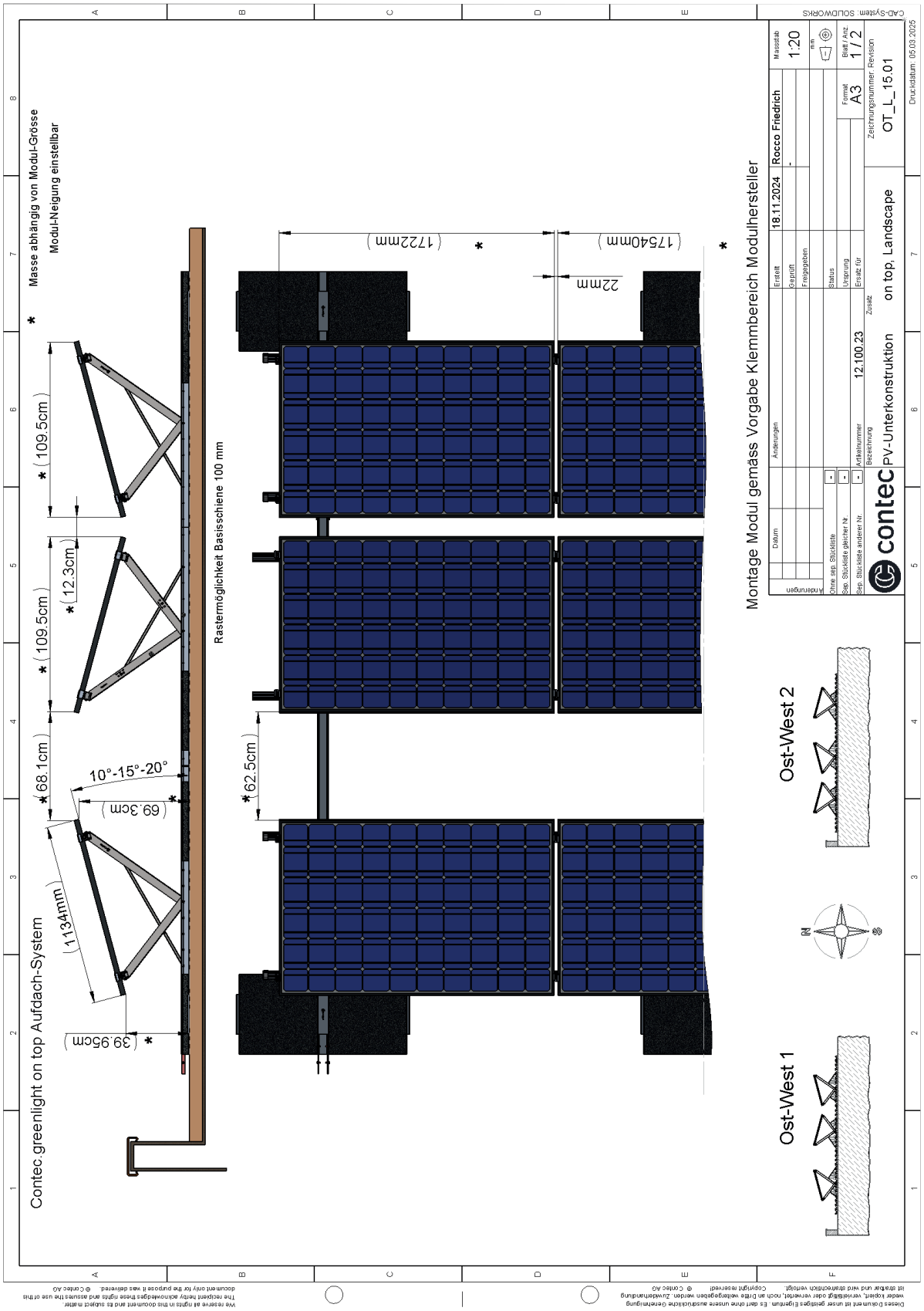
Contec.greenlight on top Portrait East-West



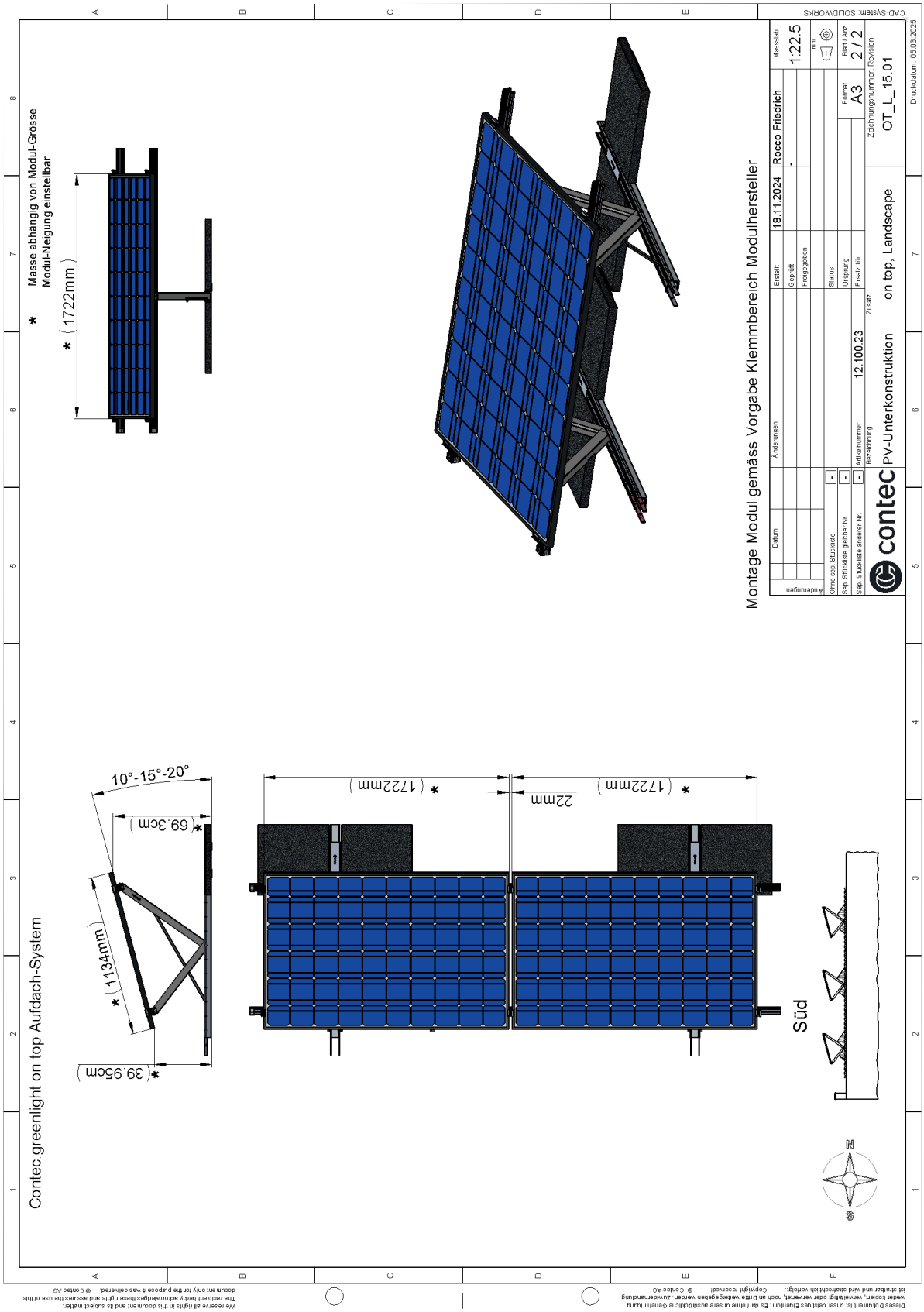
Contec.greenlight on top Portrait South



Contec.greenlight on top Landscape East-West



Contec.greenlight on top Landscape South



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Factsheet
Contec.greenlight on top

Important Information for a Well-Functioning EnergyGreenRoof

- The Contec.greenlight on top system is designed for existing green roofs or gravel roofs.
- The development of the greenery must be observed well in the first year after the installation of the PV system and measures must be taken if necessary.
- The substrate layer structure should be as level/parallel to the roof deck as possible (level out if necessary).
- Before mounting, the mounting instructions as well as the mounting notes must be observed.
- Observe ballasting / ballast weights according to plan.
- A special seed mixture must be used for the EnergyGreenRoof (low-growing).
- With the EnergyGreenRoof, at least 2 - 4 maintenance passes per year are necessary.
- When maintaining the green roof, ensure that no damage occurs to the PV systems.
- High-growing plants are to be removed manually or with suitable equipment (no string mowers, as these could damage the power cables and contaminate the PV panels).
- Fall protection must be planned in accordance with the guidelines.

Changes in Load Calculations for Photovoltaic Systems

As Contec AG manufactures only mounting systems for PV modules and does not supply modules itself, until the end of 2025 we assessed the suitability of our systems solely on the basis of site loads and selected the Knickfix angle so as to ensure the required profile rail spacing for the chosen module. We now also check the suitability of the desired PV module. To do this, we determine the required site loads – snow and wind – in accordance with SIA 261 and Eurocode 1.
We divide the roof into different load zones in accordance with SIA 261 and Eurocode 1. In the edge zone, the percentage of which depends on the length and width of the building, higher loads apply, as a different, higher multiplier must be applied here. We multiply this zone load by the partial safety factor of 1.5 for unfavourable variable actions in accordance with SIA 260 or Eurocode 0.
This results in the adjusted snow and wind load, which we use for the calculation. We compare this with the module's design load – two-thirds of the manufacturer's test load. If our load is below this, the module is suitable. If it is above, the mounting method must be adjusted or a different PV module used.

Factsheet
Contec.greenlight on top

Advantages of Contec.greenlight on top

- Can be used on existing green and gravel roofs.
- Low additional weight due to surface compound of the PV system weight per unit area max. ~45 kg/m² (including PV module, ballast and substrate construction)
- No loss of yield due to shading of plants (module height lower edge min. 30 cm from substrate)
- Ecological added value through high biodiversity of the flat roof thanks to the combination of PV and greening
- Quick and easy installation
- No accumulation of heat under the panels; for every 1° C cooler PV module, the additional output increases by 0.35 - 0.45%
- No roof penetration
- Simple integration of fall protection
- Optimal use of roof area
- Easy maintenance of the planting, control and cleaning thanks to increased installation -> approx. 50% less maintenance than with flat modules on vegetation
- Snow slides off quickly

Contec Service

We create

- Occupancy planning based on a proposal
- Substructure plan
- Installation plan incl. load calculation

The planning of the fall protection system Contec.safe is taken into consideration

On the roof

- Installation of the substructure and guardrails incl. acceptance test
- Seeding with suitable seeds
- Visual inspection of the PV system
- Annual roof maintenance according to checklist
  - Maintenance of greenery
  - Inspection of guardrails
  - Inspection of plumbing work and connections
  - Cleaning of PV panel

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