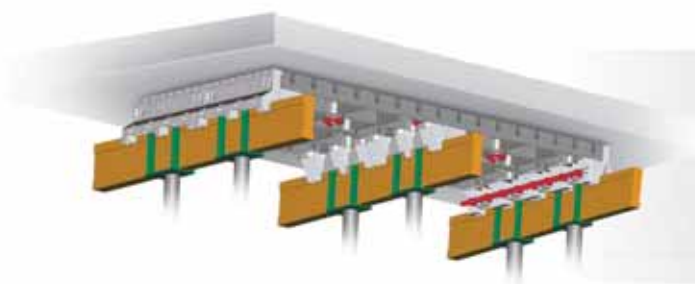




GEOSKY®



Plastic formwork system for advanced slab dismantling



casseforme
formwork

GEOSKY® ADVANTAGES



TECNOLOGY

GEOSKY® is an innovative system that has the excellent resistance and lightness of plastic and fulfills the requirements of the building industry.

ADVANCED DISMANTLING

GEOSKY® makes partial dismantling of the panels possible after just one day (depending from the slab type, the concrete grade used and the season). Advanced dismantling is possible thanks to the sliding wedge system.

FAST SET-UP

The simple mechanical device of **GEOSKY®** speeds up the assembling and stripping operations thanks to the lightness of each element. This is the reason why time is saved compared to traditional formwork systems.

FLEXIBILITY

No special panels are needed with **GEOSKY®** as it uses the same panels (Geopanel) employed to make walls.

SAFETY

Thanks to the access from below, **GEOSKY®** allows safer working conditions avoiding fall hazard during both setup and dismantling.

EASY HANDLING

Each **GEOSKY®** element is made of plastic: the maximum weight is 11 kg and one person can set-up the product by himself.

SIMPLIFIED LOGISTICS

GEOSKY® reduces the amount of material needed at the construction site.

APPLICATION FIELDS

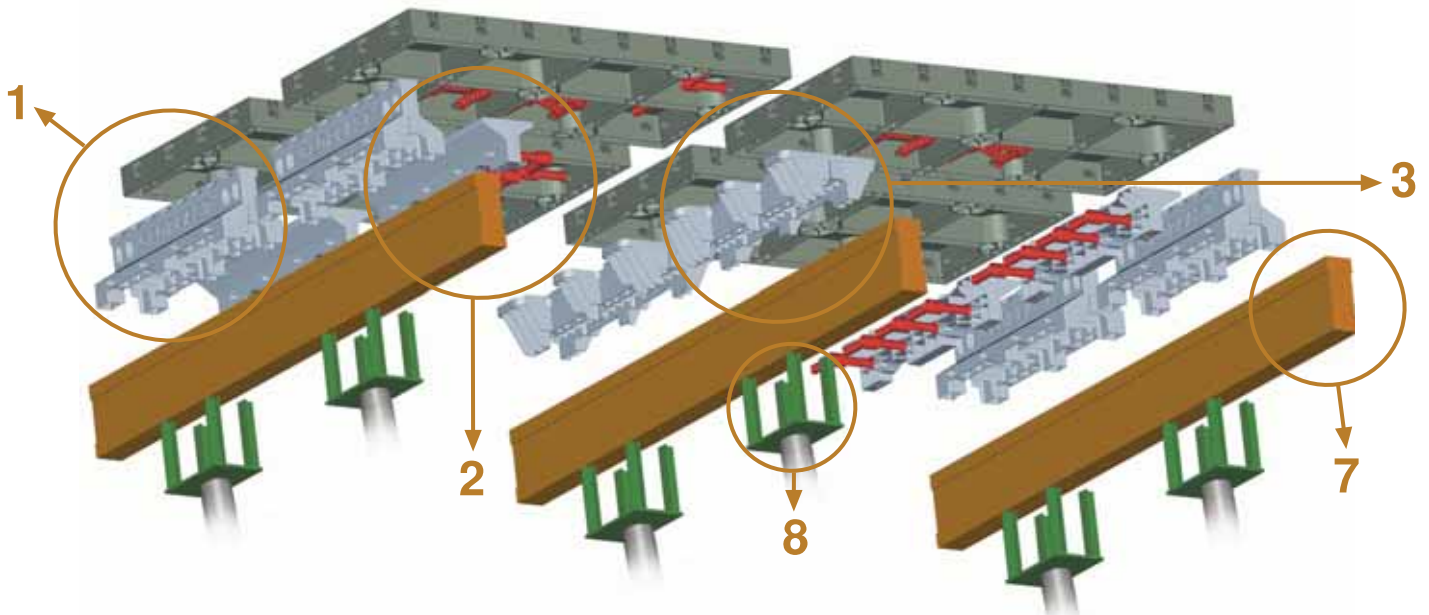
GEOSKY® is suitable for the construction of slabs in multi-storey car parks, commercial, industrial- and residential buildings.

EASY CLEANSING

As concrete does not stick to plastic, dismantling is easy and cleansing simple: just use water, without any need for specific detergents.



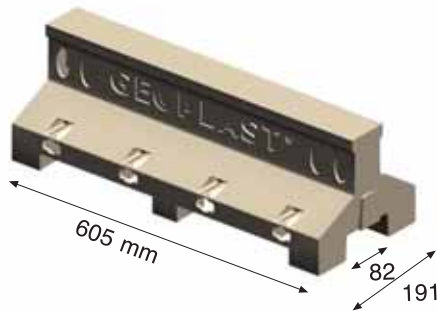
GEOSKY® COMPONENTS



1

Y-BEAM . L 60 cm
(act. size L 60,5 cm) MATERIAL: ABS . WEIGHT: 3.10 kg

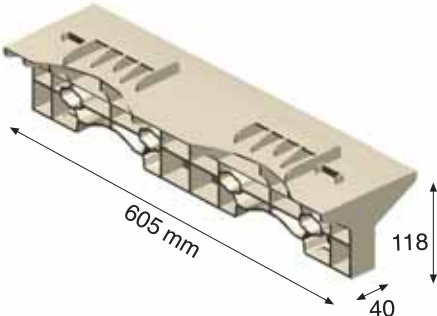
It lodges onto standard H20 timber beams. The wedge is joined by the simple 90 degree rotation of the handles.



2

WEDGE . L 60 cm
(act. size L 60,5 cm) MATERIAL: ABS . WEIGHT: 1.80 kg

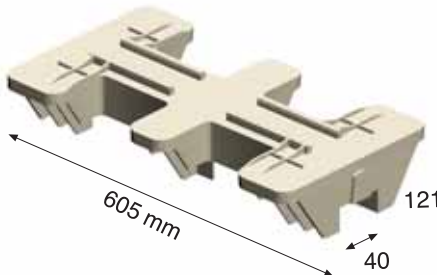
This element allows the advanced dismantling of the slab formwork: detaching the wedge from the Y-beam, the panel can be freely removed from under the concrete slab.



3

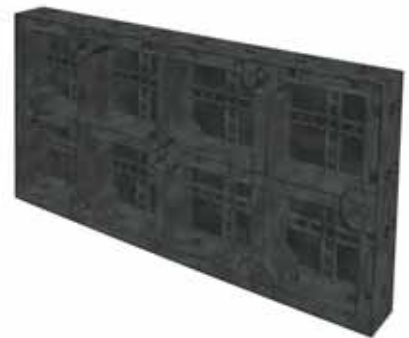
H-BEAM . L 60 cm
(act. size L 60,5 cm) MATERIAL: ABS . WEIGHT: 3.30 kg

This element acts as the crosspiece and is among the first elements to be removed during dismantling together with its woods beam and the posts.



4

GEOPANEL® . ELEMENT 120 X H 60 cm
(act. size 121 X 60,5 cm) MATERIAL: ABS . WEIGHT: 11 kg



5

HANDLE
MATERIAL: Nylon
WEIGHT: 0.101 Kg



6

CAP for spacers
MATERIAL: PEHD
WEIGHT: 0.006 kg



7

H20 BEAM with end reinforcement
MATERIAL: Wood



8

FORKHEAD
MATERIAL: Steel



9

PROP high load bearing capacity
MATERIAL: Steel



MATERIAL	Flexural modulus N/mm ²	Tensile strength N/mm ²	Coefficient of thermal expansion
ABS	2100	45	0.05 (mm/m/°C)
Nylon	2200	70	7 - 10 (1/K 10 ⁻⁵)

GEOSKY® SETUP AND DISMANTLING

GEOSKY® SETUP

1



Place pre-assembled Y-beam and wedges

2



Place the H-beam

3



Place the GEOPANEL® 120 panel

4



Block the panels onto the Y-beams

5



Fully assembled GEOSKY®

GEOSKY® PARTIAL ADVANCED DISMANTLING

1



Remove the H-beams

2



Remove the wedges

3



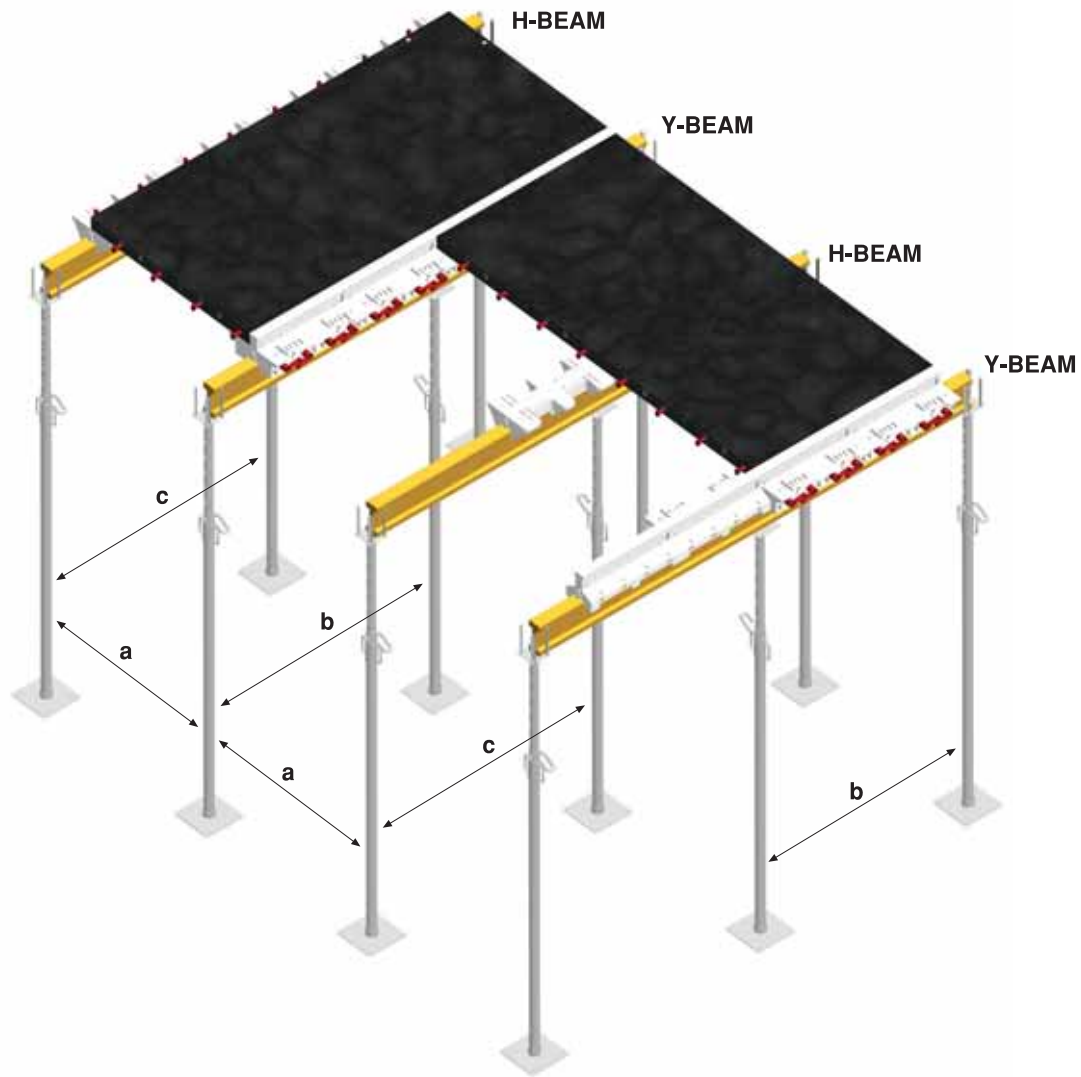
Remove the panels

4



Final result

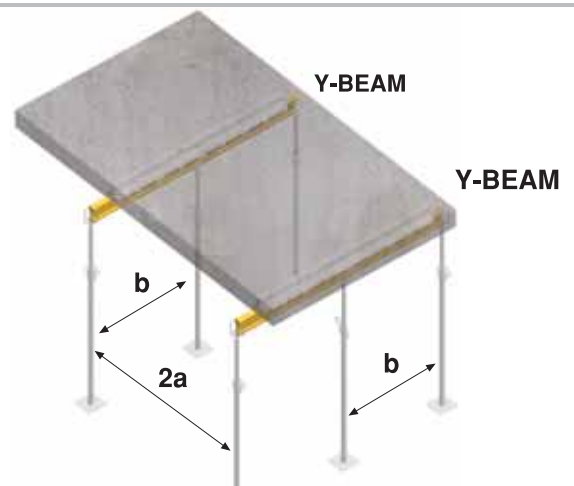
GEOSKY® SETUP AND DISMANTLING

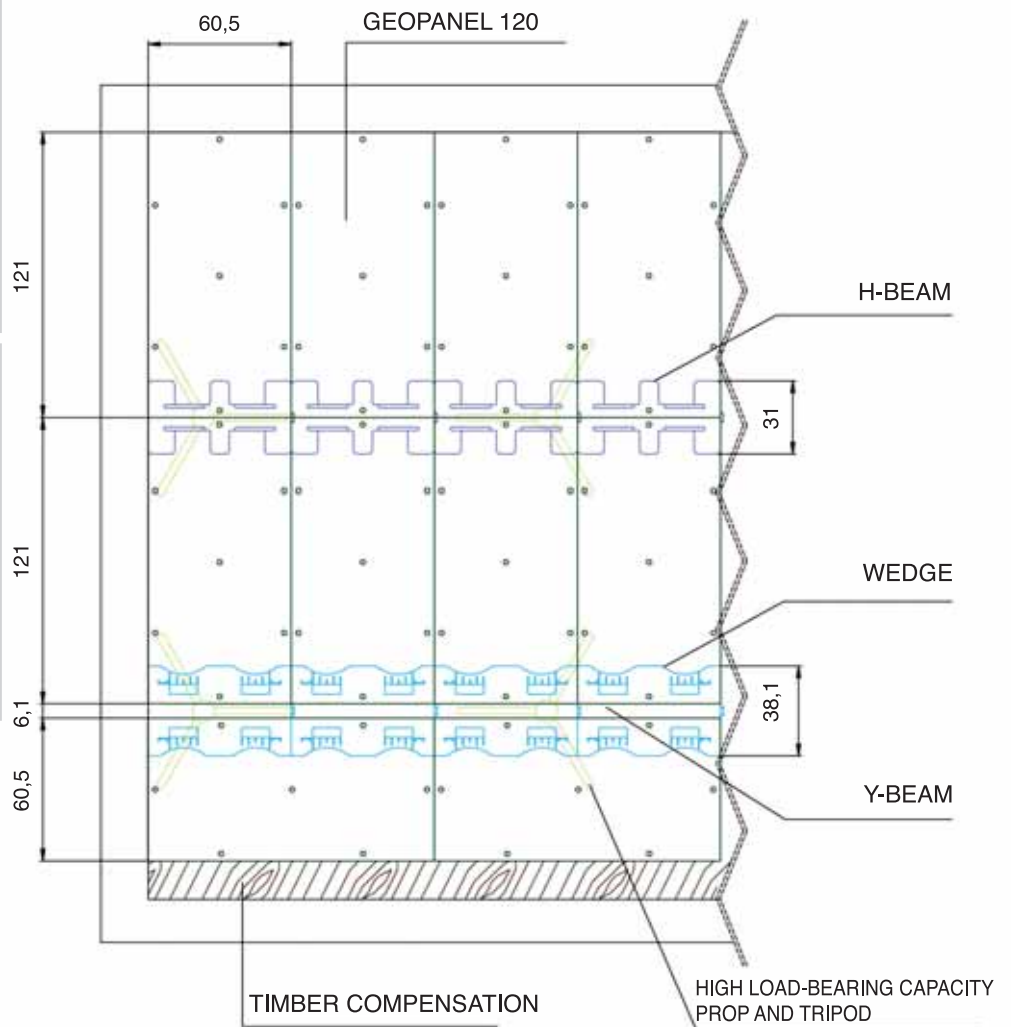


THICKNESS OF THE REINFORCED CONCRETE SLAB (cm)

		15	20	20	25	30	35	40
a	Spacing of the beams [a] (cm)	124	124	124	124	63,5	63,5	63,5
b	Spacing of the Y-beams props [b] (cm)	150	150	100	100	150	150	100
c	Spacing of the H-beams props [c] (cm)	150	150	150	150	150	150	150
	Maximum overload per prop	16 kN 1.600 kg	20 kN 2.000 kg	14 kN 1.400 kg	17 kN 1.700 kg	16 kN 1.600 kg	18 kN 1.800 kg	14 kN 1.400 kg

DISMANTLING



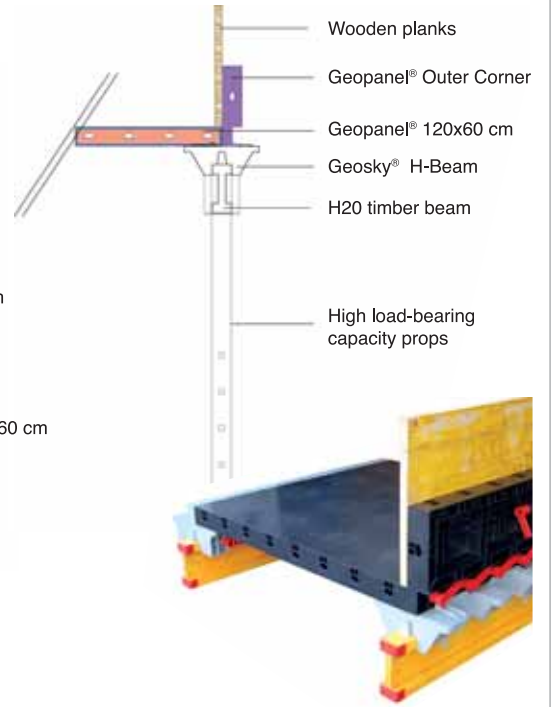
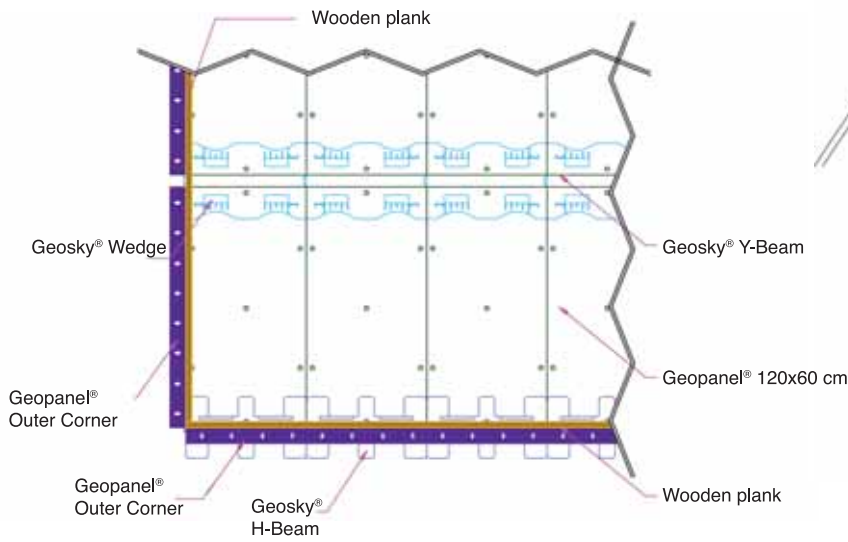


* All dimensions are expressed in cm.

The panels of the **GEOSKY®** system can be placed with at centres 120 cm or 60 cm. Close to perimetral walls, columns, elevator shafts, etc. compensation is required with Geopanel® 25, 30 or 40 cm, or timber for other gaps.

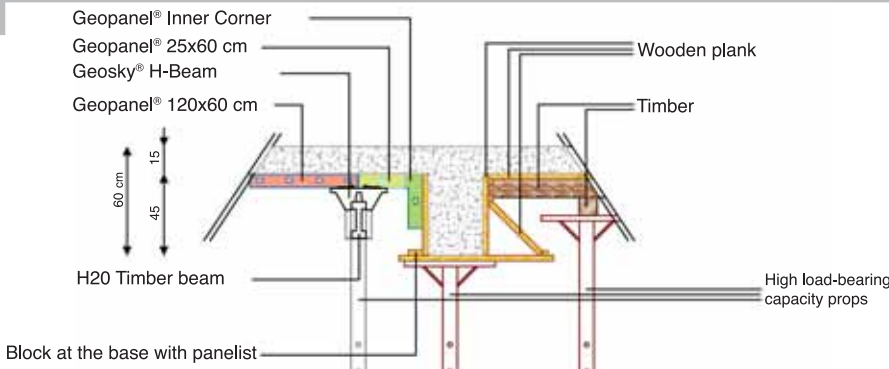


1

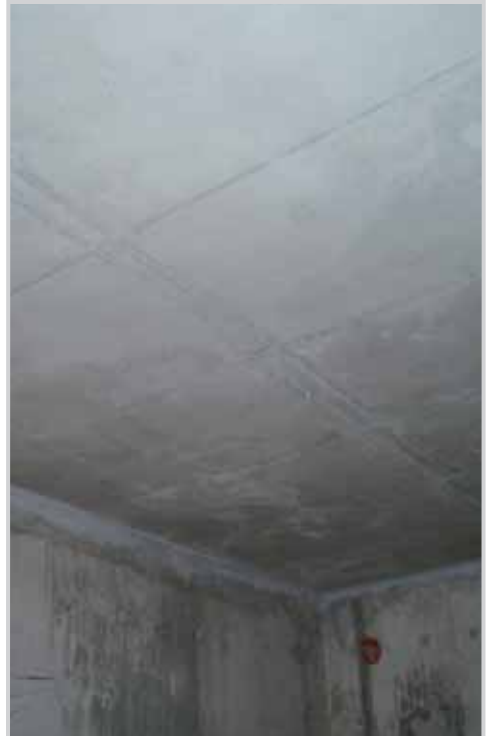


Solution for the closure of a slab with GEOPANEL® outer corner and timber

2



Solution for monolithic slab and beams





Disclaimer: the values shown in this brochure are for guidance only. They are not meant to be used for design criteria. Their use and reliance thereon for any purpose by anyone is entirely voluntary and at the sole risk of the user. GEOPLAST is not responsible for any loss, claim, or damage resulting from their use.

CUSTOMER SERVICE: PROJECT DEVELOPMENT

Send your projects in DWG format to ufficiotecnico@geoplast.it

ASSEMBLY HANDBOOK AND TECHNICAL SPECIFICATIONS

Available in our website www.geoplast.it in the "Area Download" section

Authorized dealer:



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35010 Grantorto (PD) - Italy
tel +39 049 9490289 - fax +39 049 9494028
e-mail: geoplast@geoplast.it - www.geoplast.it

GEOSKY RESIDENTIAL BUILDING

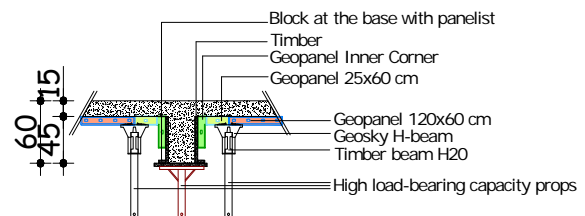
Location: Dolo, Italy

Designer: Geom. Bertiato

Structure: Full R.C. slab, 20-25 cm thickness

Total surface: 1014 m²

Product used: Geosky system



Solution for the closure of a slab with GEOPANEL outer corner and beams

Fig. 1 cross-section



Fig.2

Fully erected Geosky forming system



Fig.3

Detail of wood compensation



Fig.4

Concrete finish after stripping



Fig.5

Jobsite view after formwork stripping

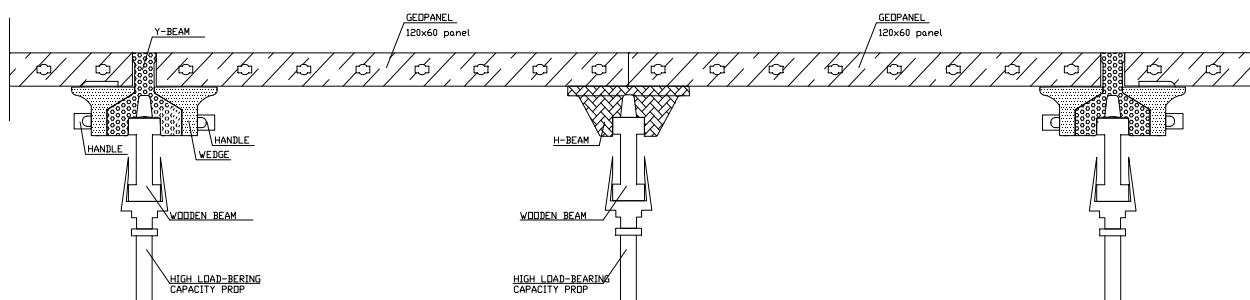
The slab surface was divided in three pours, taking advantage of the advanced dismantling properties of the Geosky forming system: it was thus possible to optimise the amount of material deployed and simplify the jobsite logistics.

GEOSKY

FULL R.C. SLABS

<p>Geosky</p> <p>Geosky is a plastic formwork system used to pour full r.c. slabs. Its sliding wedge mechanism makes it possible to strip the panels only a few days after the pour, while retaining full slab support until the concrete is fully cured. The material removed can thus be used again very quickly, assuring high job-site productivity. The system is composed by Geopanel 120x60 cm panels and a differen of plastic support beams, which are coupled with standard H20 timber beams.</p>	<p>Advantages</p> <ul style="list-style-type: none"> • Suitable for the creation of full r.c. slabs for commercial, industrial and residential buildings • Advanced dismantling assures high productivity • Reduces the amount of equipment stored on the job-site • Concrete does not stick to plastic, releasing agents and detergents are not required
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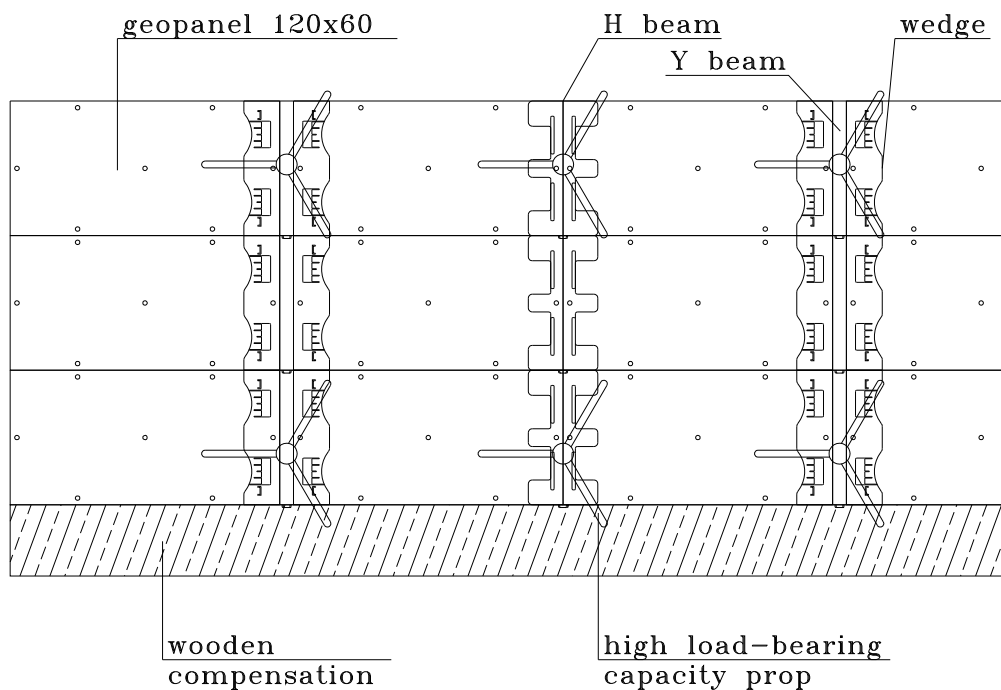
GEOSKY ITEM POSITION



GENERAL TECHNICAL CHARACTERISTICS

R.C. concrete slab thickness [cm]	15	20	20	25	30	35	40
Distance (a) between beams [cm]	120	120	120	120	60	60	60
Distance (b) between props for Y-beams [cm]	150	150	100	100	150	150	100
Distance (c) between props for H-beams [cm]	150	150	150	150	150	150	150
Max. prop overload [kN]	14	18	12	15	14	16	12

GEOSKY ITEMS



Job-site advantages

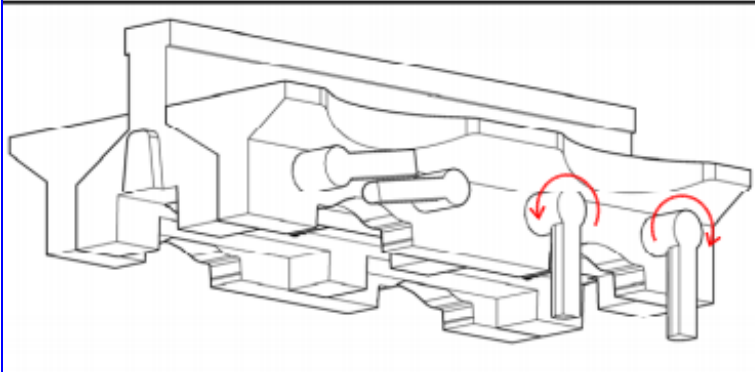
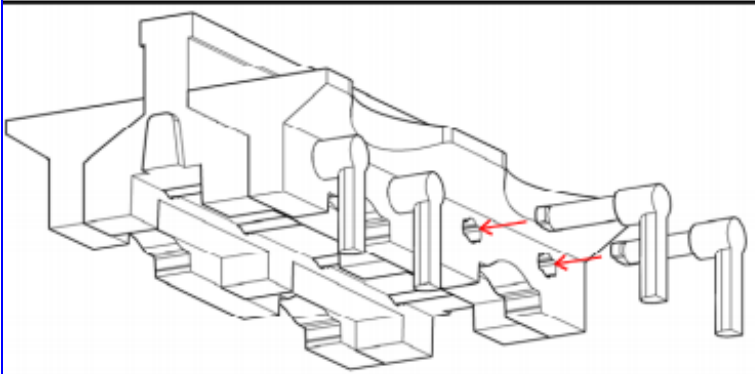
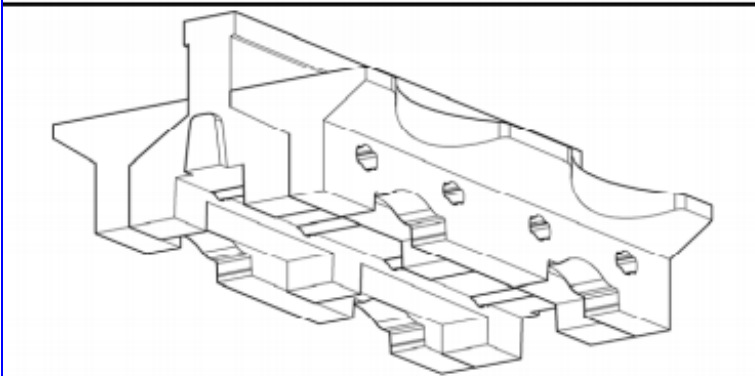
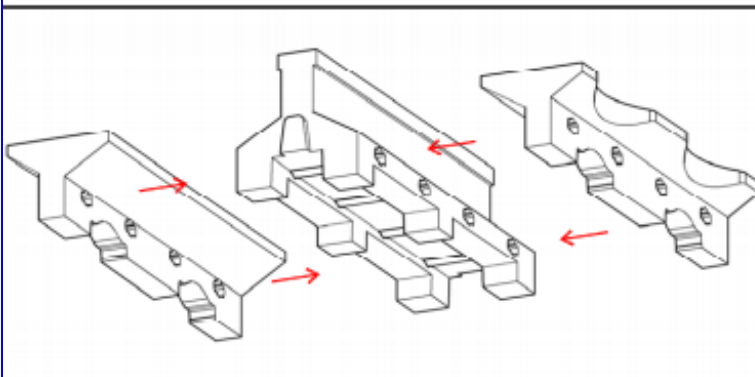
- Speed and ease of erection and dismantling of the system
- Single panel weight 11 kg, can be handled manually
- Both erection and dismantling are done from below, eliminating the risk of falling from height for workers.

GEOSKY

ASSEMBLY INSTRUCTIONS

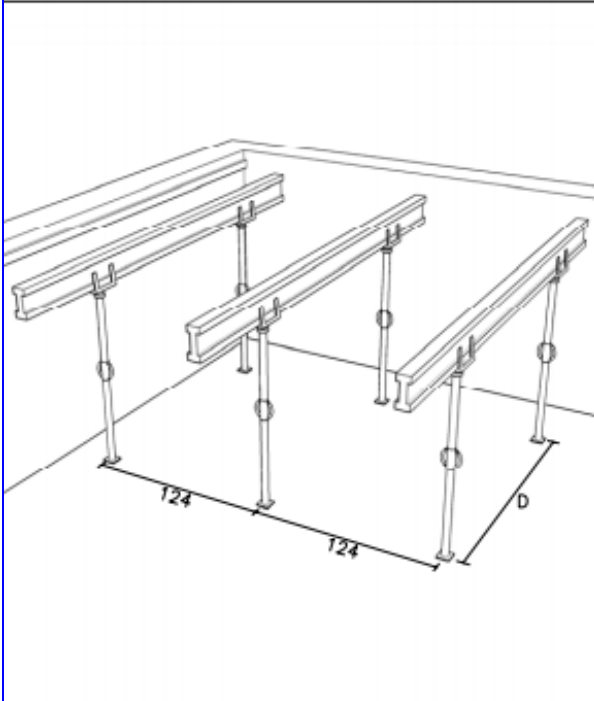
OPERAZIONE n°1:

assemblare i travetti a "Y" e i due cunei con quattro maniglie per parte come indicato nello schema.

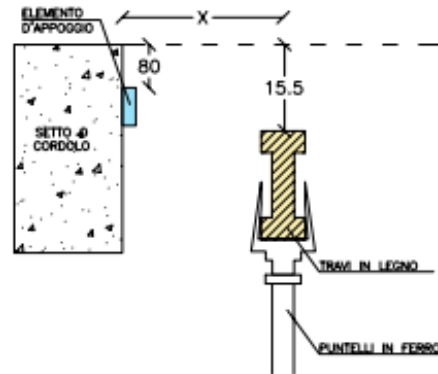


OPERAZIONE n°2:

posizionare i puntelli in ferro e inserire le travi in legno.
Fissare l'elemento d'appoggio al muro.



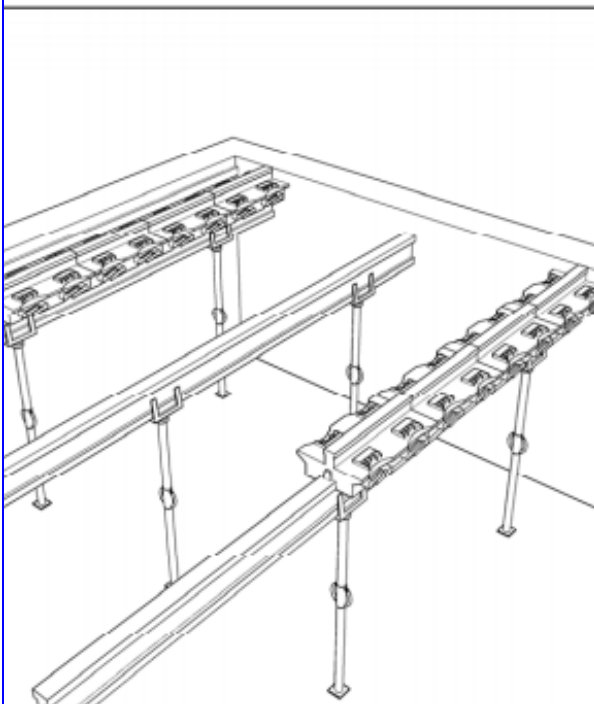
PARTICOLARE POSIZIONE TRAVI IN LEGNO ED ELEMENTO D'APPOGGIO



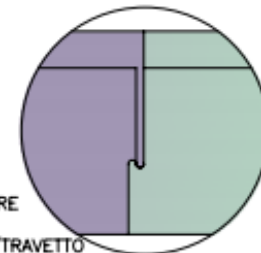
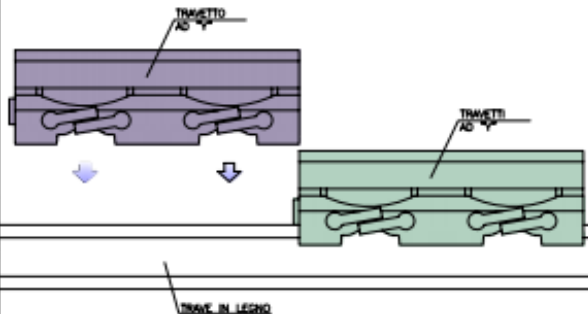
LA MISURA DELLA COMPENSAZIONE "X", E LA LUCE "D" SONO INDICATA NELLE TAVOLE DI PROGETTO GEOPLAST®

OPERAZIONE n°3:

posizionare le file di travetti ad "Y" sul primo e terzo trave in legno.

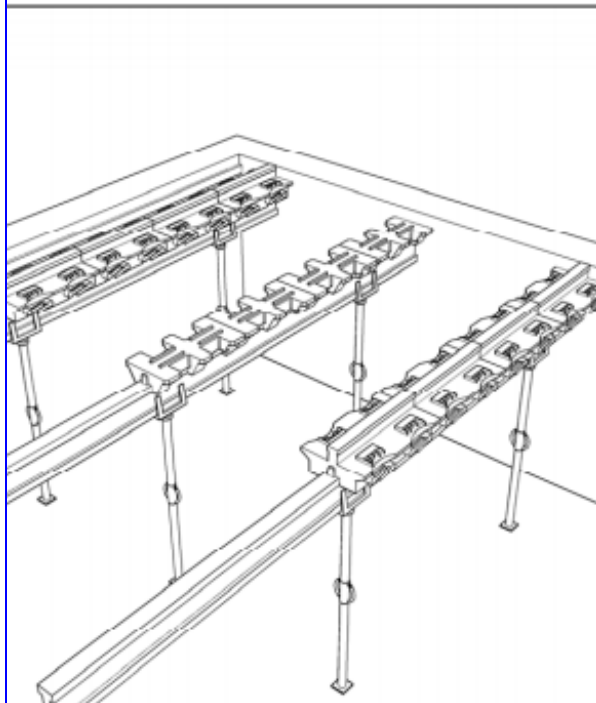


PARTICOLARE INCASTRO TRAVETTI AD "Y"

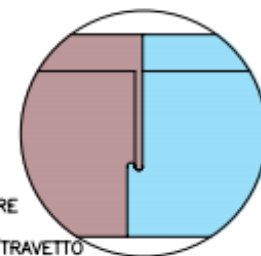
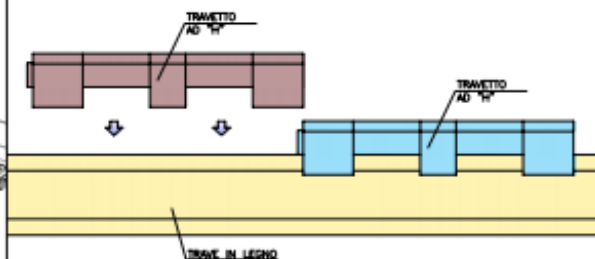


PARTICOLARE INCASTRO TRAVETTO/TRAVETTO

OPERAZIONE n°4: posizionare le file di travetti ad "H" sul secondo trave in legno.



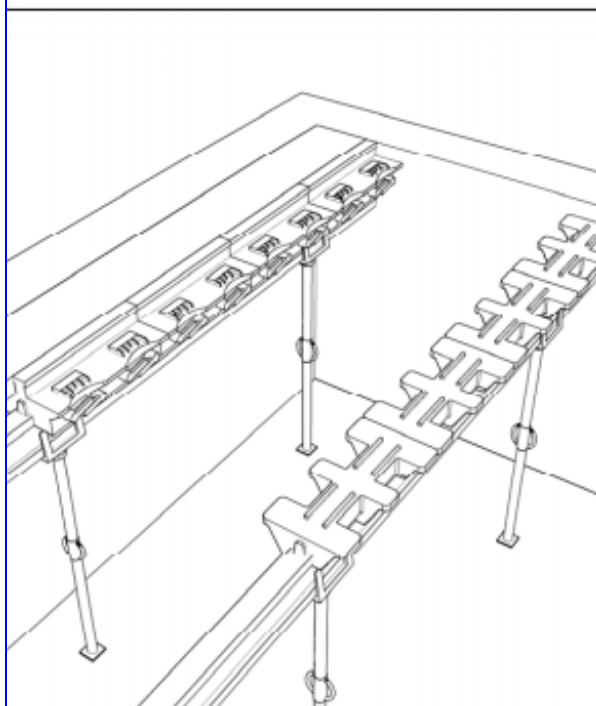
PARTICOLARE INCASTRO TRAVETTI A "H"



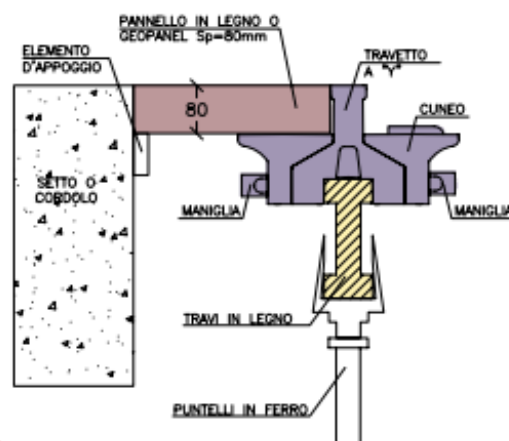
PARTICOLARE INCASTRO TRAVETTO/TRAVETTO

OPERAZIONE n°5:

posizionare il pannello di compensazione laterale in legno o GEOPANEL dello spessore di 80mm

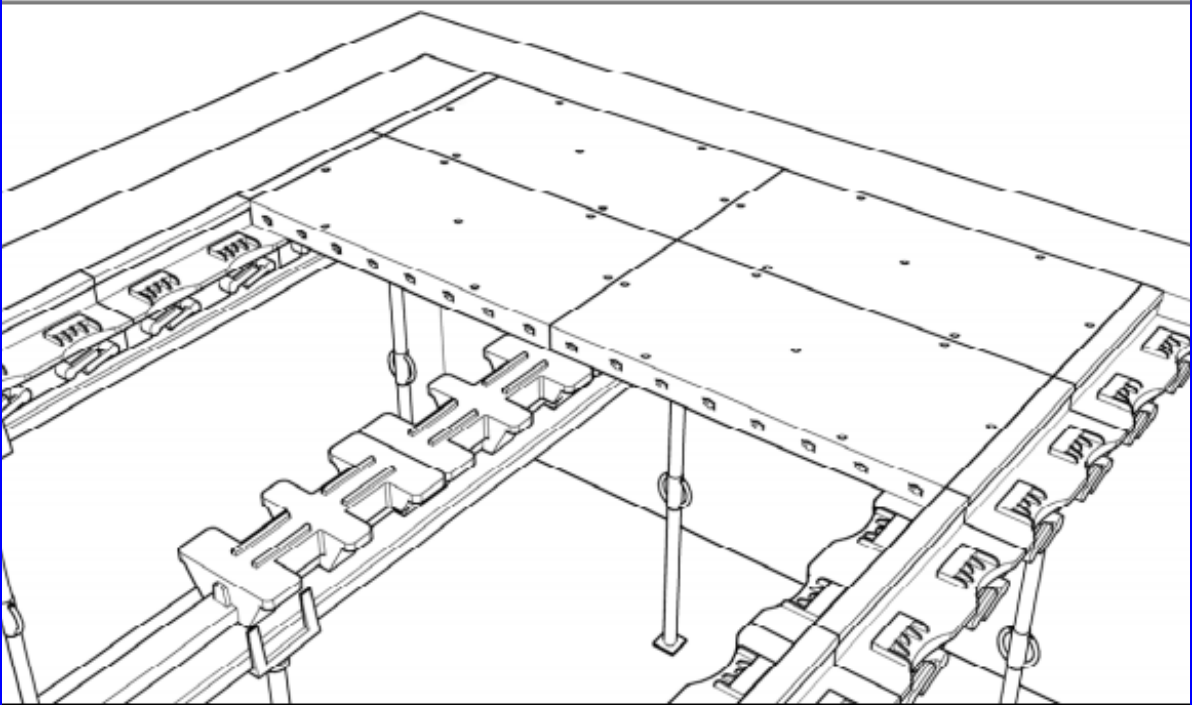


PARTICOLARE PANNELLO DI COMPENSAZIONE LATERALE

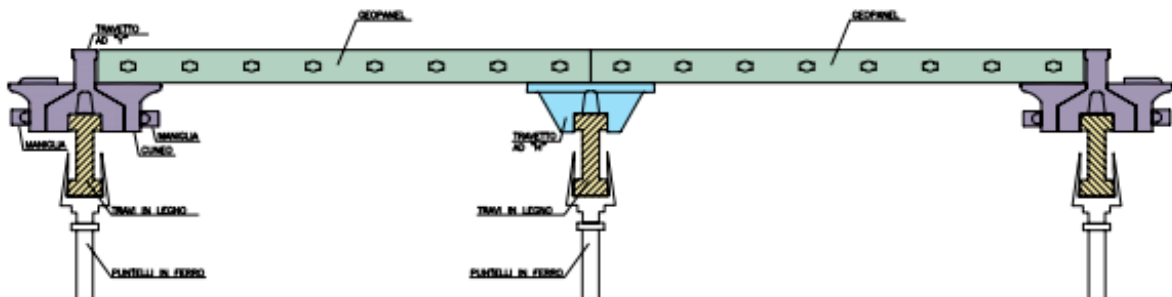


LE DIMENSIONI DEL PANNELLO DI COMPENSAZIONE SONO INDICATE NELLE TAVOLE DI PROGETTO GEOPLAST®

OPERAZIONE n°6: posare i pannelli GEOPANEL

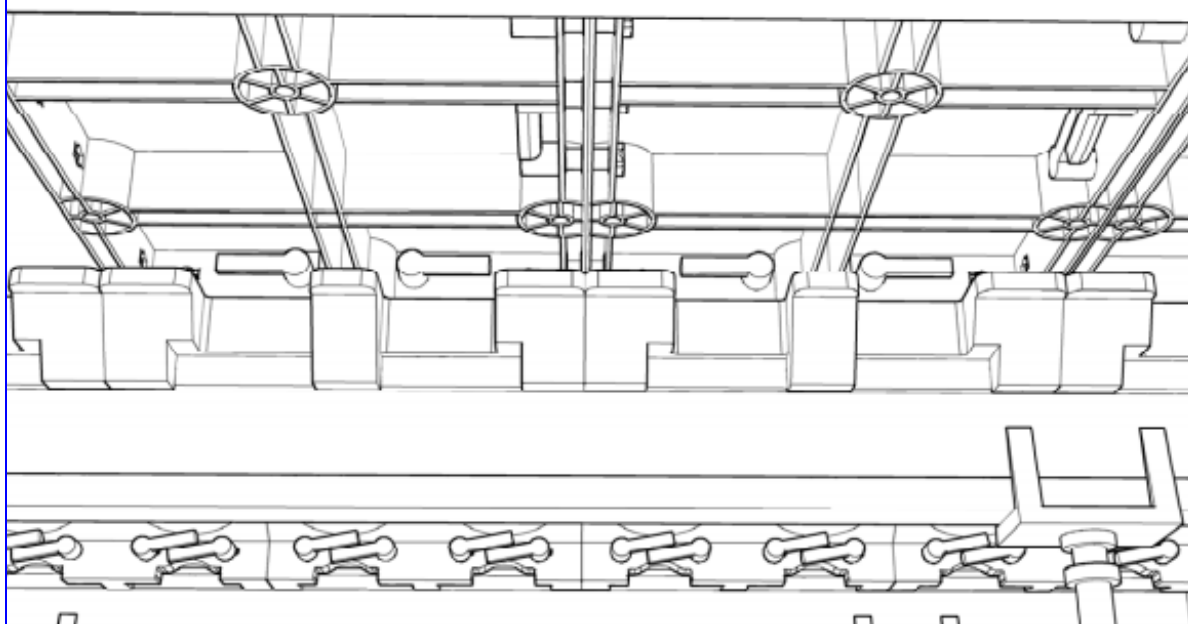


PARTICOLARE POSA PANNELLI GEOPANEL

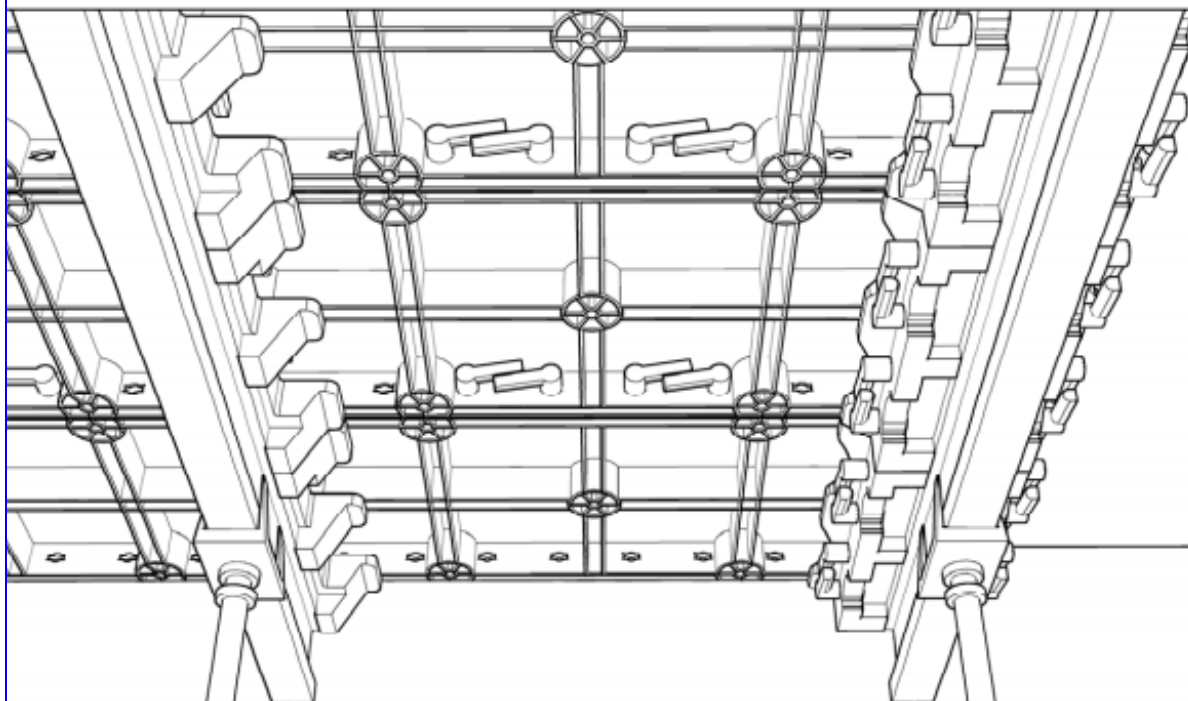


OPERAZIONE n°7:

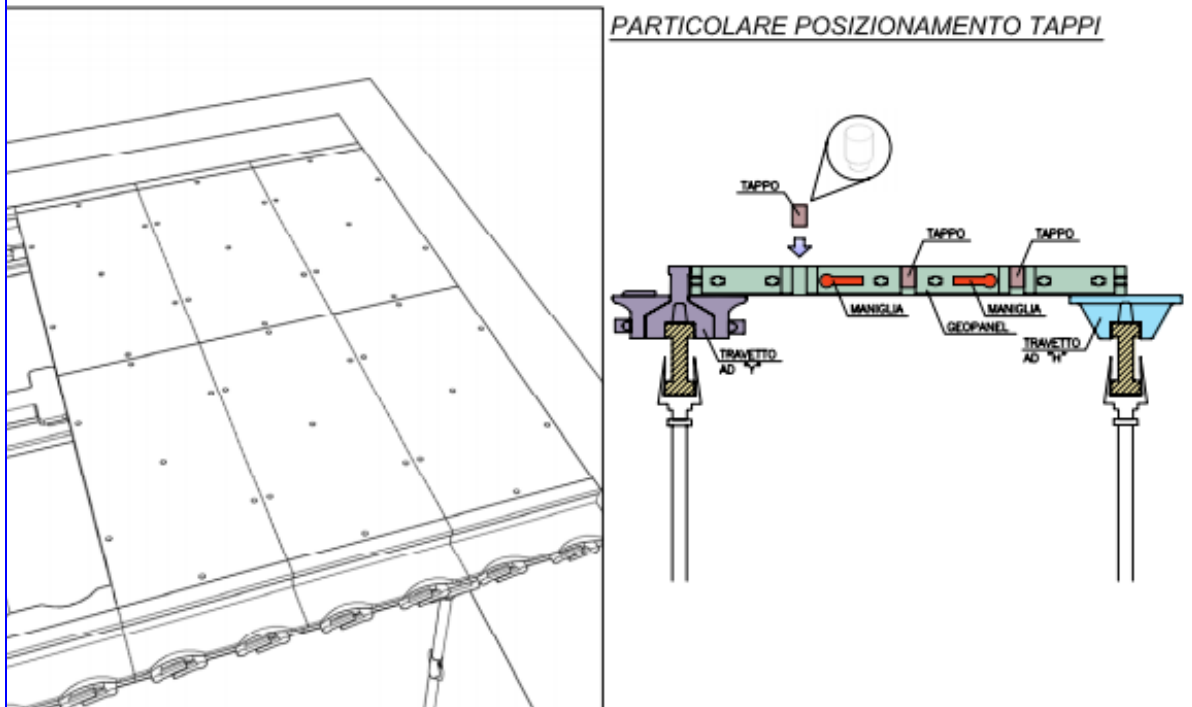
in corrispondenza delle file di travetti ad "H" fissare i pannelli GEOPANEL con due maniglie per pannello come da disegno.

**OPERAZIONE n°8:**

perpendicolarmente ai travetti ad "H" e "Y" fissare i pannelli GEOPANEL con quattro maniglie per pannello come da disegno.



OPERAZIONE n°9: *posizionare i tappi di riempimento nei fori del pannello*



ATTENZIONE!! Al fine di posizionare correttamente i pannelli di compensazione nei cordoli laterali, è fondamentale consultare le tavole di progetto GEOPLAST® prima di procedere alla posa degli elementi del solaio.

ORDINE DI POSA:

