

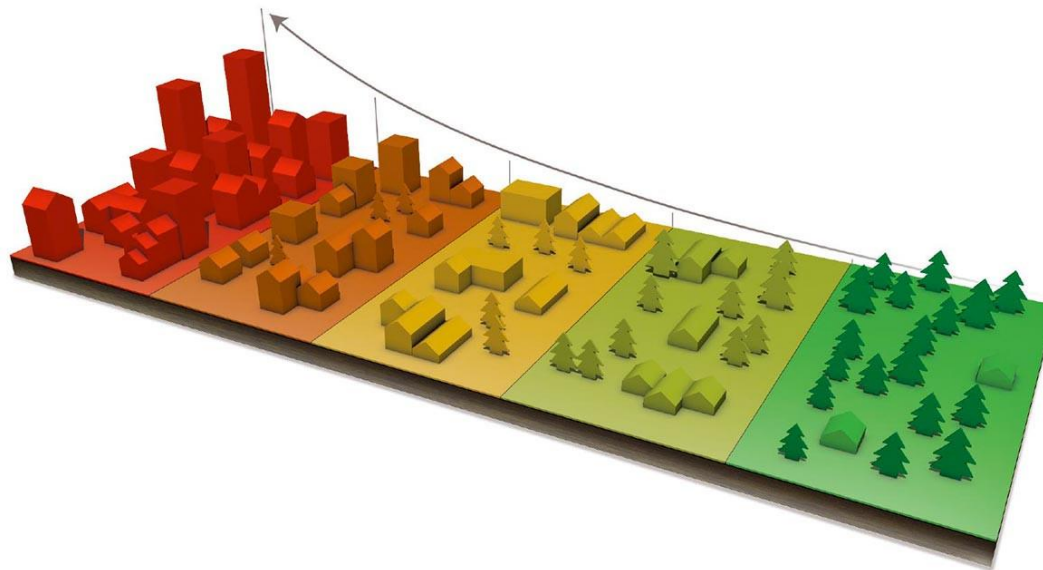


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# Ušteda energije kroz sustave ravnih krovova

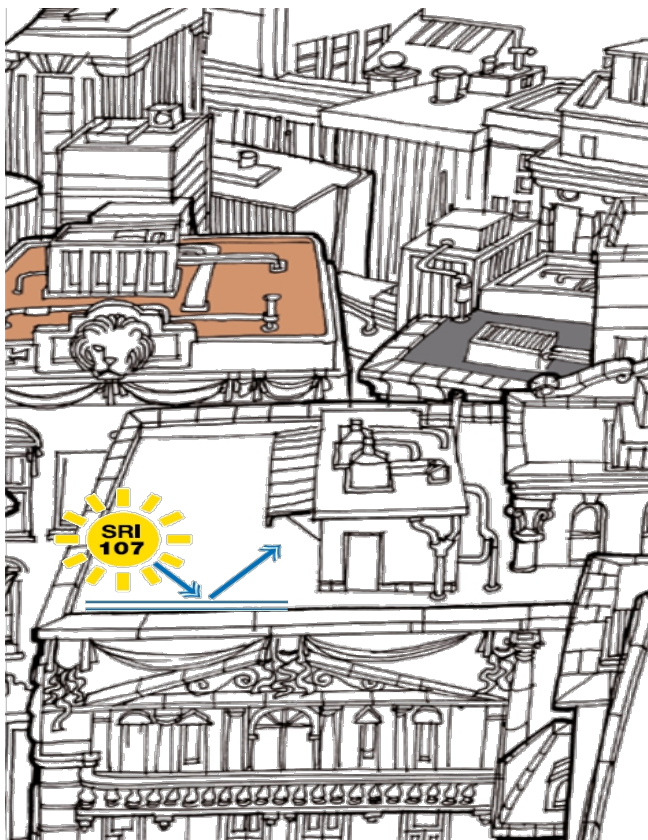
Diljem **svijeta**, svaki **dan**, svijet može računati na **Mapei**

## Problematika „toplinskog otoka”



- Urbane sredine suočavaju se s učinkom „toplinskog otoka”
- Stari bitumenski pokrovi povećavaju temperaturu krova i gradskog okoliša
- Održiva arhitektura teži iskoristivosti krovnih površina

## Rješenja za „toplinski otok“



### Što je „toplinski otok“?

- Tamni krovovi apsorbiraju toplinu koja povećava ne samo temperaturu krova, već i temperaturu **prostorija ispod krova**.
- To znači **veću potrošnju energije** za hlađenje prostorija
- **Svijetla boja** krova osigurava sljedeće prednosti:
  - ✓ visoku refleksiju i nižu temperaturu krova
  - ✓ smanjenje učinka "toplinskog otoka"

Karakteristike su certificirane sukladno **EELab** (Sveučilište u Modeni):

**R=85%**  
(sunčeva refleksija)

**ε=90%**  
(toplinsko zračenje)

**SRI=107**  
(indeks sunčeve refleksije)

## Obnova postojećih krovova



- **Tekuće hidroizolacije:** jednostavne za primjenu
- Za sanaciju **postojećih** ravnih krovova
- **Bez sadržaja** hlapljivih organskih spojeva (VOC)

## Ponašanje sintetičke PVC-P folije uslijed umjetnog starenja



Početno stanje

uzorka



1000 sati

male pukotine

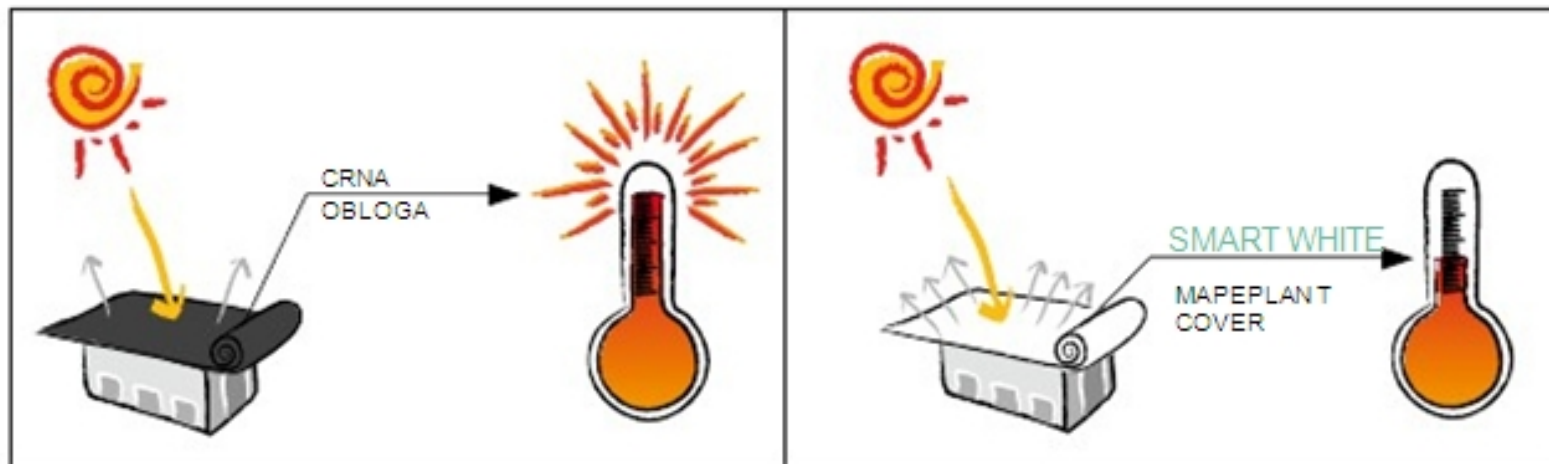


3000 sati

vidljive pukotine

## Karakteristike Mapeplan TPO/FPO folija

### Mapeplan T M Smart White®



Smanjuje zagrijavanje krova za više od 50 %

## Ispitivanja površinske temperature sintetičke folije



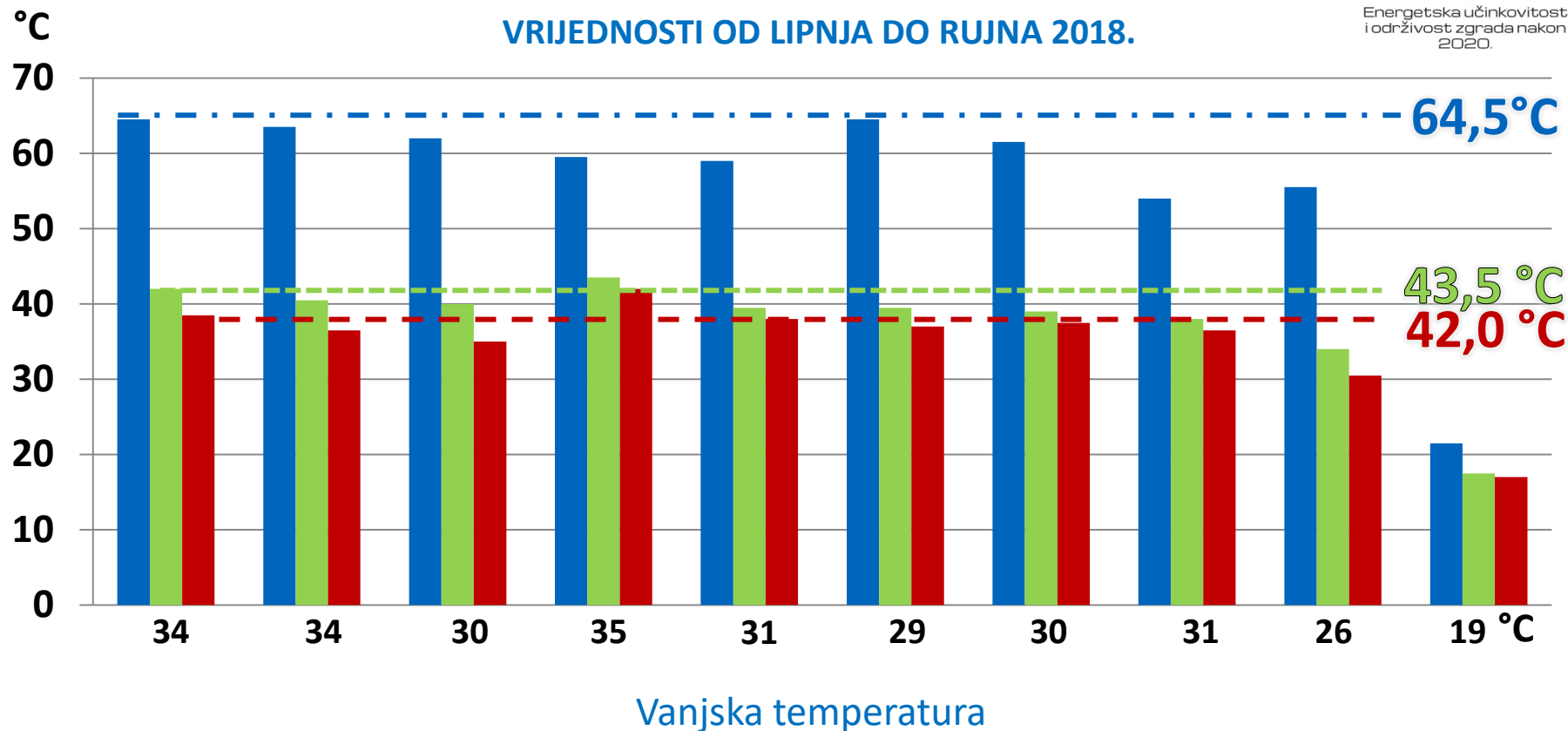
Hidroizolacijske folije  
položene na toplinsku izolaciju  
debljine 60 mm

### UZORCI FPO FOLIJE:

- Tamno siva
- Zeleno siva
- Bijela *Smart White*



# Ispitivanja površinske temperature sintetičke folije

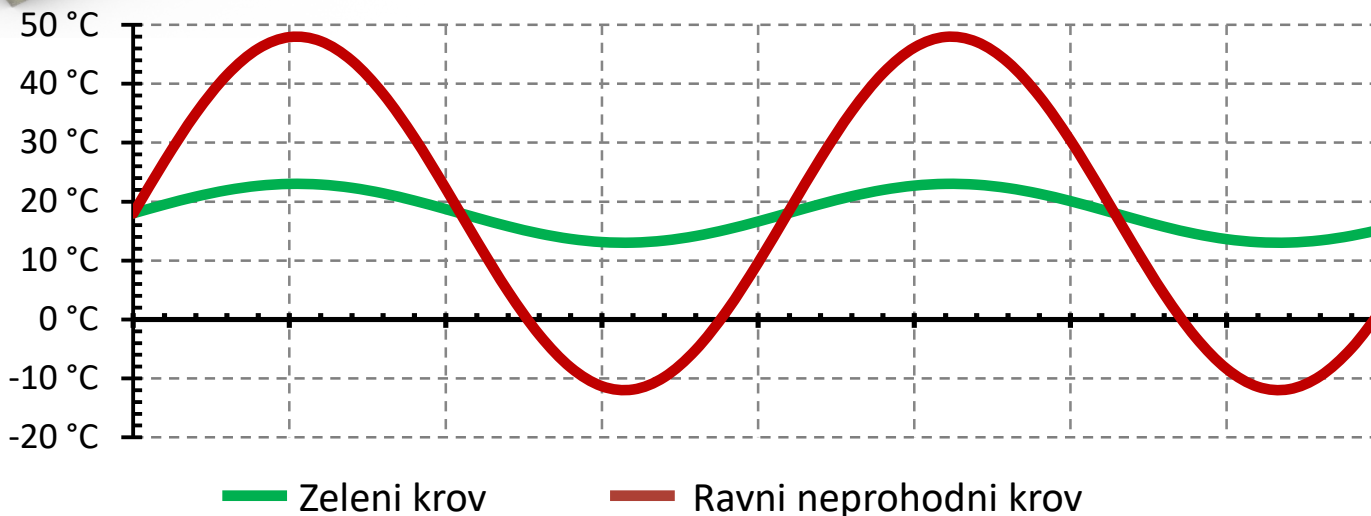




## Razlike temperatura ravnih neprohodnih i zelenih krovova



### Toplinski raspon na sintetičkoj foliji



## Reference



Hotel Bellevue – Mali Lošinj

# BIM – sustavi ravnih krovova



NO	LAYER
1	Structure
2	Bituminous primer (*)
3	Vapour barrier layer
4	Thermal insulation layer
5	Waterproofing membrane first layer
6	Waterproofing membrane second layer (anti-root)
7	Separation layers (*)
8	Protective screed
9	Drainage layer
10	Filter layer
11	Soil

Section

https://www.bimobject.com/en/product?brand=mapel

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Mapei

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Brands: Mapei

Breathable render for newly built masonry for  
Mapei

Breathable render for newly built masonry for  
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Breathable render for newly built masonry for  
Mapei

Breathable render for newly built masonry for  
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Complete system for renovating masonry (lime-  
Mapei

Complete system for renovating masonry damaged  
Mapei

Cycle lanes, pavements and street furniture in  
Mapei

Decorative finish for internal walls with natural  
Mapei

Durable elastomeric protection and  
Mapei

Durable elastomeric protection and  
Mapei

Exposed system for repairing the waterproofing layer  
Mapei

Installation of porphyry block flooring  
Mapei

Mapelfloor Parking System Me  
Mapei

Mapel Color Paving pronto-walkable flooring bonded to  
Mapei

Mapel color paving system flooring not bonded to the  
Mapei

Mapetherm EPS external insulation system- ETA  
Mapei

Mapetherm tile system for installing thin porcelain tiles  
Mapei

Mixed waterprooing system for  
Mapei

Rapid system for overlaying old flooring with an  
Mapei

Renovating existing walls with rising damp  
Mapei

(\*) Apply the product acc software, the same prod is 0.8 mm.

For information on the characteristics and how to use the aforementioned products, please refer to the latest version of the relative Technical Data Sheets which are available on our website [www.polyglass.com](http://www.polyglass.com).

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11



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na pažnji



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