

<i>Katalog recikliranih izdelkov iz CFR</i>		Tip: Usklajevanje <input type="checkbox"/> Administrativno <input type="checkbox"/> Tehnično <input checked="" type="checkbox"/> Komunikacija <input type="checkbox"/> Usmerjevalni odbor <input type="checkbox"/> Drugo: <input type="checkbox"/>	Ref. WP3, R.3.1.1 Datum: 29.08.2024
Podrobnosti dokumenta			
Projekt	RECREATE: Izboljšanje modela krožnega gospodarstva za zbiranje in predelavo kompozitov, ojačanih z vlakni, ki vsebujejo odpadki		
Delovni paket	2		
Rezultat	R.3.1.1		
Raven razširjanja	Javno		
Cilj razširjanja	FLC		
Avtorji	Franco Mioni (GEES) Tiziana Perin (POLO AA)		
Rok za dostavo rezultata	Obdobje 1		
Različica	Končna		

PRIPRAVIL	Gees Recycling S.r.l	
Dokument SC <input type="checkbox"/>	Zaupen dokument <input checked="" type="checkbox"/>	Javna listina <input type="checkbox"/>



## **DP3.1**

### **R.3.1.1**

## **Katalog recikliranih izdelkov iz CFR**

## **Catalogue of FRC circular products**

Il progetto RECREATE è co-finanziato dall'Unione europea nell'ambito del Programma Interreg VI-A Italia-Slovenia.

*Projekt RECREATE sofinancira Evropska unija v okviru Programa Interreg VI-A Italija-Slovenija.*

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# **Oprema in predmeti za javne prostore**

## **Furnishing and items for public spaces**



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## Cvetliča korita

Izdelane so po meri iz 25 mm debelih recikliranih kompozitnih plošč.

Imajo notranji separator zemlje/ekspandirane gline za odvajanje odvečne vode in tehtajo približno 80 kilogramov.

## Planters

They are made to measure with 25 mm thick recycled composite sheets. They have an internal soil/expanded clay separator for draining excess water and a weight of approximately 80 kilograms.

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## Mize in klopi za šolske in javne jedilnice

*Izdelane so po meri iz recikliranih kompozitnih plošč in cevaste kovinske nosilne strukture. Površine so obdelane z antibakterijsko zaščito.*

## Tables and benches for school and community refectories

*They are custom made with recycled composite sheets and a tubular metal support structure. The surfaces are treated with anti-bayeric protective.*





### **Mize za šolske in skupne jedilnice**

*Izdelane so po meri  
iz recikliranih kompozitnih plošč in  
kovinskih podpornih ojačitev.  
Površine so obdelane z  
antibakterijsko zaščito.*

### **Tables for school and community refectories**

*They are custom made with recycled  
composite sheets and a metal  
reinforcement structure. The  
surfaces are treated with anti-  
bacterial protective.*





## Kopalniški umivalnik za šole in skupnosti

Izdelani so po meri iz recikliranih kompozitnih plošč, ki so rezkane in zlepljene.

Površine so obdelane z antibakterijsko zaščito.

## *Bathroom sink for schools and communities*

*They are made to measure with recycled composite sheets milled and glued. The surfaces are treated with an antibacterial protectant*



## Montažni moduli začasne dogodke ali stalne informacijske točke

Izdelani so po meri iz recikliranih  
kompozitnih plošč, pritrjenih na  
kovinski okvir.

Te strukture so fiksne ali  
odstranljive.

## *Prefabricated modules for temporary events or permanent info points*

*They are custom made with recycled  
composite sheets fixed to a metal  
frame. These structures can be fixed  
or removable.*





## Notranje klopi

Izdelane so po meri iz recikliranih kompozitnih plošč s kovinskim okvirjem.

Te strukture imajo lahko dva ali več sedežev.

## Indoor benches

*They are custom made from recycled composite sheets with a metal frame.*

*These structures can have two or more seats.*





### **Zunanje klopi**

Izdelani so po meri iz recikliranih kompozitnih plošč in kovinskega okvirja za morebitno pritrditev na betonske nosilce.

Te strukture imajo lahko dva ali več sedežev. Površina je obdelana z zaščitnim sredstvom proti madežem.

### **Outdoor benches**

*They are made to measure with recycled composite sheets and a metal frame for possible fixing to concrete supports.*

*These structures can have two or more seats. The surface is treated with an anti-stain protectant.*





### **Javni zabojniki za smeti**

Izdelani so po meri iz recikliranih kompozitnih plošč in odstranljivega pokrova.

Kombinacija za ločeno zbiranje odpadkov. Površina je obdelana z zaščitnim sredstvom proti madežem.

### **Public dustbin**

*They are custom made with recycled composite sheets and a removable lid.*

*Combination for separate waste collection. The surface is treated with an anti-stain protectant.*





### **Javni koši za smeti**

Izdelani so po meri iz recikliranih kompozitnih plošč in okvirjem držala za vrečke.

### ***Public dustbin***

*They are made to measure with recycled composite sheets and bag holder frame.*



### **Enojni nosilec za kolo**

Monoblok struktura, narejena po meri iz recikliranih kompozitnih plošč. Možen talni sistem pritrditve (na beton ali asfalt). Površina obdelana z zaščito proti madežem.

### ***Public Single bike rack***

*Monobloc structure made to measure with recycled composite sheets. Possible floor fixing system (on concrete or asphalt). Surface treated with anti-stain protector.*





### **Sedež na stebričku**

Monoblok struktura, narejena po meri iz recikliranih kompozitnih plošč. Pritrdilne puše za povezovanje verig ali za dviganje. Površina obdelana z zaščito proti madežem.

### **Bollard-seat**

*Monobloc structure made to measure with recycled composite sheets. Fixing bushes for connecting chains or for lifting. Surface treated with anti-stain protector.*





### **Javni zabojniki za smeti**

Izdelani so po naročilu iz recikliranih kompozitnih plošč, zbranih v okviru projekta RECREATE za občino Spinea.

### **Public dustbin**

*They are custom made with sheets of recycled composites collected as part of the RECREATE project for Spinea.*

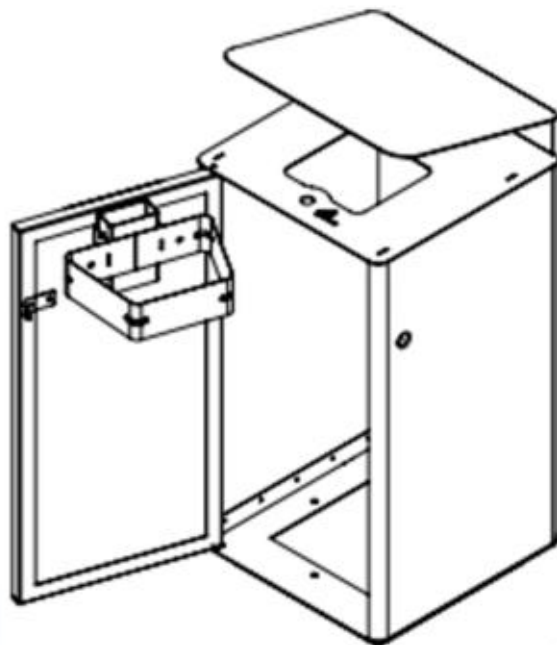


## **Ergonomija**

Okvir in pokrov, odporen proti dežju, iz lakirane kovine z obdelavo proti rjavenju. Tri barve in neizbrisna ikonografija za učinkovito ločeno zbiranje odpadkov.

## **Ergonomics**

*Frame and rainproof lid in painted metal with anti-rust treatment. Three colors and indelible iconography for effective separate waste collection.*



ISO



## Robustna struktura

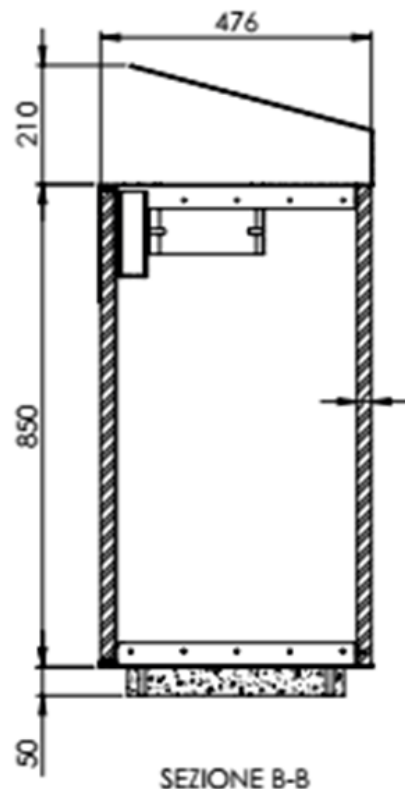
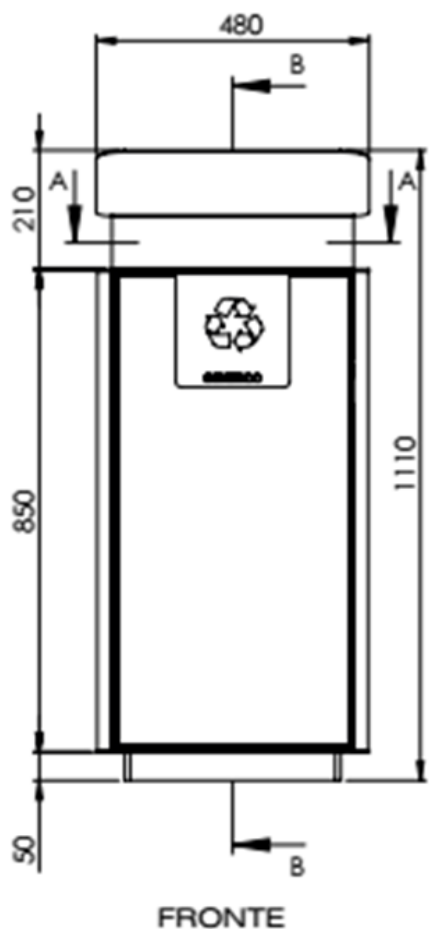
Zgornji pokrov in napisna plošča sta iz lasersko rezane pločevine.

Celotno strukturo podpira kovinski okvir. Držalo za vrečke in zbiralnik cigaret sta trdno zasidrana znotraj vrat, ki se odpirajo in jih je mogoče zakleniti. Reciklirane obodne plošče z debelino 25 mm so protiprebojne. Površina recikliranih plošč je obdelana z zaščitnim sredstvom proti madežem.

## Robust structure

*The top lid and the sign plate are made of laser-cut metal sheet. The entire structure is supported by a metal frame. The bag holder and cigarette collector are firmly anchored inside the lockable hinged door. The recycled perimeter sheets are anti-breakthrough with a thickness of 25 mm. The surface of the recycled sheets is treated with an anti-stain protectant.*



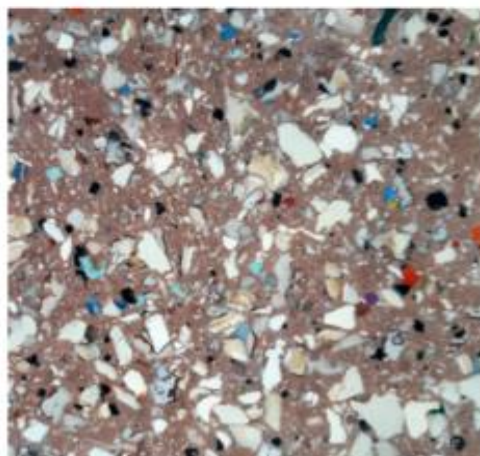
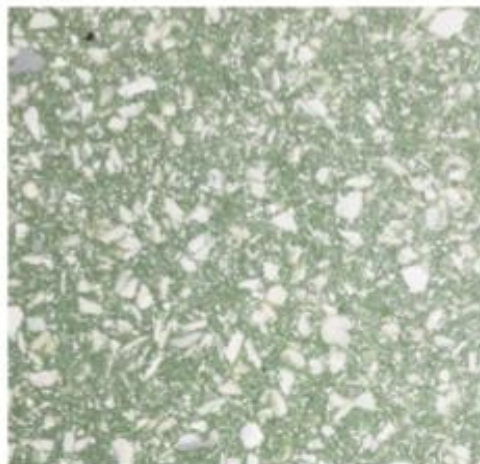
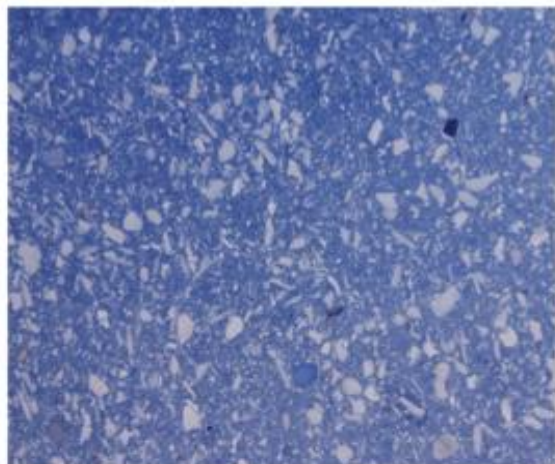


## Pozornost do podrobnosti

V zasnovi so zajete dolgoletne proizvodne izkušnje. Zaobljeni vogali povečujejo odpornost proti udarcem in blažijo nenamerne udarce. Standardne mere za enostavno vključitev v mestno okolje. Uteženi podstavek z luknjami za pritrditev na tla.

## Attention to details

*The design encapsulates a long manufacturing experience. Rounded corners to maximize impact resistance and cushion accidental bumps. Standard dimensions for easy integration into the urban context. Weighted base with ground fixing holes.*



## EKO RECIKLIRANA KOMPOZITNA PLOŠČA

Plošče bodo imele dekorativno teksturo, na katero bo vplivala barva kompozitnih odpadkov, zbranih med projektom. Prav tako bo mogoče dodati naravne pigmente (zeleno / črno / modro / rjavo), da se estetika približa željam, ki jih je izrazila občina Spinea.

### ***ECO' RECYCLED COMPOSITE PANELS***

*The panels will have a decorative texture influenced by the color of the composite waste collected during the project. It will also be possible to add natural pigments (green / black / blue / brown) to guide the aesthetics towards a preference indicated by the municipality of Spinea.*



# Šolski izobraževalni izdelki

## School educational items



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## LABIRINT V ŠKATLI

Ta izkušnja otroke nauči, kako vsa živa bitja potrebujejo svetlobo, hkrati pa je tudi dober trening potrpežljivosti. Po nekaj dneh bomo videli, kako rastlina pride iz luknje, in z dvigom pokrova bomo ugotovili, da je sledila labirintu iz recikliranih kompozitnih plošč.

## THE LABYRINTH IN A BOX

*This experience teaches children how all living things need light, but it's also a nice training in patience. After a few days we will see the plant come out of the hole and by lifting the lid we will discover that it has followed the labyrinth made of recycled composite plates.*







## HIŠA ZA ŽUŽELKE (HOTEL ZA ŽUŽELKE)

Hišica za žuželke iz recikliranih kompozitov je konstrukcija, ki nudi zavetje in zaščito različnim vrstam žuželk, uporabnih na vrtu ali zelenjavnem vrtičku. Žuželke imajo namreč temeljno vlogo v ekosistemu, saj so opraševalci in naravni plenilci drugih zajedavcev.

## THE HOUSE FOR INSECTS (BUG HOTEL)

*An insect house made of recycled composites is a structure that offers shelter and protection to different species of insects useful for the garden or vegetable patch. Insects, in fact, play a fundamental role in the ecosystem, both as pollinators and as natural predators of other parasites.*



## NAVPIČNI VRT

Struktura iz recikliranih kompozitnih plošč, ki omogoča gojenje rastlin v navpičnih ploščah, nameščenih na stene ali samonosnih.

Vertikalno zelenje lahko namestimo tako v notranjih kot zunanjih prostorih. Za učenje načel botanike in pomena »zelene« in pravilne uporabe tal.

## VERTICAL GARDEN

*A structure made of recycled composite sheets that allows the cultivation of plants in vertical panels placed on walls or self-supporting.*

*Vertical greenery can be installed both indoors and outdoors. To teach principles of botany and the importance of "green" and correct use of the soil.*







# Reciklirani materiali za industrijsko uporabo

## **Recycled materials for industrial applications**



GEES  
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## RECIKLIRANE KOMPOZITNE PLOŠČE D'ECO'

Plošče D'ecò z gostoto 1100 kg m<sup>3</sup> imajo dekorativno teksturo in se »vidno« uporabljajo zaradi svojih estetskih lastnosti, ki sporočajo trajnost.

Videz je določen z mešanjem sekundarnih surovin z naravnimi pigmenti.

Standardni format plošče je 1240 x 2500 mm.

### *D'ECO' RECYCLED COMPOSITE PANELS*

*The D'ecò panels with a density of 1100 kg m<sup>3</sup> have a decorative texture and are used "visibly" for their aesthetic qualities which communicate sustainability. The appearance is determined by mixing secondary raw materials with natural pigmentates. The standard sheet format is 1240 x 2500 mm.*



## OSNOVNE RECIKLIRANE KOMPOZITNE PLOŠČE

Gradbeni materiali ali polnilni materiali (jedro za izdelavo sendvič ali laminatnih plošč) z gostoto med 550 in 1100 kg m<sup>3</sup>. Lahko nadomestijo lesene plošče (zlasti vodoodbojne), saj ne vpijajo vode.

Recomplax Basic je na voljo v standardnem formatu 1240 x 2500 mm.

### ***BASIC RECYCLED COMPOSITE PANELS***

*Construction or filling materials (e.g. core material to make sandwich or laminate panels) with a density between 550 and 1100 kg m<sup>3</sup>. They can replace wooden panels (especially water-repellent ones) because they do not absorb water.*

*Recomplax Basic is available in the standard 1240 x 2500 mm format.*





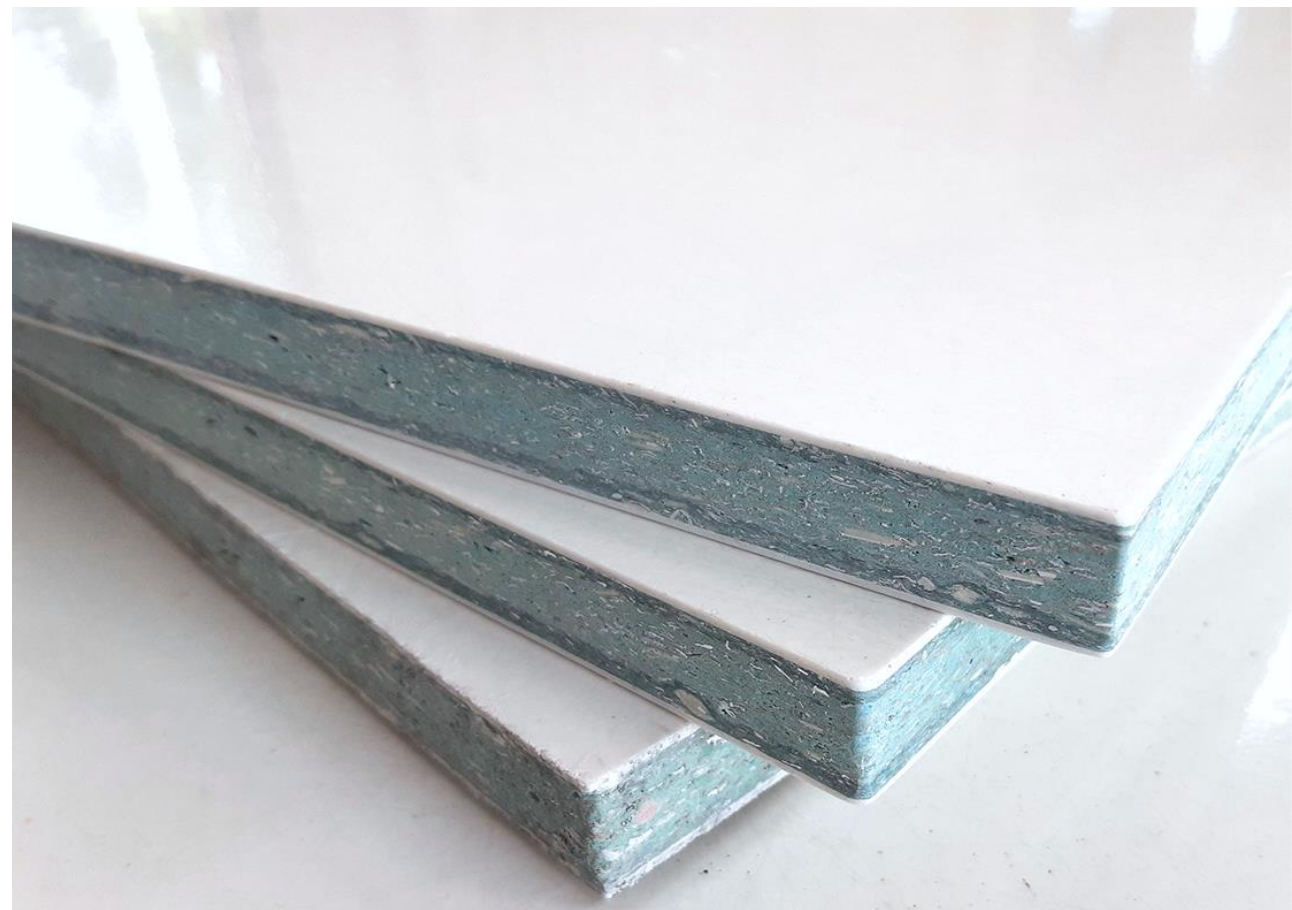


## KOMPOZITNE PLOŠČE REPLYES

Troslojna kompozitna plošča, ojačana z vlakni, z recikliranim jedrom. Strukturna, predpripravljena in ekološko trajnostna struktura. Učinkovitost na najvišji ravni v ekstremnih podnebnih in okoljskih razmerah, vodoodbojna, odporna na ksilofagne žuželkam, brez formaldehida. Oblika po meri.

## REPLYES COMPOSITE PANELS

*Triple layer fibre-reinforced composite panel with recycled core. A structural, pre-finished and eco-sustainable structure. Performance at the highest levels in the presence of extreme climatic and environmental conditions, water-repellent, resistant to xylophagous insects, free of formaldehyde. Customized format.*



## UPORABNOST RECIKLIRANIH PLOŠČ

Različne vrste recikliranih kompozitnih plošč je mogoče obdelovati kot les, dodatna prednost je, da so narejene iz recikliranih duroplastičnih materialov; vrtanje, rezkanje, pripenjanje, lepljenje, laminiranje, barvanje.

## WORKABILITY OF RECYCLED SLABS

*The various types of recycled composite sheets are workable like wood, with the additional advantage of being made of recycled thermosetting plastics; drilling, milling, pinning, gluing, lamination, painting*





**Interreg**  
**Italia-Slovenija**

RECREATE



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dall'Unione europea  
Sofinancira  
Evropska unija



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# BRERA

A C C A D E M I A D I B E L L E A R T I

Delavnica **M A T E R I A L M E N T E**  
INOVACIJSKI MATERIALI 14. november–30. december  
2023

Workshop **M A T E R I A L M E N T E**  
THE MATERIAL OF INVENTION  
November 14 - December 30, 2023

**1) EKIPA** : Chiara Russi (P) Shiqi Chen (D) Yuhao Zou (D) Martin Calderon (NTA)

## Cilj projekta

### Izdelek odnosa

Želimo, da naš projekt predstavlja stičišče za skupnost Spinea.  
Odražati mora socialne in medsebojne potrebe območja.

### Izobraževanje za trajnost

Gees zbira odpadke s tega območja in nato ozemlju vrne nekaj novega. Projekt bi lahko opisal svoj izvor.

## Obveščanje o industrijskih in družbenih procesih

## The objective of the project

### Product of Relationship

We want our project to represent a meeting point for the community of Spinea. It should reflect the social and relational needs of the area.

### Educating for Sustainability

Gees collects waste from the territory and then gives back something new to the territory. The project could narrate its origin.

## Communicating about industrial and social processes

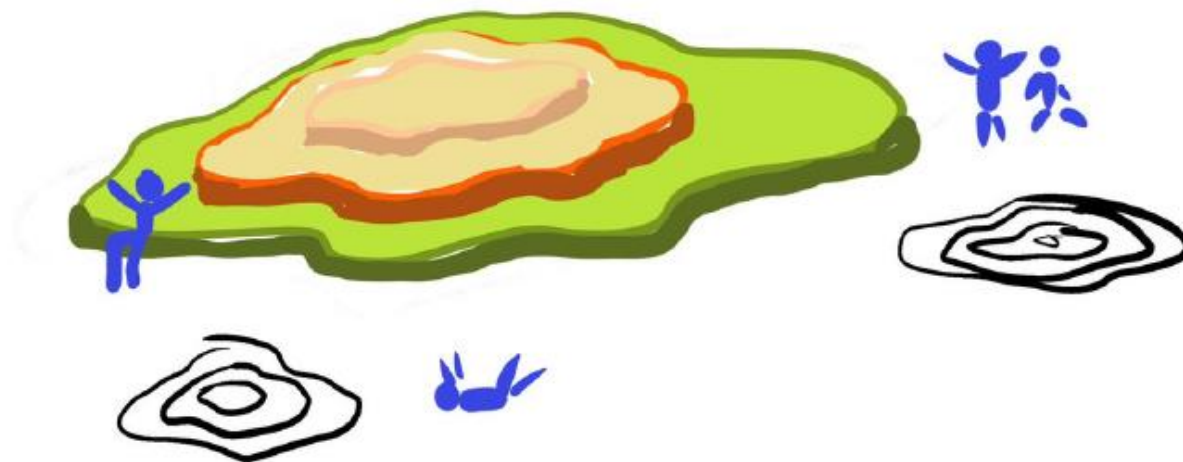
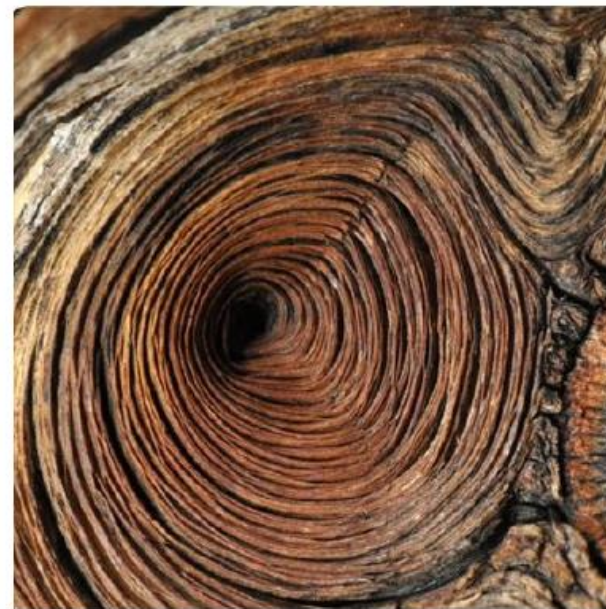
## Projekt

Ustvarite strukture, ki lahko služijo kot prostor za sedenje in zbirališče za skupnost. Obdane so z rastlinami, ki preprečujejo onesnaževanje.

## The Project

Create structures that can serve as seating and a gathering point for the community. Integrated with plants to counteract the problem of pollution.

il ciclo della vita  
la seconda vita di  
espansione del vita





## Preprečevanje onesnaževanje zraka

Izhajajoč iz problematike onesnaženega zraka, smo razmišljali o tem, da bi v strukturo vključili rastline, ki lahko absorbirajo onesnaženje v večjih količinah in občanom vračajo čist zrak.

## Counteract air pollution

Starting from the problem of polluted air, we have thought of integrating the structure with plants that can absorb pollution in larger quantities and return clean air to the citizens.

ligustro



elagneo



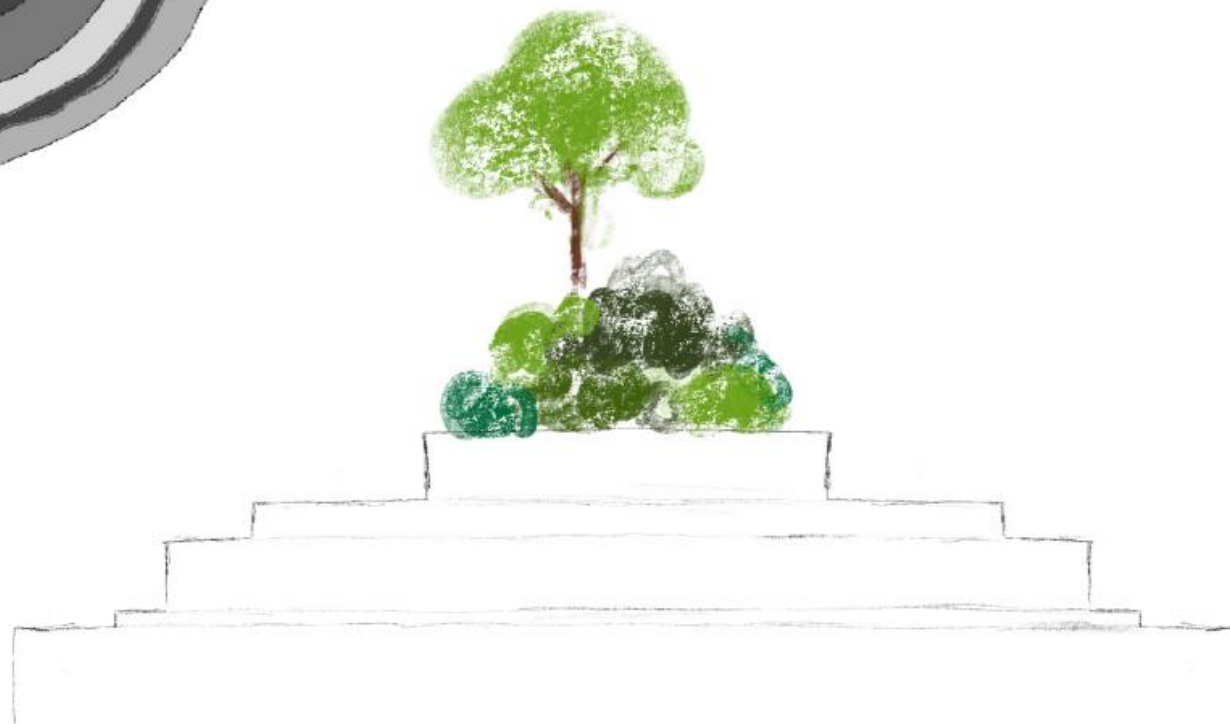
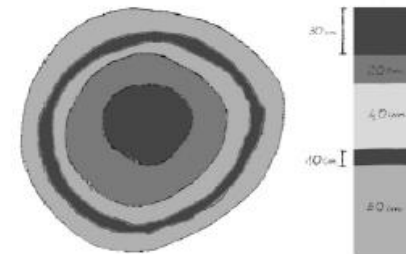
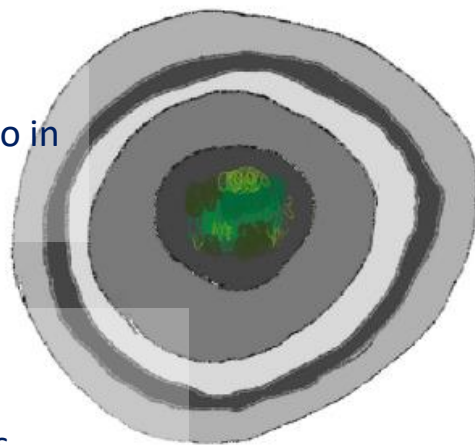
viburno lucido

## Vključevanje rastlin

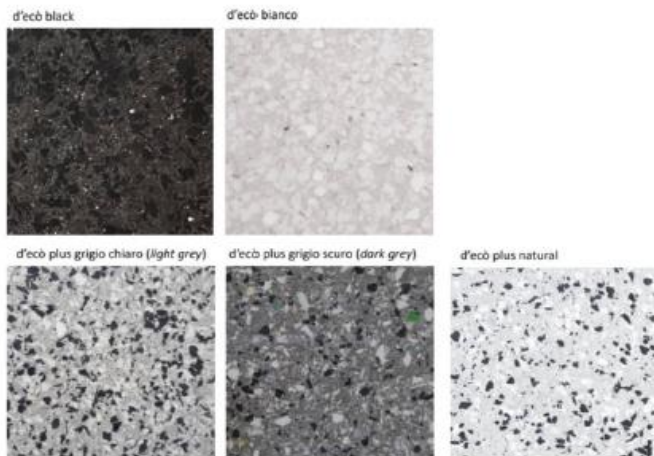
Prisotnost rastlin v instalaciji simbolizira kontinuiteto in pomembnost življenja ter spominja na čudovitost naravnega sveta in krog življenja.

## Incorporation of Plants

The presence of plants in the installation symbolizes continuity and the importance of life, evoking the wonder of the natural world and the cycle of life.







Obročki različnih barv za popestritev  
odtenkov ekološke linije.

Rings of various colors to enhance the  
hues of the eco line.







## Prostor za srečanja in druženje

Vzpostavitev rekreacijskega  
območja za skupnost,  
sestavljene iz modularnih  
elementov.

## A meeting and gathering place

Creation of a recreational area  
for the community, made up of  
modular elements.



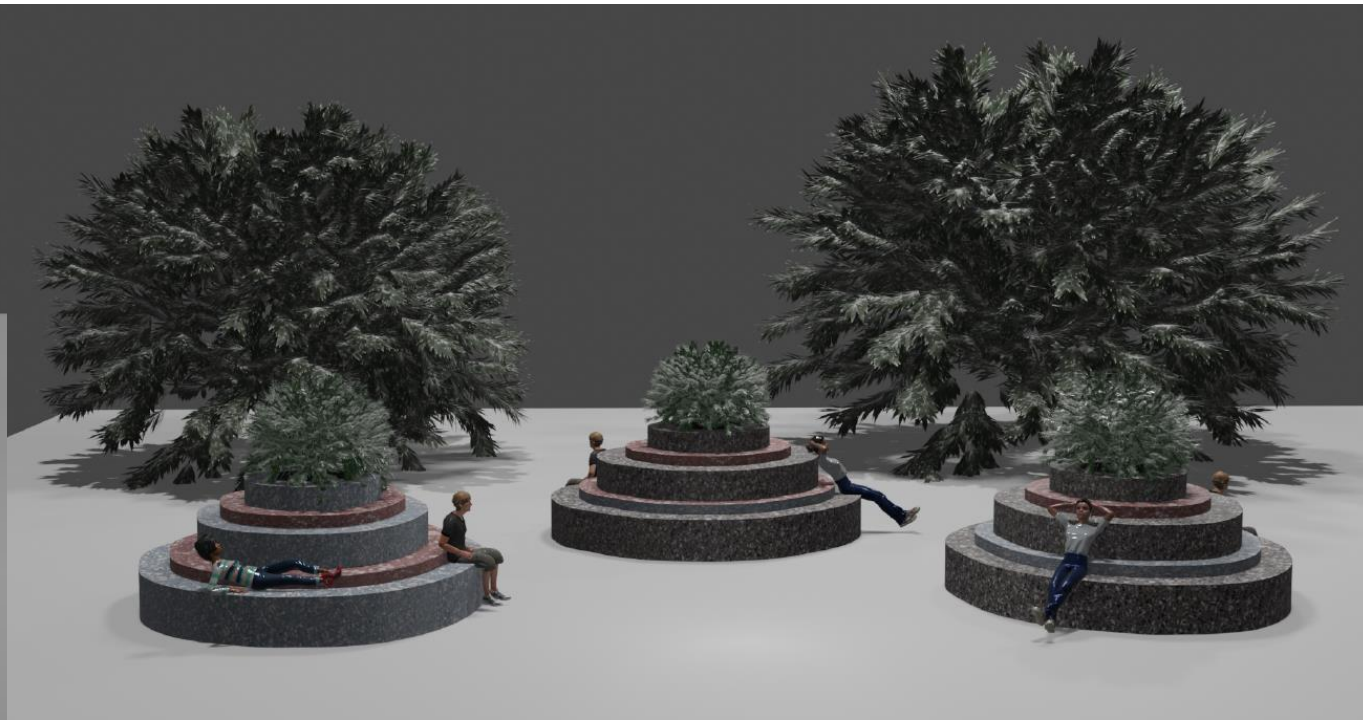


## Prostor za srečanja in druženje

Vzpostavitev rekreacijskega območja za skupnost, sestavljenega iz modularnih elementov.

## A meeting and gathering place

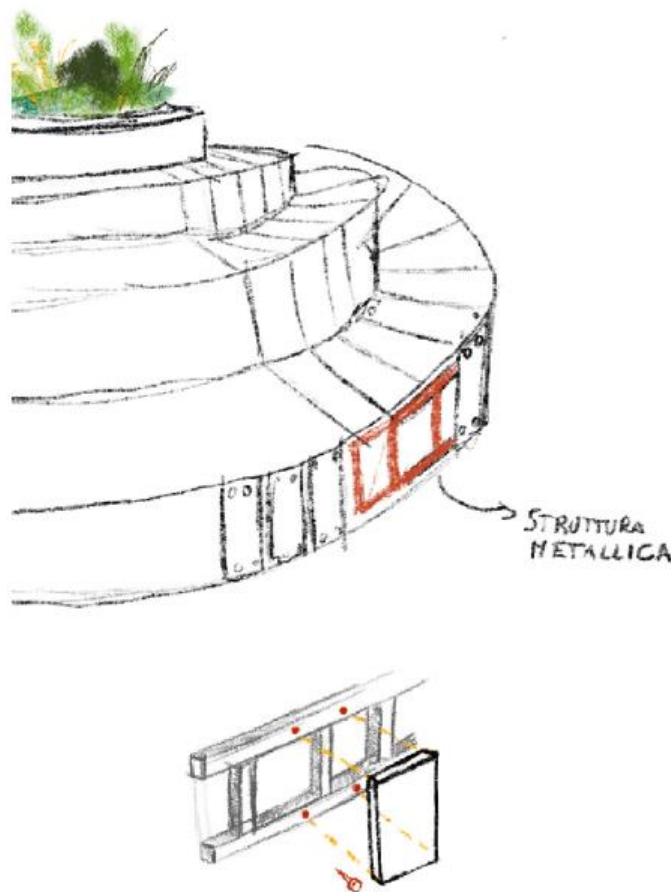
Creation of a recreational area for the community, made up of modular elements.





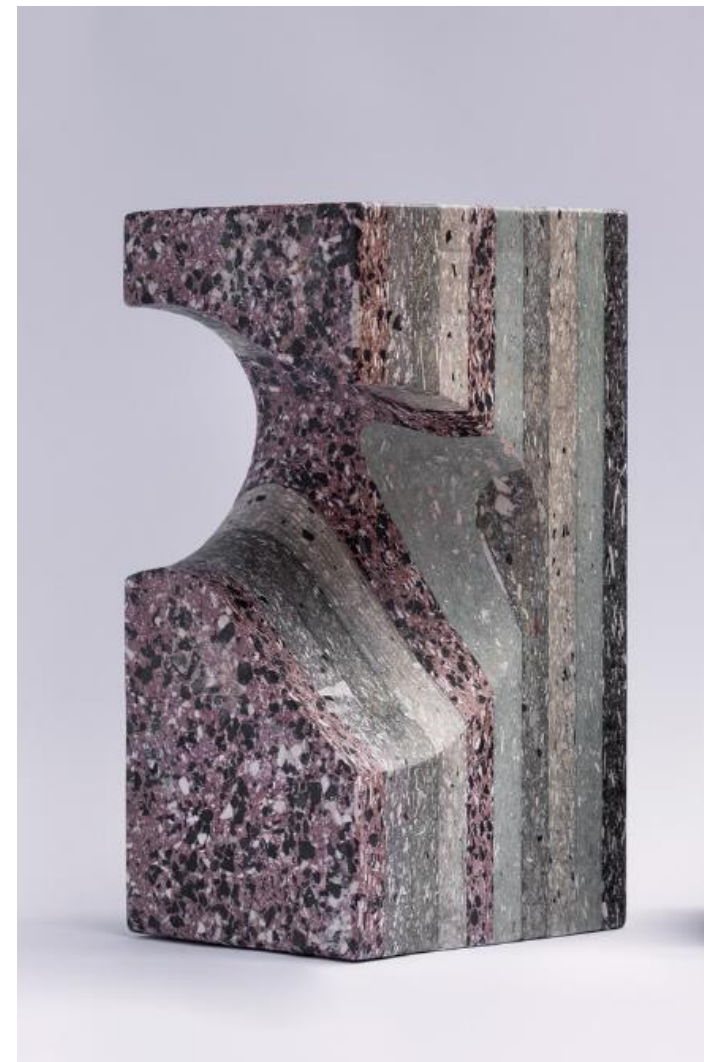
## Osnova strukture

Razmišljali smo o možnosti razbremenitve strukture z drugimi vrstami podlage in prišli do teh treh rešitev:

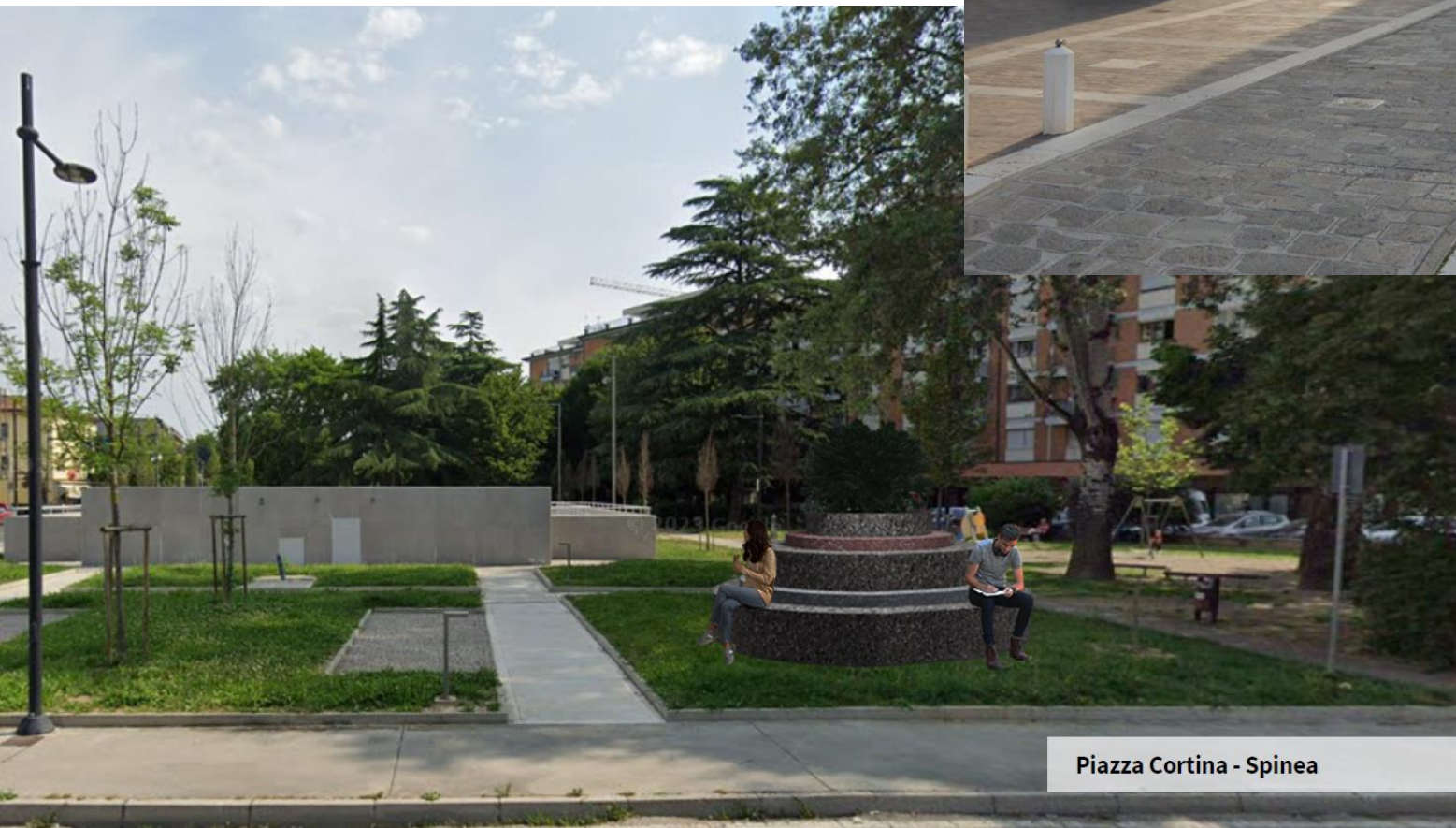


## The base of the structure

We have considered the possibility of lightening the structure by thinking of other types of bases, and we have come to these three solutions:







Piazza Cortina - Spinea



Piazza Marconi- Spinea



## Talni ali stenski mozaik

Oblikujte vzorec, ki ga želite ustvariti z mozaikom z uporabo majhnih ploščic ali večjih kosov materiala. To omogoča izboljšanje barvnih lastnosti materiala. Poleg tega bi lahko, če bi bili kosi majhni, predvideli, da se v izvedbo projekta vključi skupnost sama z dodelitvijo ploščic, ki jih je treba postaviti.

## Floor or wall mosaic

Design a pattern to be created with a mosaic using small tiles or larger pieces of material. This allows for the enhancement of the material's chromatic qualities. Moreover, if the pieces were small, it could be envisioned to involve the community itself in the realization of the project by assigning tiles to be placed.



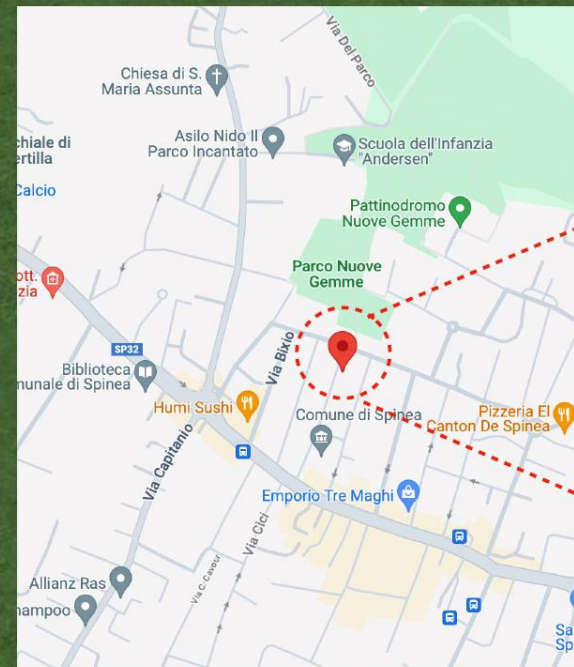
**2) EKIPA:** Carlotta Gariboldi, Songhe Du, Daniela Illari, Tong An.







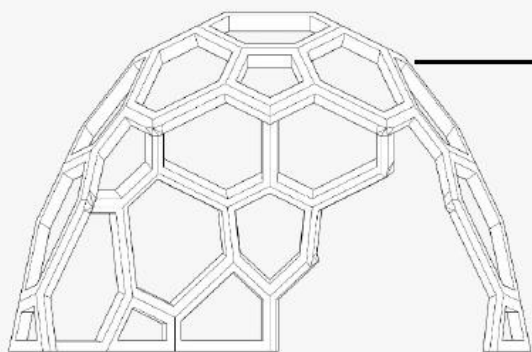
## Scuola secondaria di 1° grado 'Giuseppe Ungaretti'





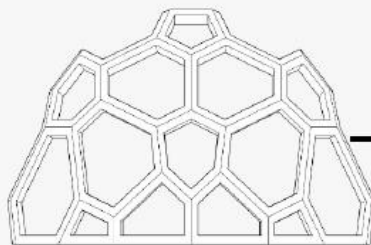
## Progetto 3D

## 3d Project



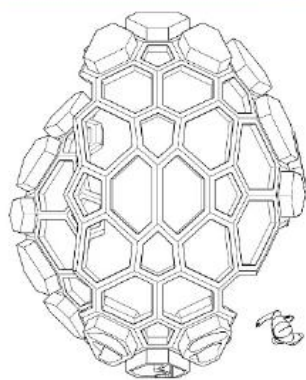
Visione laterale  
con ingresso

Pogled s strani z  
vhodom  
Side version with  
entrance



Visione frontale  
laterale

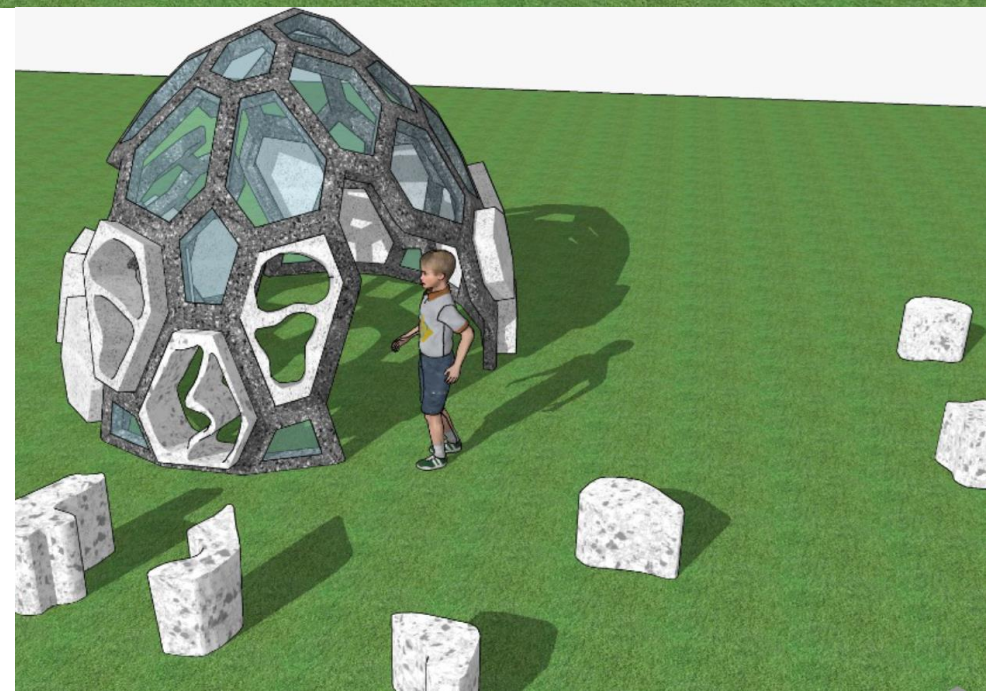
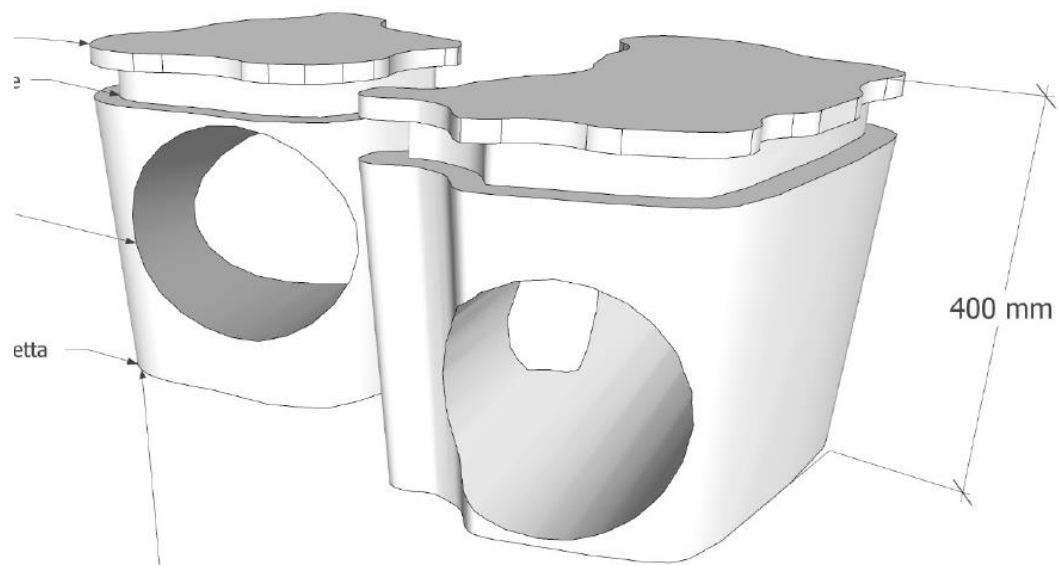
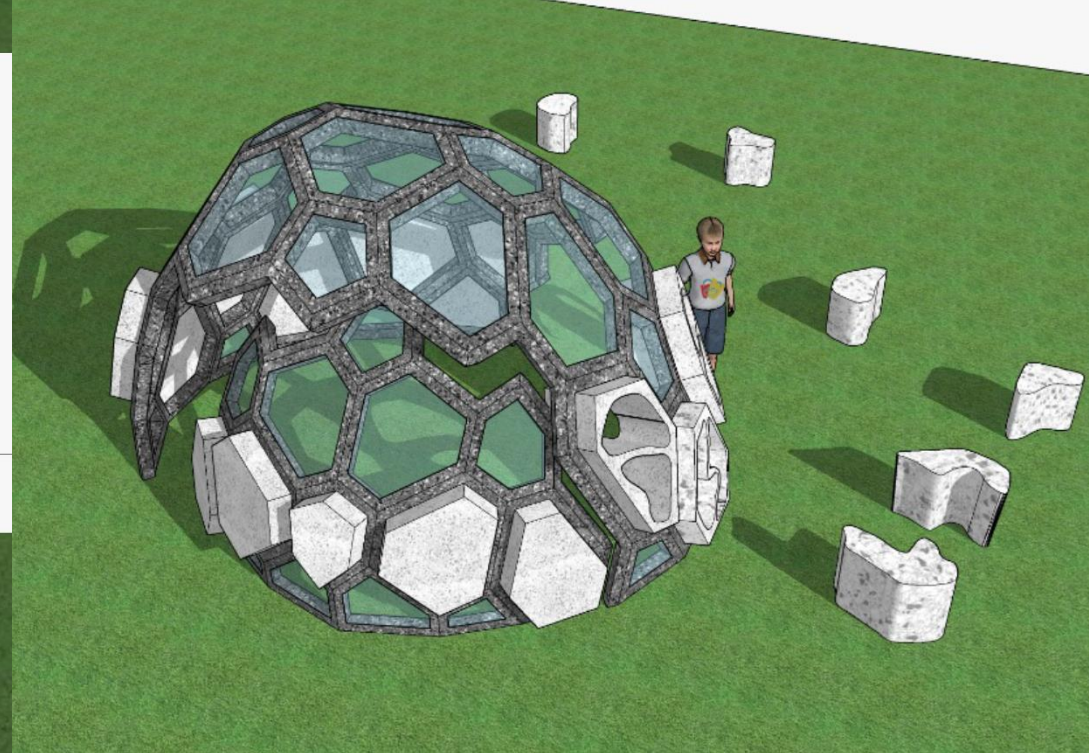
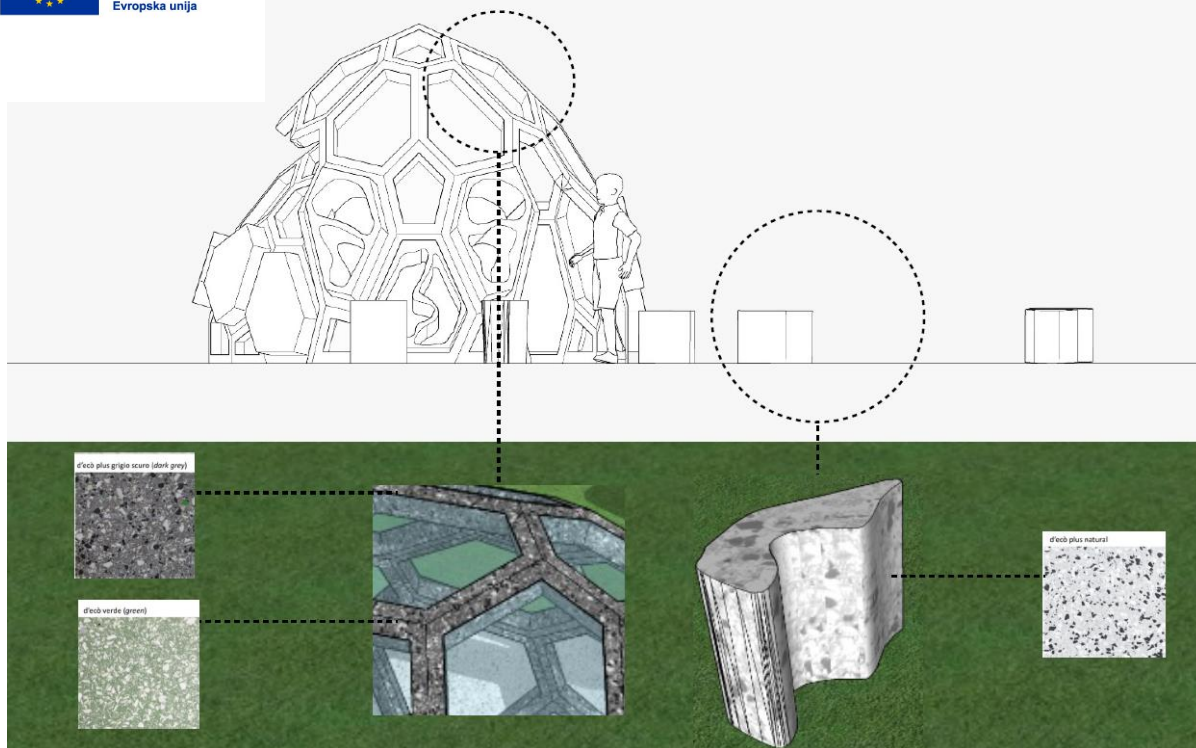
Prednji/frontalni  
pogled s strani  
Lateral frontal  
version



Visione dall'alto

Pogled od zgoraj  
Top view









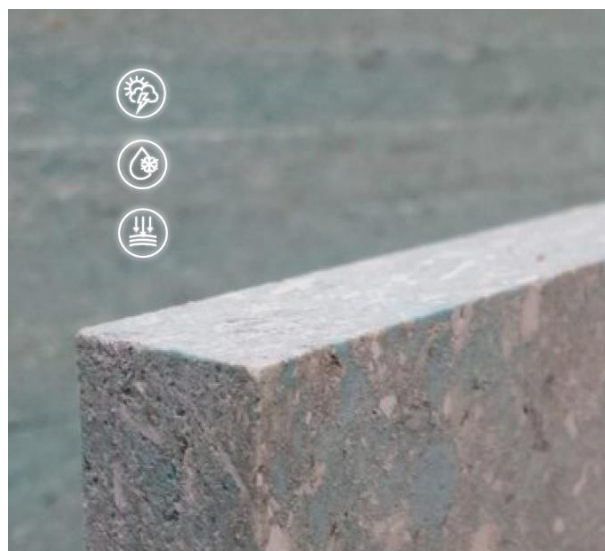
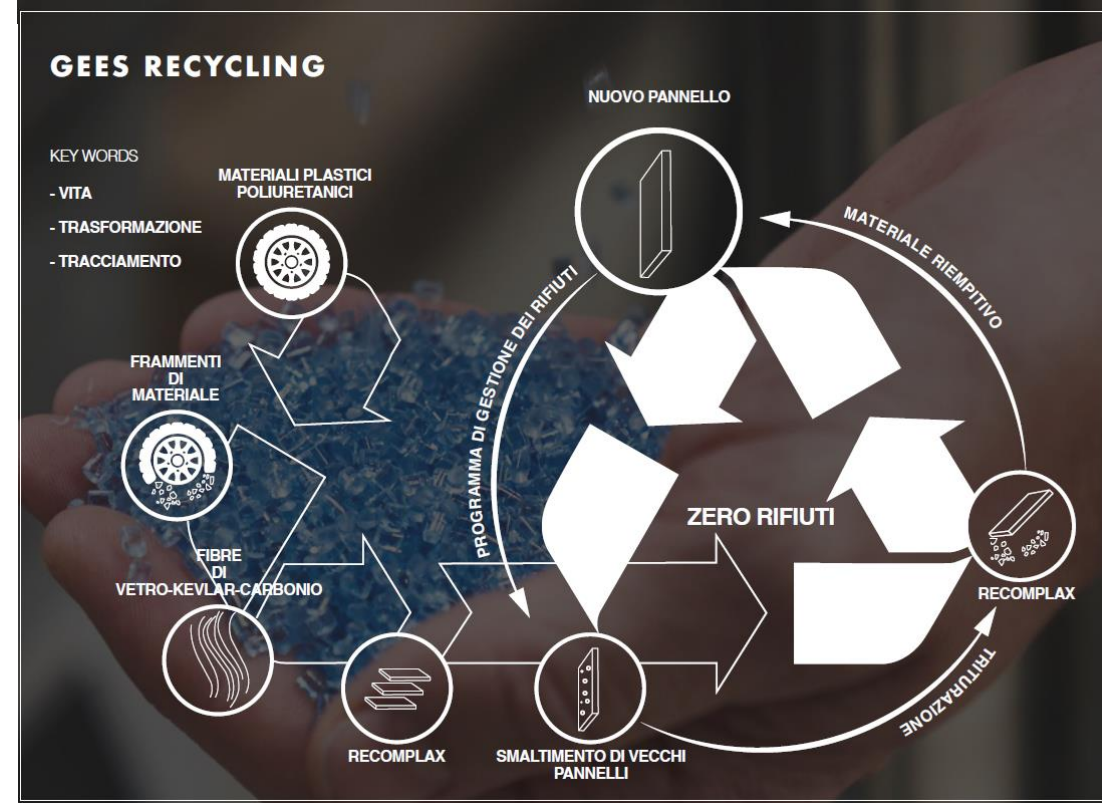


## PREUČEVANJE GRADIVA

SENZORIČNE IN TEHNIČNE  
ZNAČILNOSTI

## STUDY OF THE MATERIAL

SENSORY & TECHNICAL  
CHARACTERISTICS



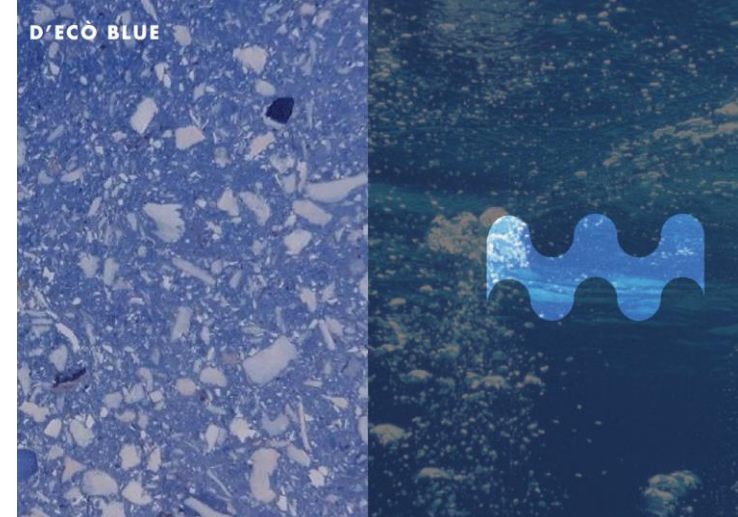
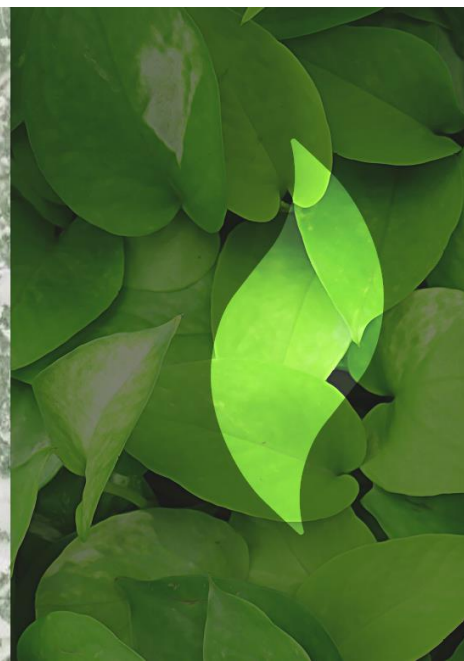
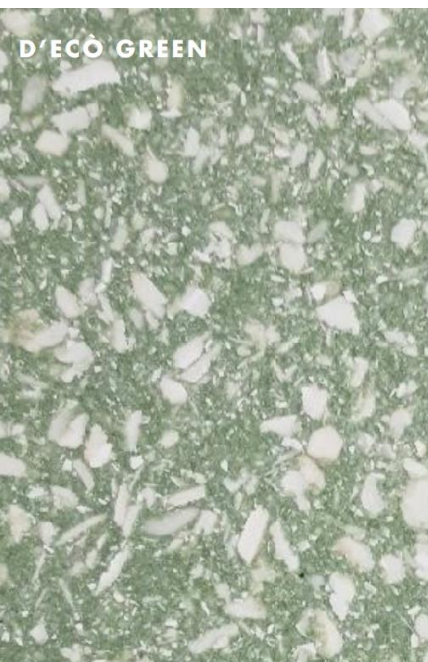
### RECOMPLAX BASIC

La densità omogenea del pannello (550 -700 - 1100 kg/m3) garantisce robustezza all'intera sezione, consentendo anche una lavorazione tridimensionale della lastra.

NOME	CODICE	PESO	W*H (mm)	DENSITÀ
@Basic 10-28	N/A	21<39	2500*1240	>550Kg/m³
@Basic 12mm	N/A	24<56,5	2500*1240	>700Kg/m³
@Basic 15mm	N/A	34,2<95,5	2500*1240	>1100Kg/m³

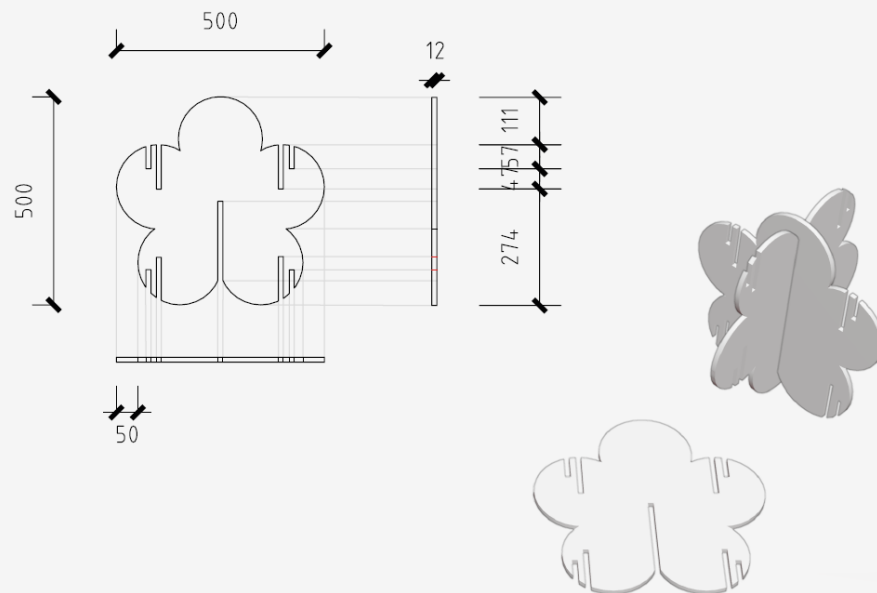




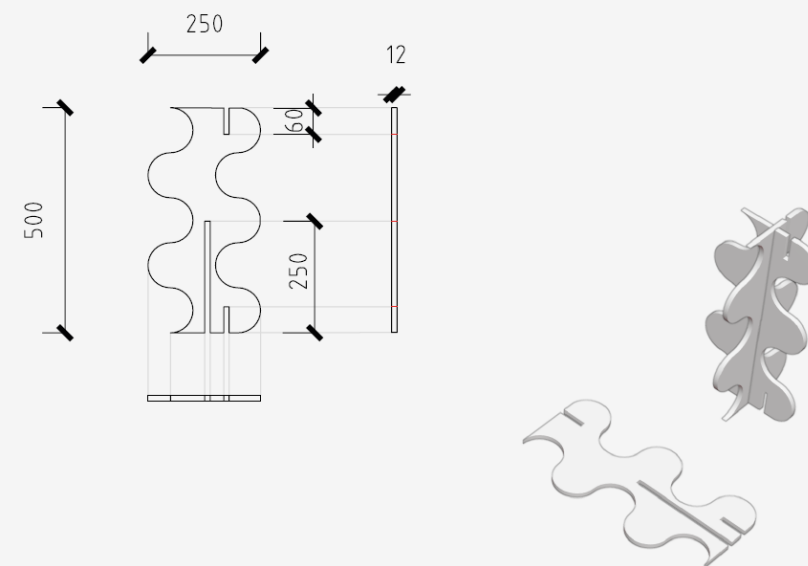




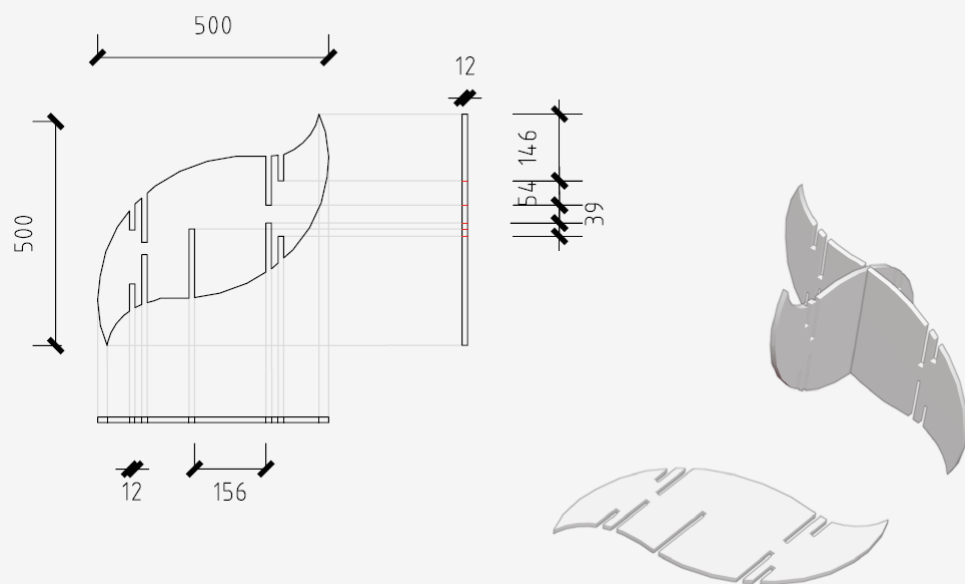
## HARMONY - FIORE 1:20



## HARMONY - ACQUA 1:20



## HARMONY - FOGLIA 1:20



## HARMONY - FRUTTA 1:20

