

# IVPU – OBJECTIVES, FIELDS OF ACTIVITY AND CURRENT CHALLENGES FACING THE GERMAN RIGID PU FOAM INDUSTRY

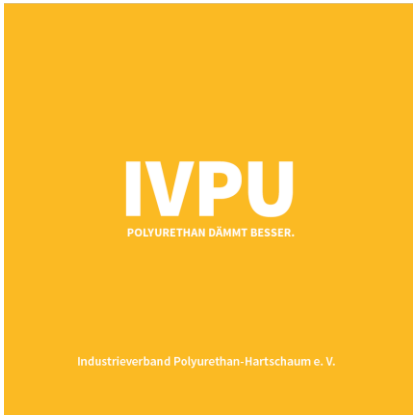
The Danish Plastics Federation, PUR Annual Meeting  
7 May 2026, Nyborg, Dr. Andreas Huther



# IVPU ORGANISATION

# IVPU FULL MEMBERS

## Raw material suppliers



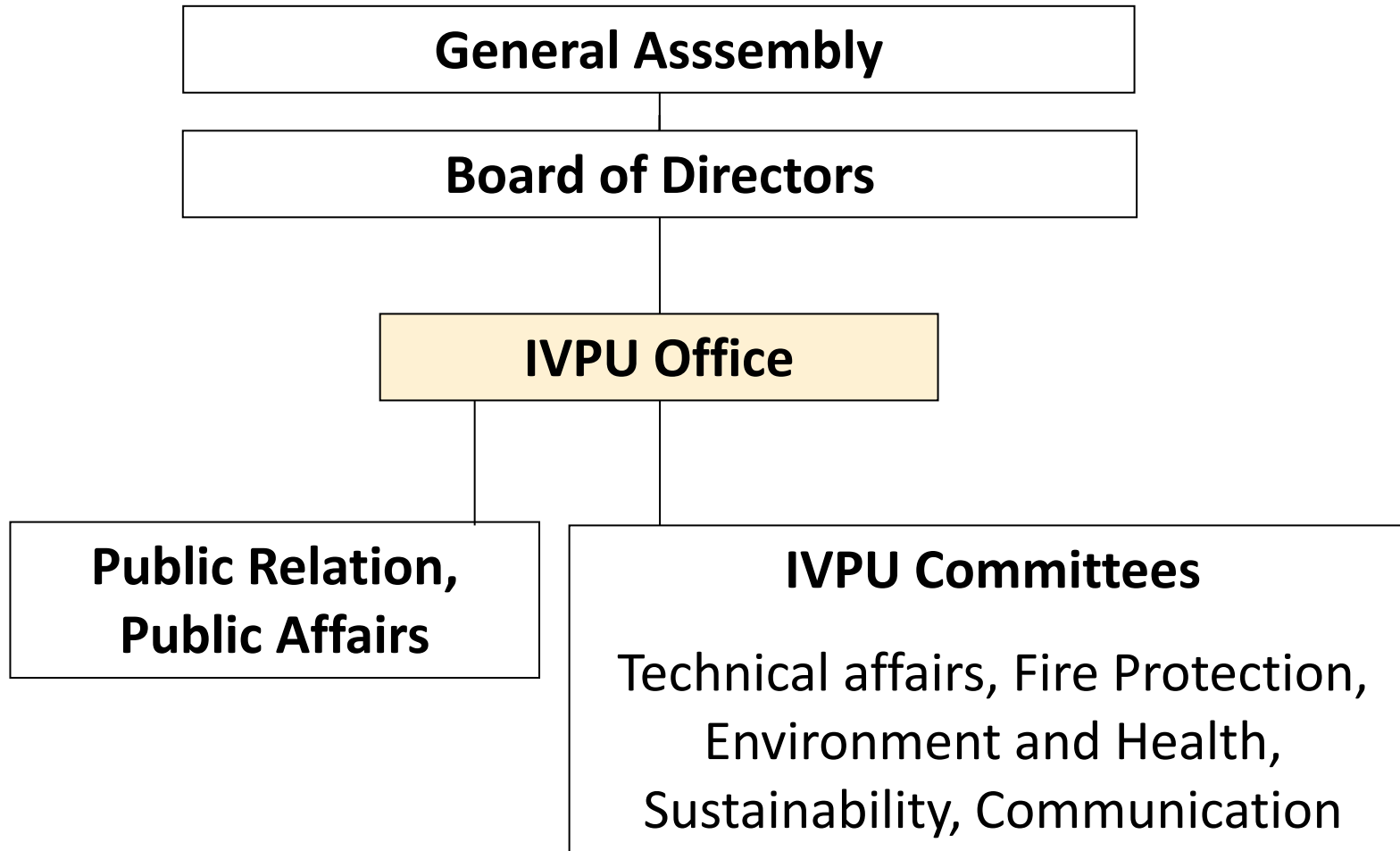
## PU insulation manufacturers



## Guest members



# IVPU STRUCTURE



# IVPU BOARD OF DIRECTORS



## **Vorstandsmitglied**

Kay Beyen  
Head of Compliance  
Regulatory and Public Affairs  
Continental Europe, Kingspan  
Insulation



## **Vorstandsmitglied**

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Team Leader Sales  
Business Management Isocyanates  
BASF Polyurethanes GmbH



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puren gmbh



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## **Vorstandsmitglied**

Bernd Hennig  
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Covestro Deutschland AG

# IVPU PREMISES IN BERLIN AND STUTTGART AND OFFICE TEAM

## Office Stuttgart

Esslinger Straße 20  
70182 Stuttgart

## Office Berlin

Friedrichstraße 95 (PB 79)  
10117 Berlin



# MARKET AND APPLICATIONS IN GERMANY

# BUILDING INSULATION IN GERMANY

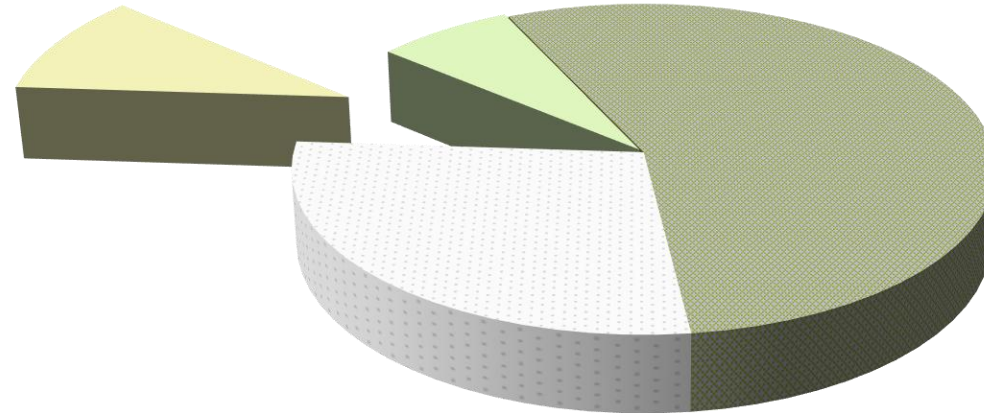
## MARKET SHARES IN M<sup>3</sup>



■ PIR > 10 %



■ XPS 7 %



■ MW 55 %



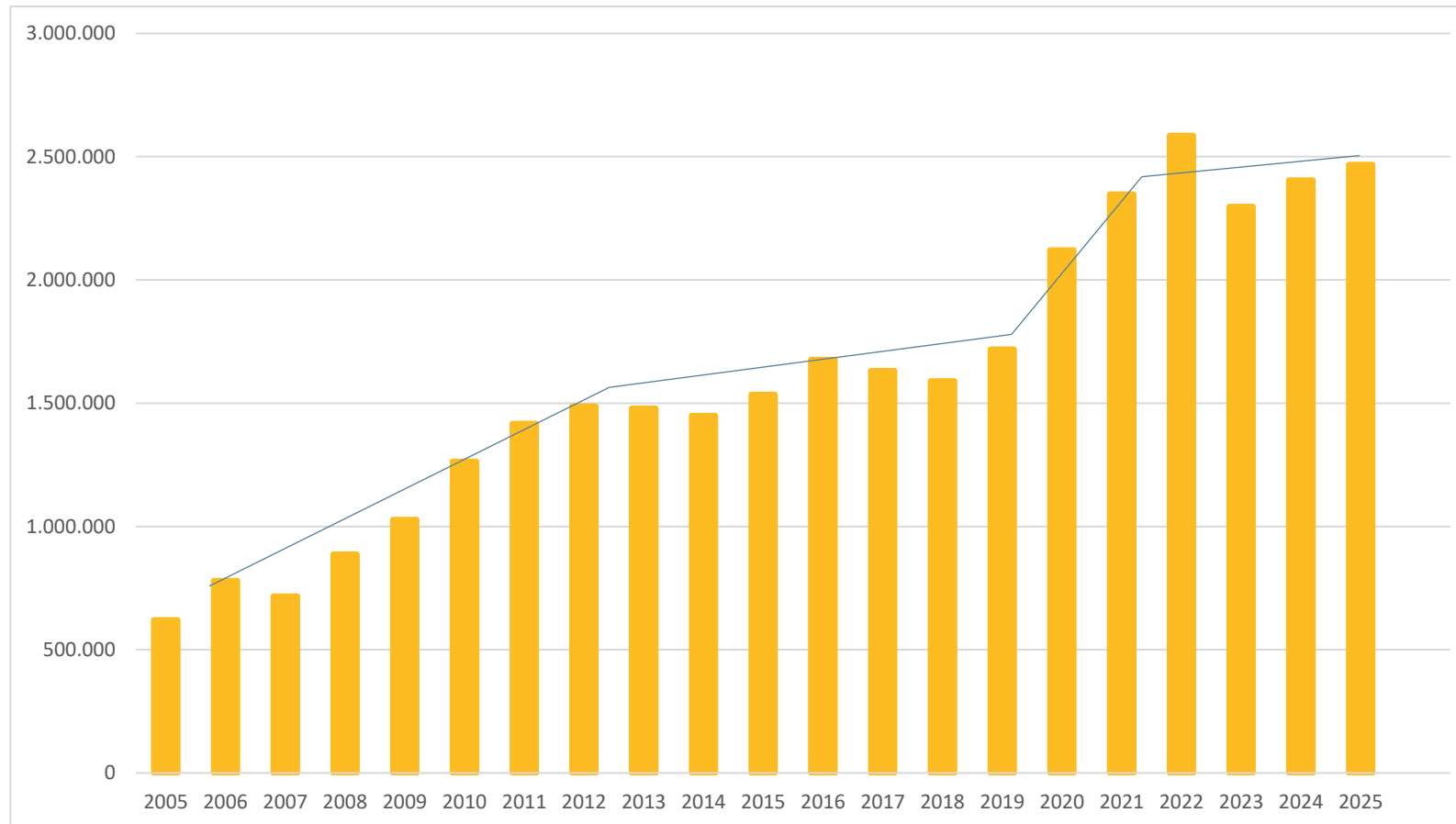
■ EPS 28 %



# MARKET DEVELOPMENT PU 2005 - 2025

## GERMANY

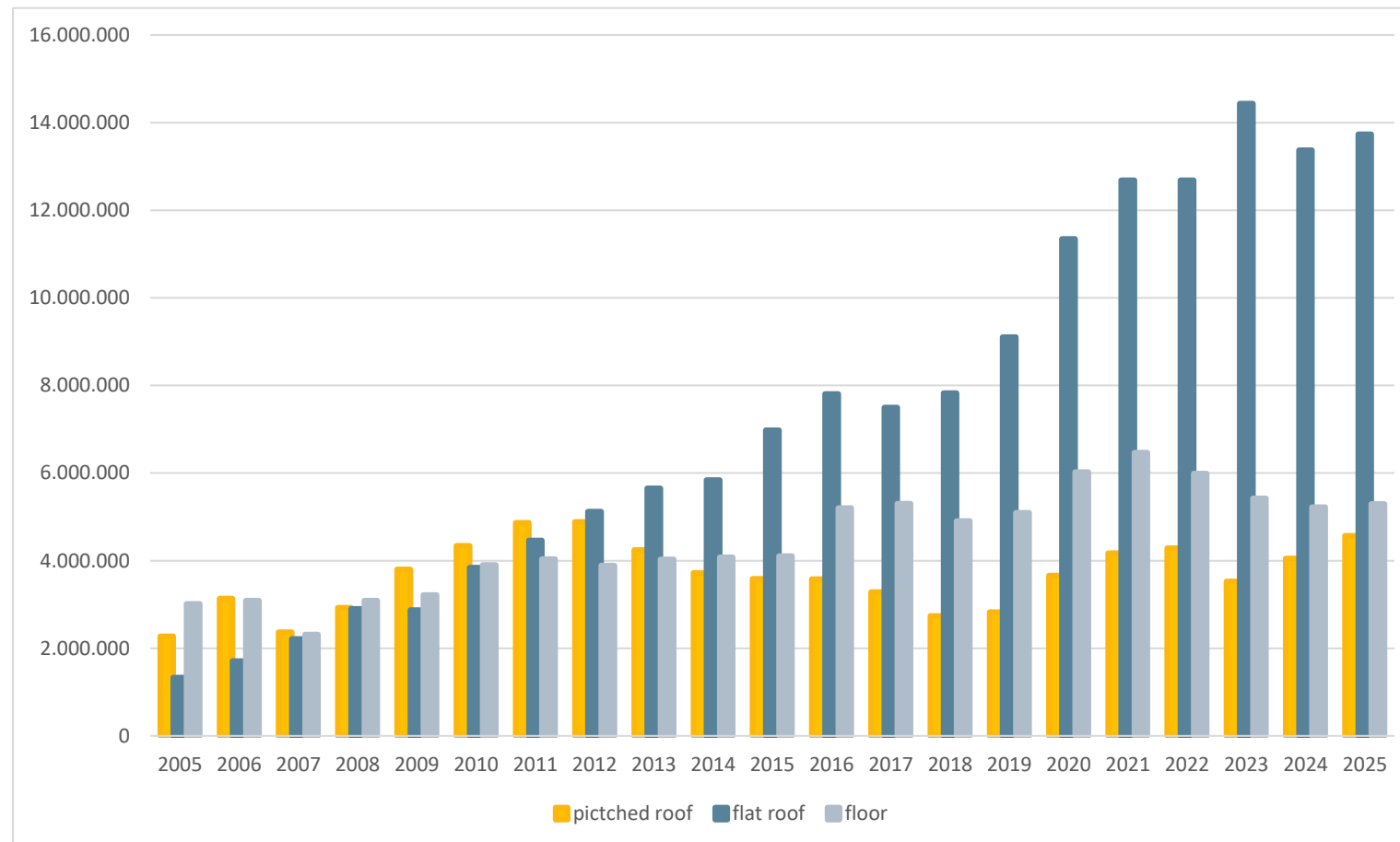
Total PU sales in m<sup>3</sup>



# MARKET DEVELOPMENT PU 2005 - 2025

## GERMANY

PU sales by applications in m<sup>2</sup>

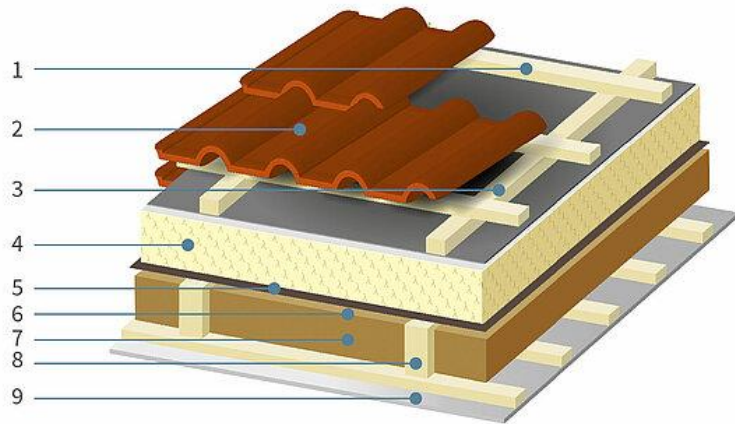


# APPLICATIONS

## PITCHED ROOF INSULATION ABOVE RAFTERS

### Beispiel für eine PU-Sanierungslösung:

Aufbau mit einem U-Wert =  $0,14W/(m^2 \cdot K)$  erfüllt Vorgaben für eine KfW-Einzelmaßnahmenförderung



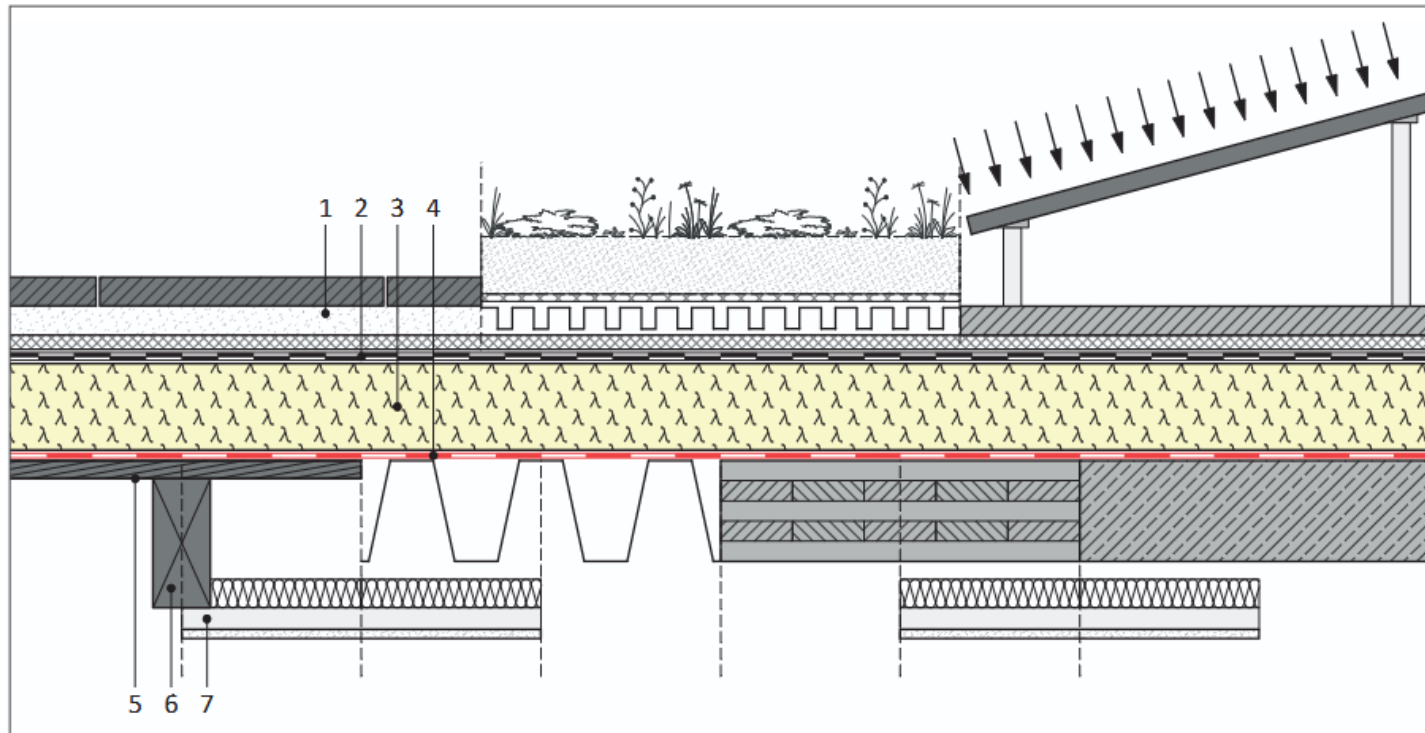
**Legende:\*** 1 Dachlatte, 2 Dachdeckung, 3 Konterlatte,  
4 PU-Aufsparrendämmelement 12 cm, WLS 023 bzw. WLS 026  
mit werkseitig aufkaschierter Unterdeckbahn, 5 Dampfbremse,  
6+7 Sparrenebene: 10 cm vorhandene Dämmschicht, WLS 040  
und Luftschicht, 8 Sparren, 9 raumseitige Bekleidung (Bestand)

\* Die Funktionstüchtigkeit wurde mit hygrothermischer Simulation berechnet.



# APPLICATIONS

## FLAT ROOF INSULATION



# APPLICATIONS

## WALL INSULATION, ETICS



# IVPU – FIELDS OF ACTIVITIES AND OBJECTIVES

## Public Affairs

### Advocacy

Shaping the legal and regulatory  
business environment

## Marketing & Public Relation

**Market Information**  
**Communication to internal  
and external target groups**

Positive perception of PUR/PIR by  
professionals and end-users

## Technical & Environmental Affairs

**Standardisation**  
**Products, Applications/Use in  
Buildings, Environment, Health**

Securing existing market segments;  
Promoting new application areas  
(e.g. ETICS)

# IVPU

## TOPICS ON EUROPEAN LEVEL

- Construction Product Regulation (CPR Acquis):  
Harmonised Standards (hEN); Complementary Product Category Rules (cPCR);  
Digital Product Passports (DPP)
- REACH Risk Assessments, Classification and Labelling: Flame retardants and Additives
- Waste Framework Directive Review: End of Waste criteria also for thermoset products?
- PPWR - Packaging and Packaging Waste Directive
- Fire protection: PV-panels on flat roofs & Facades → establishing harmonised test methods
- PU image issues
- EmpCo “Empowering consumers for the green transition through better protection against unfair practices and through better information”: Workshop for PU Europe Membership?

# IVPU

## TOPICS ON NATIONAL LEVEL

- Take-back scheme for PU residues – cooperation with contractors and distributors
- Promoting re-use and recycling technologies
- PU image
  - Avoiding discrimination e.g. “Blauer Engel”, criteria for official incentives, PU + Wood
  - ÜGPU Quality marks: Q-mark, pure life
  - Marketing and Promotion
- PV and fire: cooperation with German Association of Insurance Companies (GDV)

**PURE LIFE &  
FLAME  
RETARDANTS**

# ÜGPU

## QUALITY ASSURANCE FOR PU RIGID FOAM

1976 ÜGPU established as third party by PU industry

2017 Introduction of voluntary quality programmes

Q-mark (technical characteristics)

pure life (avoid dangerous substances &  
focus on indoor air quality)

2026 20 Members (production plants in DE, F, A, NL, BE)

112 products certified for Q-Mark

42 products certified for pure Life



pure life ist ein Zeichen der ÜGPU e.V.

# ÜGPU PURE LIFE LABEL

Audits, tests and certifications done by accredited institutes  
(FIW München, Fraunhofer WKI)

Certified products with “pure life” meet strict requirements regarding content and the release of dangerous substances:

- German AgBB
- French VOC Class A+

Excluded substances:

- CMR and SVHC Substances
- Flame retardants
  - TCEP
  - **TCP** from **01.01.2027**



pure life ist ein Zeichen der ÜGPU e.V.

# **PV-PANELS ON FLAT ROOFS AND FIRE PROTECTION**

# GUIDANCE PAPER GDV

## Photovoltaik-Anlagen auf Dächern

Möglichkeiten zur Minimierung eines Brandrisikos



	nicht wahrscheinlich	wenig wahrscheinlich	wahrscheinlich
Es wird davon ausgegangen, dass alle brennbaren Dachabdichtungen und -Dämmstoffe durch einen Defekt an einer PV-Anlage entzündet werden können.			
trägt potenziell selbstständig zur Brandausbreitung bei	Dachisolierung		
Dachabdichtung	Mineralwolle oder sonstige nichtbrennbare Dämmstoffe	PUR/PIR mit Nachweis nach B-s2-d0	PUR / EPS / XPS oder andere brennbare Dämmstoffe
Nichtbrennbare Dachabdichtung (z. B. Dachpfannen, Trapezblech)	Green	Yellow	Red
Folie	Green	Yellow	Red
Bitumenbahnen oder andere bitumenhaltige Abdichtungen	Red	Red	Red
PUR Sandwichelement (B1; B / C)	Yellow	Yellow	Yellow
PUR Sandwichelement (B2; D und „schlechter“)	Red	Red	Red

Insurance companies are increasingly requiring the use of non-combustible insulation materials when PV panels are installed on flat roofs.

- IVPU cooperates with National German Association for Insurance Companies (GDV) to take an objective view of the discussion.
- New guidance paper on fire safety for roofs with PV on commercial buildings is now available

# RESULTS OF FIRE TEST IN ST. PÖLTEN, AUSTRIA, 2025

## PIR AFTER THE TEST



Quelle: Paul Bauder

The PIR was involved in the fire in the PV module area, but the fire did not spread laterally

# FIRE TEST RESULTS



Quelle: Paul Bauder

## PIR:

- Fire involvement only in the area of the PV modules
- No significant horizontal fire spread
- No downward burn
- 4 PV modules burned

## MW:

- fire spread comparable to PU
- 2 PV modules burned

➔ The tested configurations have shown, that the protection goals (fire spread and downward burn-through) can be achieved regardless of the insulation (PIR or MW)

# FACADE AND FIRE

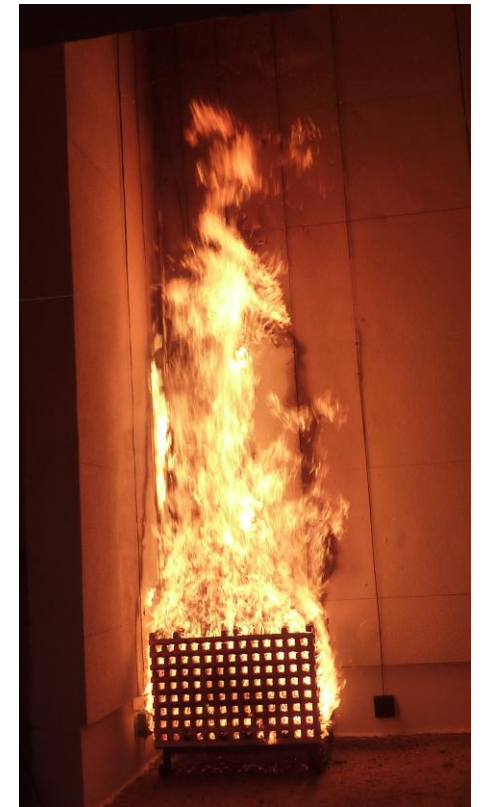
# ETICS + FIRE PROTECTION REQUIREMENTS

Requirements for facades in Germany depend on the height of the building:

≤ 7 m	no requirements
Medium height > 7 to > 22 m	insulation product Rtf Class C or better (in most of the federal states)
High rise ≥ 22 m	only non combustible insulation

ETICS need to pass DIN 4102-20 (German medium scale system fire test) to get a „Zulassung“

The general approval of a insulation product family depends on passing a large scale test (DIN 4102-24, „Sockelbrandversuch“)

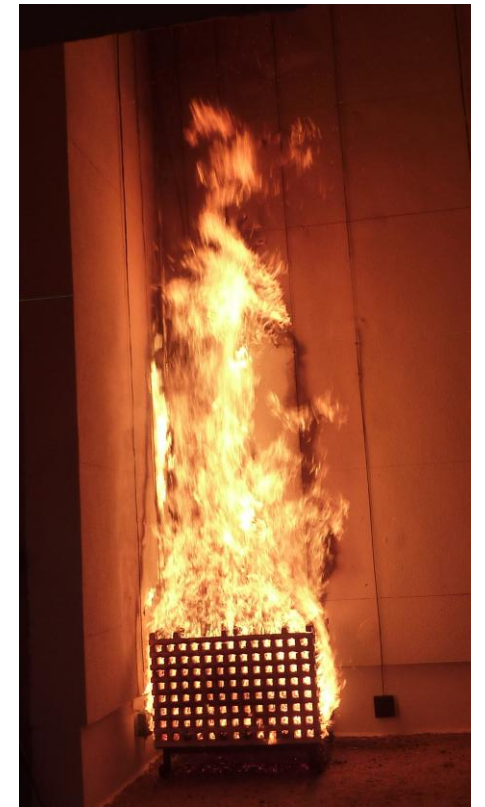


# ETICS + FIRE PROTECTION

## IVPU ACTIVITIES

Objective: General acceptance for PU in ETICS in buildings of medium height

- Meetings with building authorities and DIBt
- Run a test program with several medium and large scale fire tests



# IVPU VIDEO „THE LIFE CYCLE OF PU“

**HOW ARE PU INSULATION  
MATERIALS  
MANUFACTURED, USED  
AND RECYCLED?**

**OUR SPECIAL THANKS GO TO THE  
PARTICIPATING COMPANIES:**

Paul Bauder GmbH & Co. KG,  
Covestro Deutschland AG,  
Currenta GmbH & Co. OHG,  
Linzmeier Bauelemente GmbH,  
puren GmbH,  
Frank Auch – Plumbing and Roofing Company

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EUROPEAN DIISOCYANATE & POLYOL  
PRODUCERS ASSOCIATION