

SPECIFICATION TEXT – KYROOF INROOF SYSTEM

SECTION 27.31.30 – ROOF-INTEGRATED PV SYSTEMS, SLOPED ROOFS

0. Description

Supply and installation of a roof-integrated PV system, type Kyroof System, consisting of prefabricated OSB-EPDM roof panels with integrated mounting provisions for solar panels. The system includes all required components for a complete, highly water-resistant, and fire-safe integration of solar panels on sloped roofs, including fasteners and connection details.

1. Materials

1.1 General

System components:

- Prefab OSB-EPDM panels
- Mounting brackets for solar panels
- Fasteners
- EPDM seals and edge details
- Solar panels (supplied separately)

1.2 OSB-EPDM Panels

- Material: OSB from sustainably managed forests
- Finish: factory-applied EPDM
- Dimensions: approx. 2440 × 590 × 18 mm
- Tongue-and-groove joints
- EPDM overlapping at longitudinal seams
- Properties: water-resistant and vapor-tight
- Fire class: Broof(t1) certified

1.3 Mounting Brackets

- Material: corrosion-resistant metal
- Fixation: back of panel frame
- Installation: mechanical attachment to OSB-EPDM
- Removable without damaging EPDM
- Fully concealed

1.4 Solar Panels

- Type: standard PV panels
- Application: in-roof
- Finish: full black (common)
- Dimensions (indicative):



Panel Size | Power
1762 × 1134 mm | ± 460 Wp
1542 × 777 mm | ± 275 Wp

Final selection according to supplier data and project calculation

2. Execution

- Installation according to manufacturer's instructions
- Panels mounted with ventilated cavity to ensure correct vapor handling
- EPDM overlap ensures water-resistant connections
- Panels individually removable without affecting EPDM

3. Requirements & Performance

- Compliance with Building Decree (Bbl)
- Water resistance: highly water-resistant roof surface, sealed with overlapping EPDM
- Fire safety: Broof(t1)-certified EPDM
- Vapor control: vapor-tight interior, vapor-open exterior, ventilated cavity required
- Structural safety: loads according to NEN-EN 1991 (wind/snow)
- Durability: low-maintenance, moisture-resistant, UV-stable materials
- Aesthetics: concealed fastening

4. Application

- Residential construction (new build and renovation)
- Sloped roofs with roof tiles
- Roof surfaces with integrated PV panels
- Roofs with dormers or roof windows (with connection details)

5. Measurement and Pricing

- Unit: m² of roof area with Kyroof System
- Included: supply and installation of OSB-EPDM panels, brackets, fasteners, EPDM seals, connection details
- Not included: PV panels, electrical installation and inverters, substructure, roof tiles outside system