

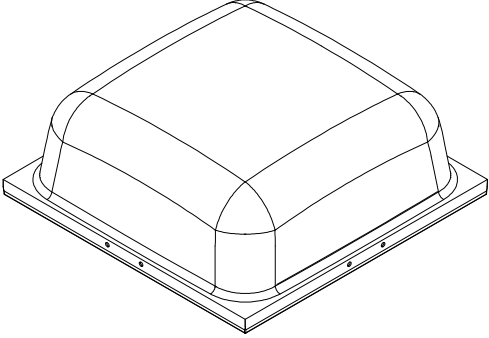
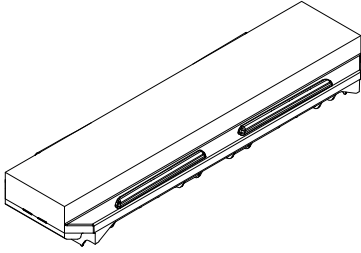
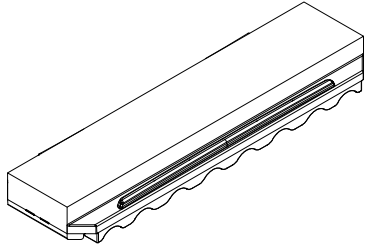

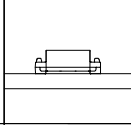
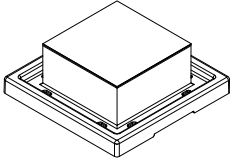
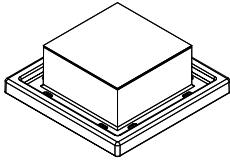
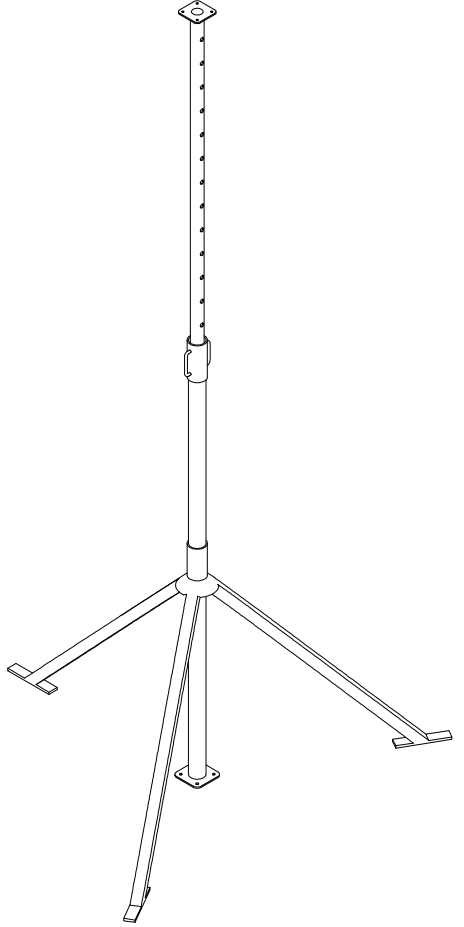

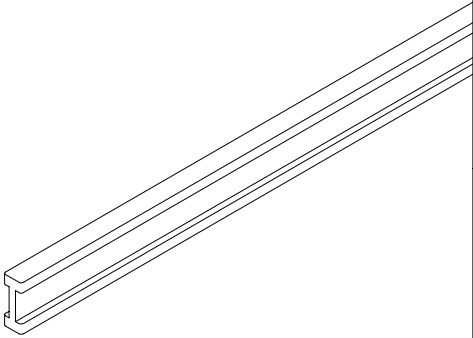
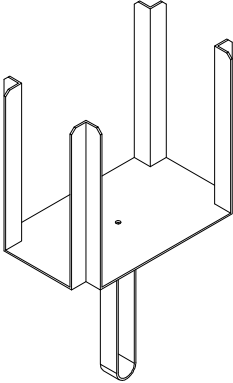
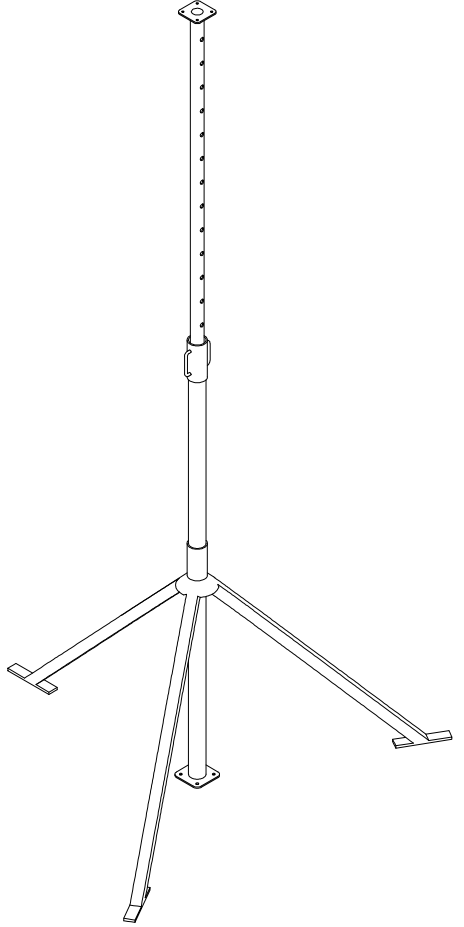
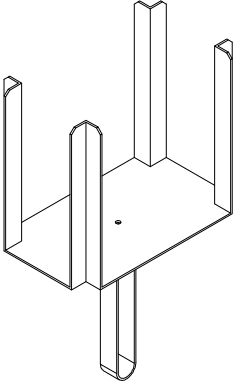


# SKYDOME

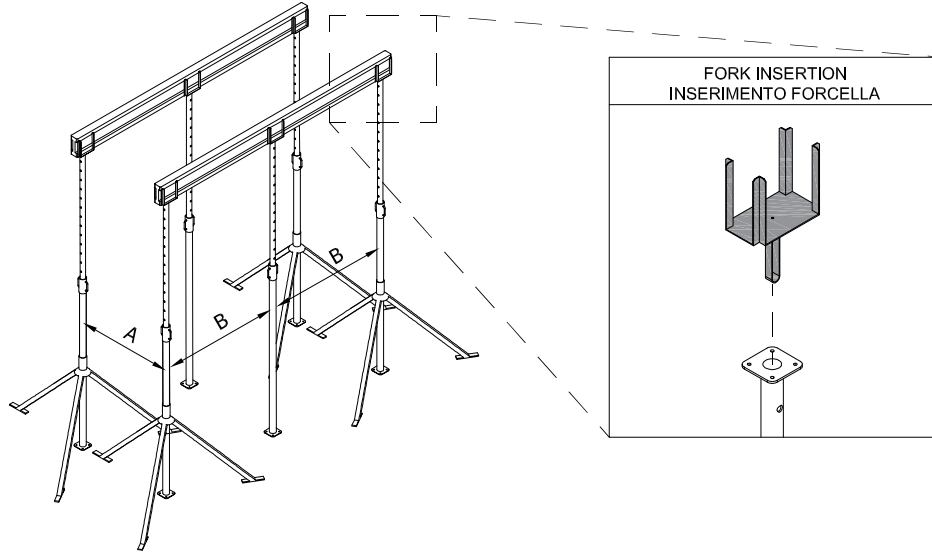


**MANUALE TECNICO**   
**TECHNICAL MANUAL** 

PAG. 2	LIST OF COMPONENTS - LISTA COMPONENTI
PAG. 3	SKYDOME ASSEMBLING - ASSEMBLAGGIO SKYDOME
PAG. 6	SKYDOME DISMANTLING - DISARMO SKYDOME
PAG. 8	POST-PROPPING REQUIREMENTS - PRESCRIZIONI POST-PUNTELLAZIONE
PAG. 10	SKYDOME FLAT ASSEMBLING - ASSEMBLAGGIO SKYDOME FLAT
PAG. 11	LONGITUDINAL BEAM ASSEMBLING - ASSEMBLAGGIO TRAVE LONGITUDINALE
PAG. 12	TRANSVERSAL BEAM ASSEMBLING - ASSEMBLAGGIO TRAVE TRASVERSALE
PAG. 13	COLUMN ASSEMBLING - ASSEMBLAGGIO COLONNA
PAG. 14	OPERATION AND MAINTENANCE REQUIREMENTS - PRESCRIZIONI DI USO E MANUTENZIONE
PAG. 14	SAFETY REQUIREMENTS - PRESCRIZIONI DI SICUREZZA

											
											
SKYDOME H 200-250-300-350-400		BEAMS T 120-160-200		TRAVETTI T 120-160-200		FLAT BEAMS TF 120-160-200		TRAVETTI TF 120-160-200			
											
											
CUBE C 120-160-200		CUBO C 120-160-200		FLAT CUBE CF 120-160-200		CUBO CF 120-160-200					
											
											
H20 WOODEN BEAM		TRAVE IN LEGNO H20		FORK		FORCELLA		PROP AND TRIPOD		PUNTELLO E TREPPIEDE	

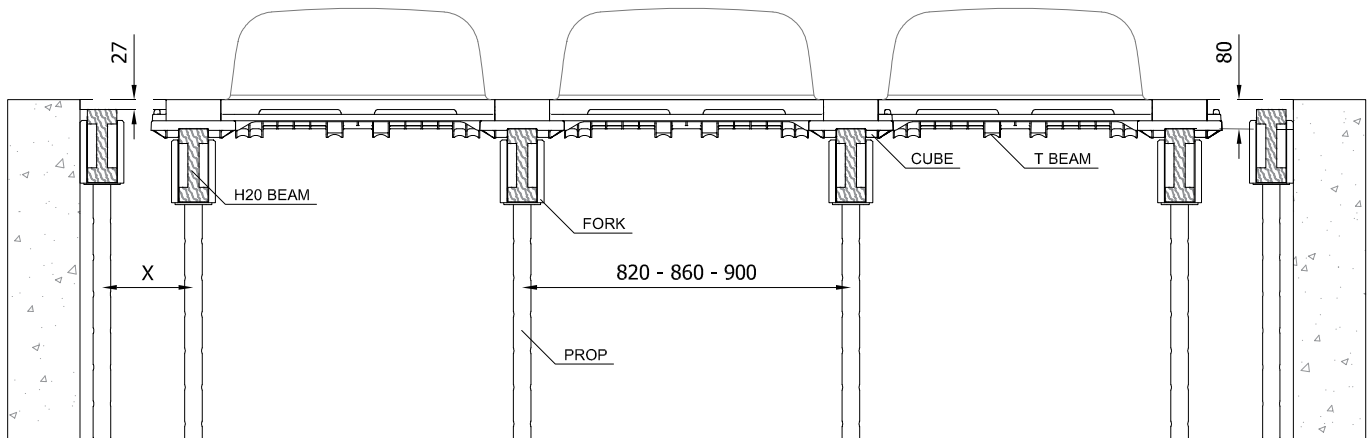
1. PROPS AND H20 BEAM INSTALLATION  
 INSTALLAZIONE PUNTELLI E TRAVE H20



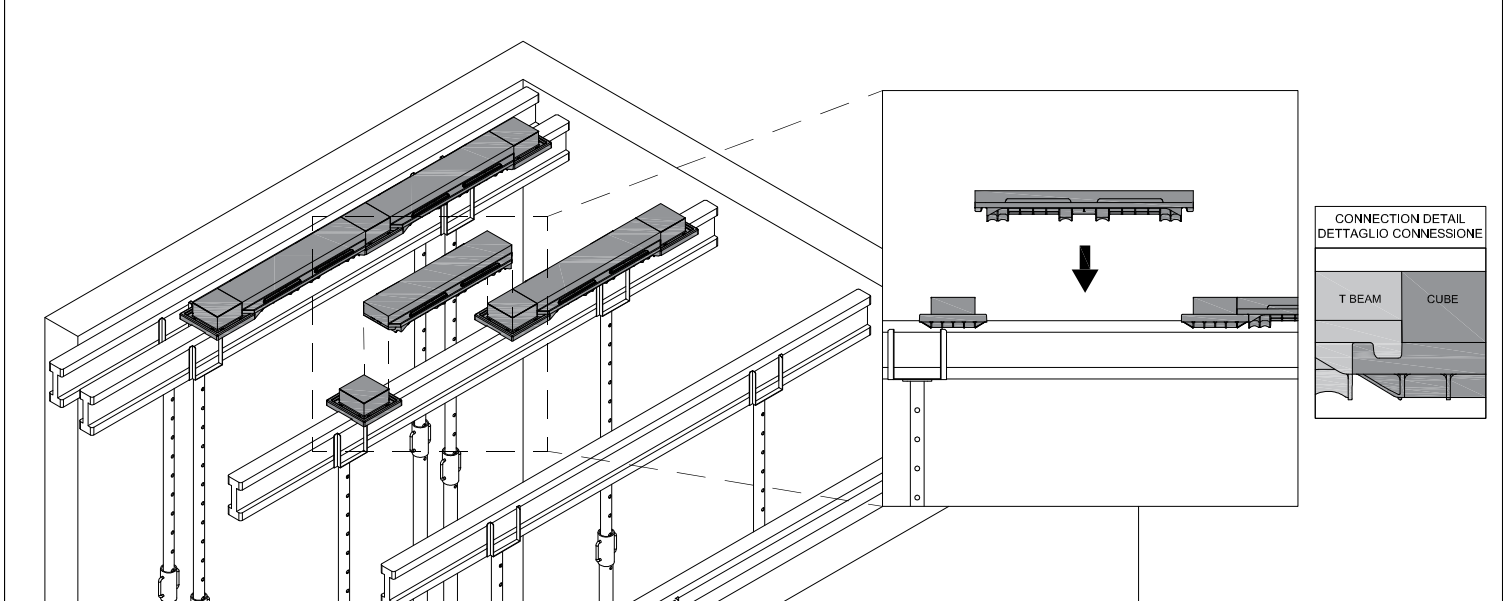
SKYDOME PROPPING					
	T BEAM [cm]	H20 BEAMS DISTANCE (A)	PROPS DISTANCE (B) [cm]		
			Slab Thickness 5 cm	Slab Thickness 10 cm	Slab Thickness 15 cm
H200	12	82	200	170	150
	16	86	190	160	140
	20	90	170	150	130
H250	12	82	190	160	140
	16	86	170	150	130
	20	90	160	140	120
H300	12	82	180	150	140
	16	86	160	140	120
	20	90	150	130	120
H350	12	82	160	140	130
	16	86	150	130	120
	20	90	140	120	110
H400	12	82	150	130	120
	16	86	130	120	110
	20	90	120	110	100

GENERAL BEAMS DISPOSITION  
 DISPOSIZIONE GENERALE DELLE TRAVI

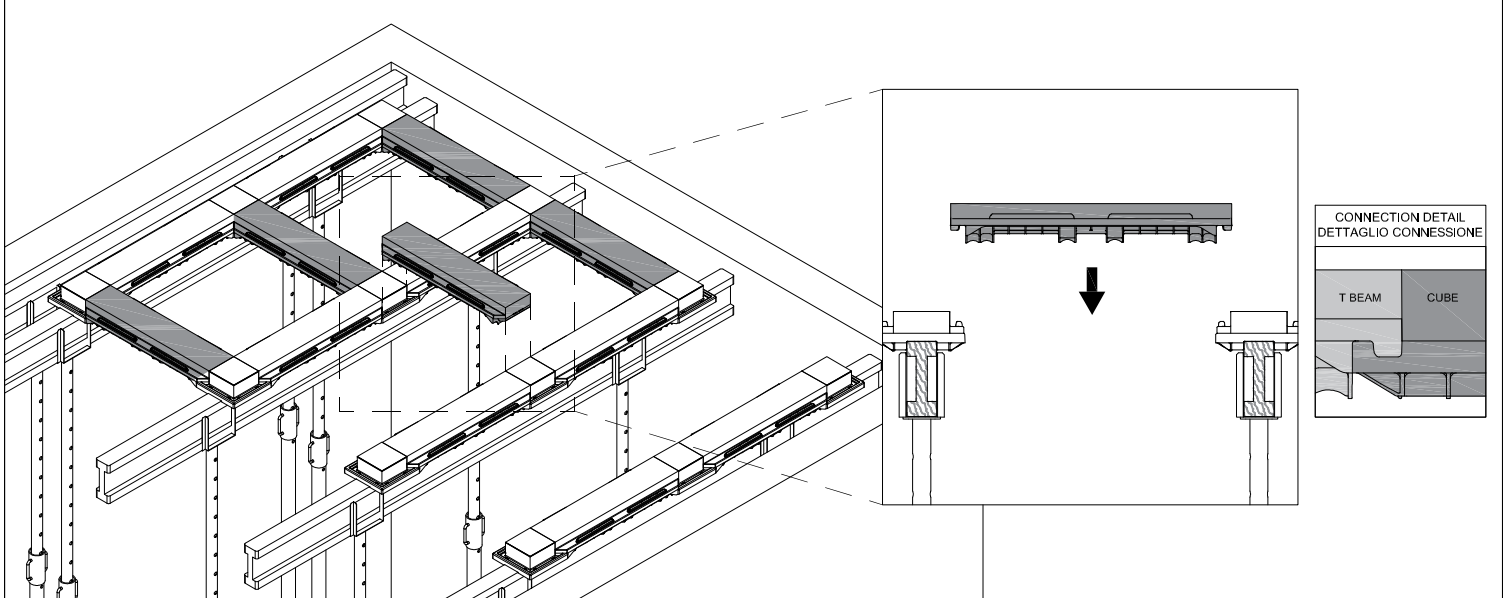
FRONT VIEW



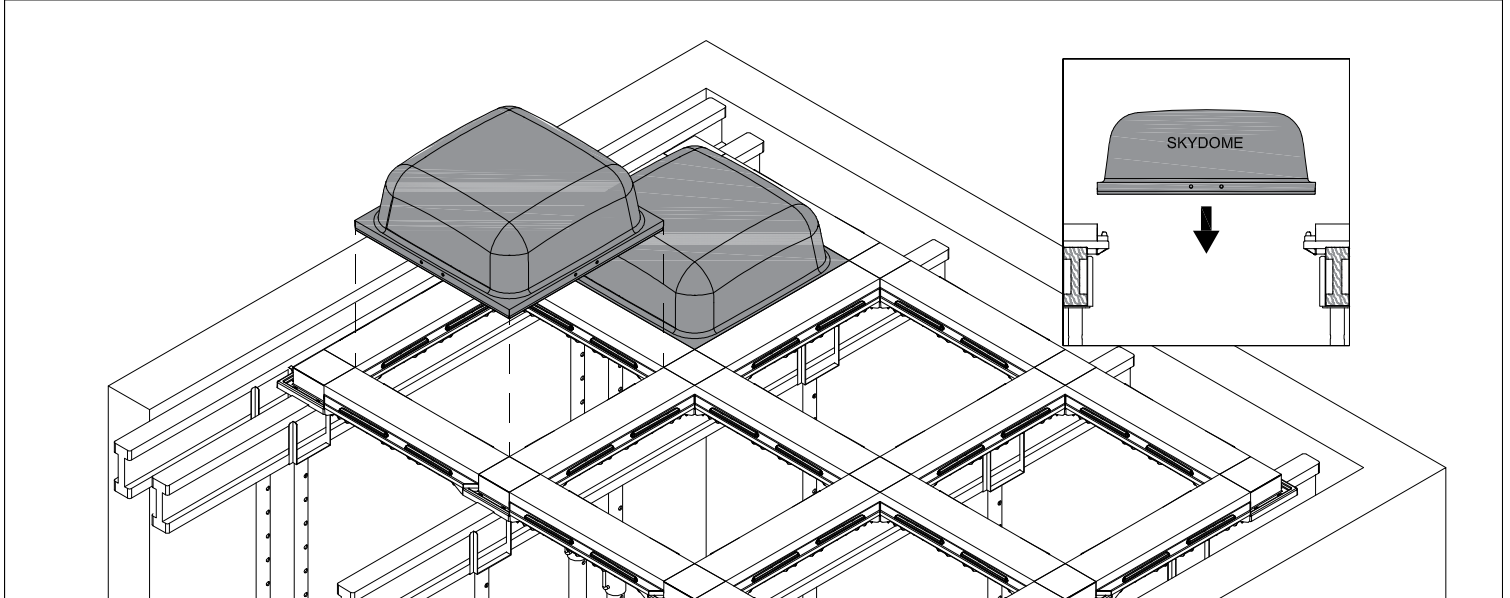
2. T BEAMS AND CUBES INSTALLATION  
 INSTALLAZIONE TRAVETTI T E CUBI



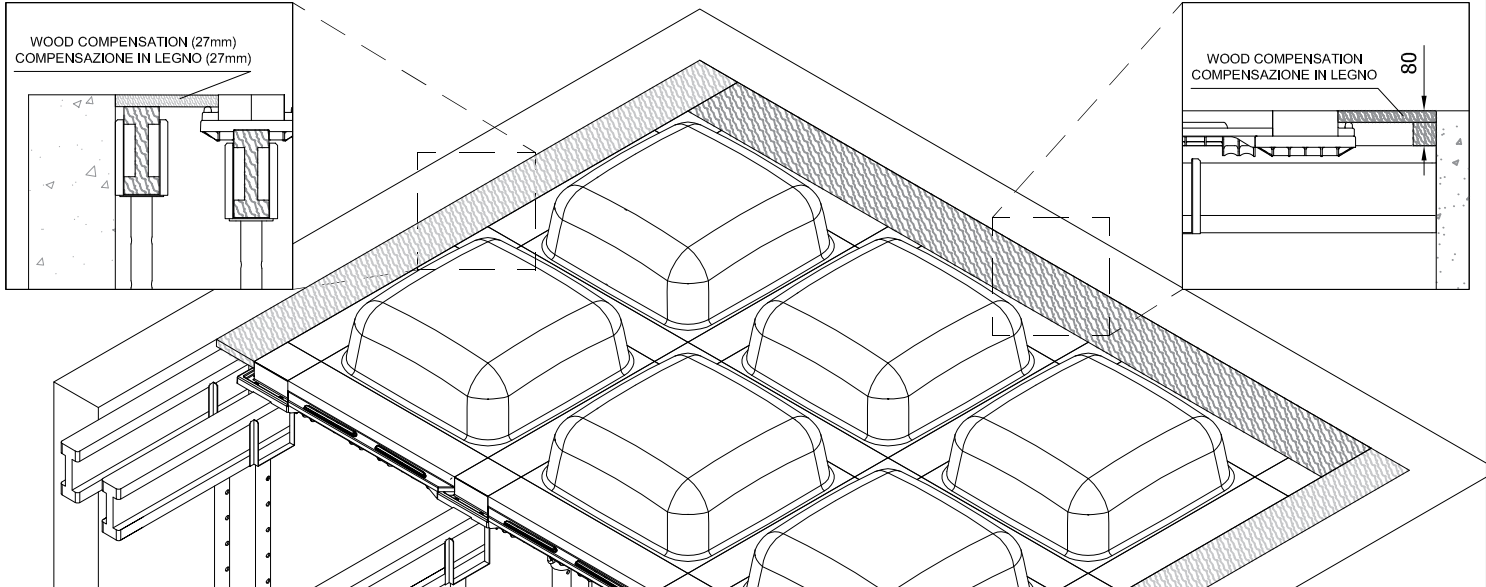
3. TRANSVERSAL T BEAM INSTALLATION  
 INSTALLAZIONE TRAVETTI T TRASVERSALI



4. SKYDOME INSTALLATION  
 INSTALLAZIONE SKYDOME

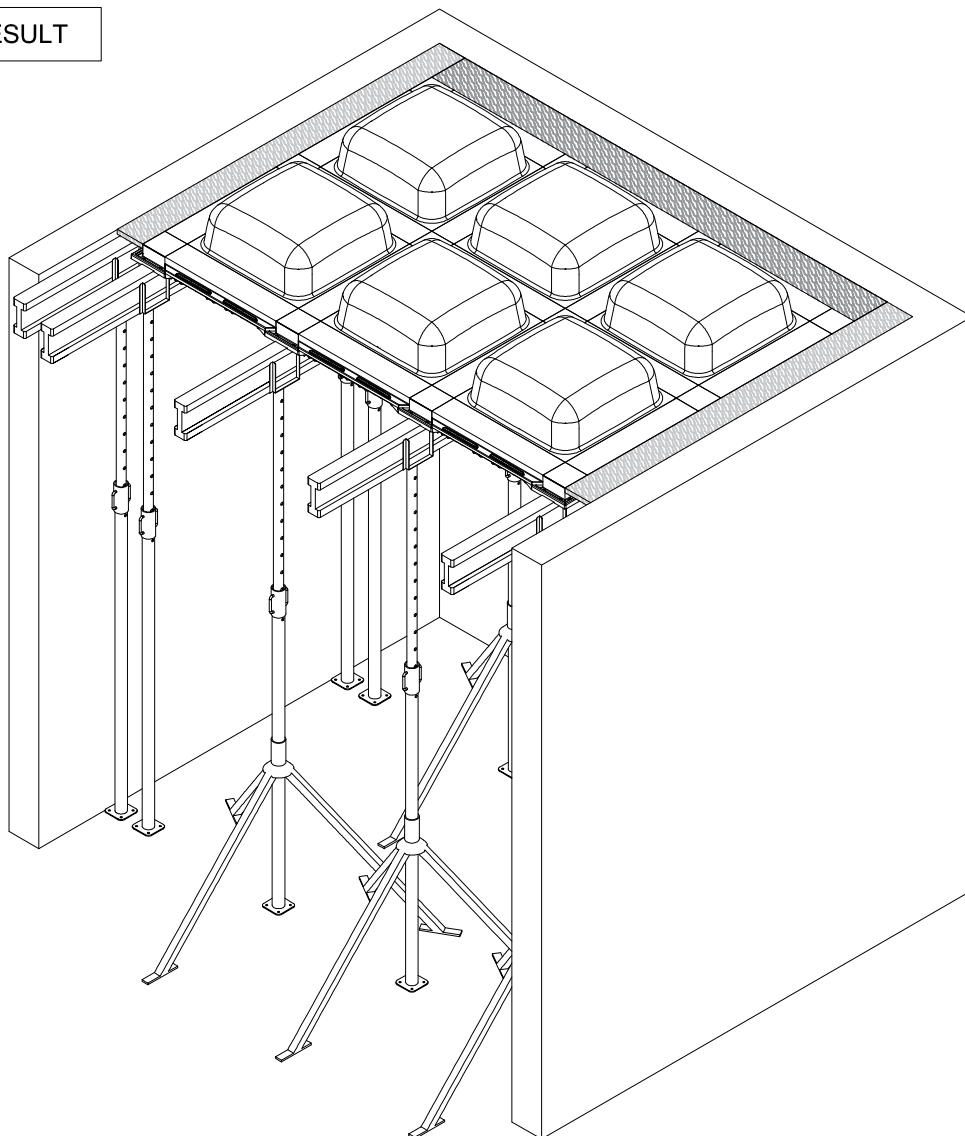


5. WOODEN COMPENSATIONS INSTALLATION  
 INSTALLAZIONE COMPENSAZIONI IN LEGNO



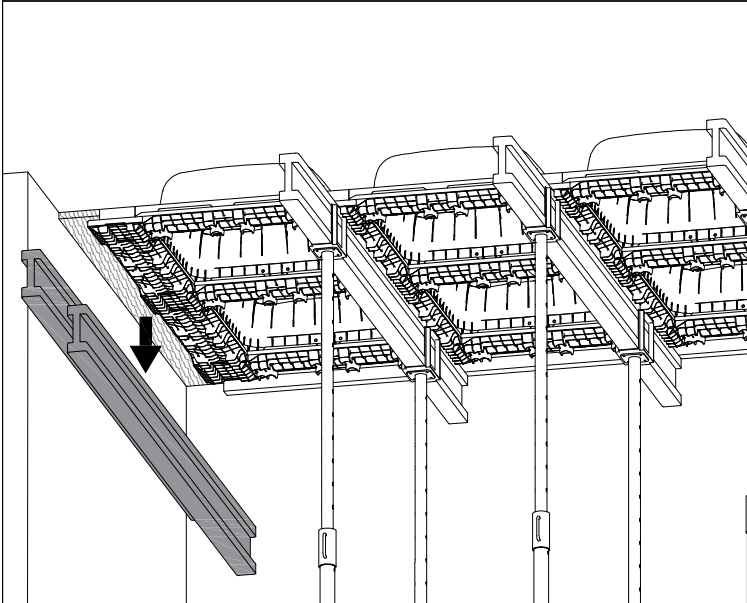
6. TRANSVERSAL WOODEN COMPENSATION INSTALLATION  
 INSTALLAZIONE COMPENSAZIONE DI LEGNO TRASVERSALE

FINAL RESULT

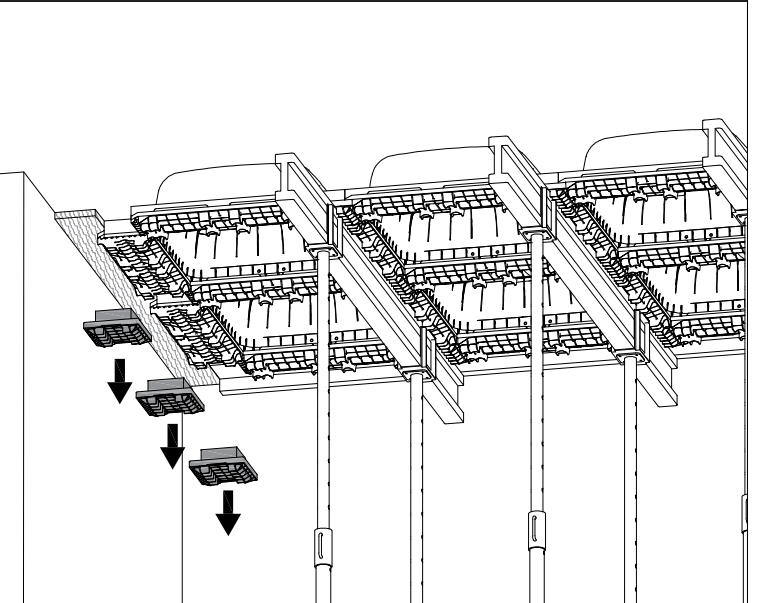




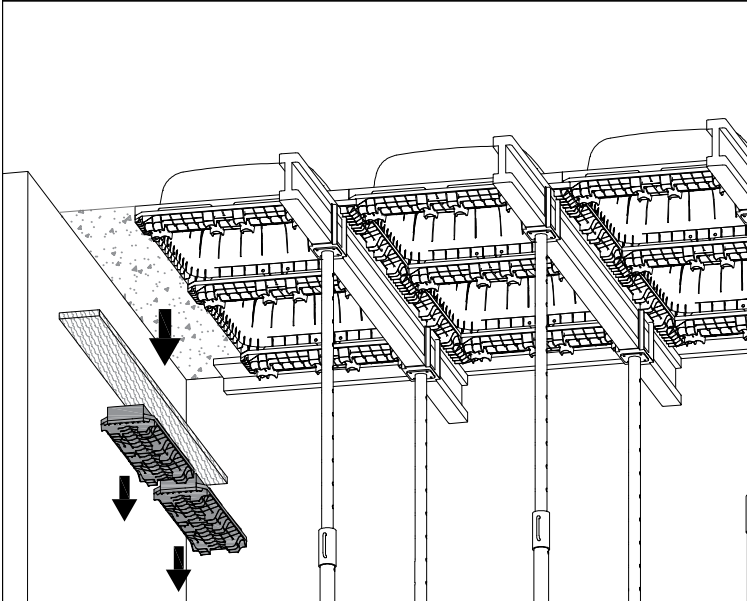
1. EXTERNAL H20 BEAMS REMOVING  
RIMOZIONE TRAVI H20 ESTERNE



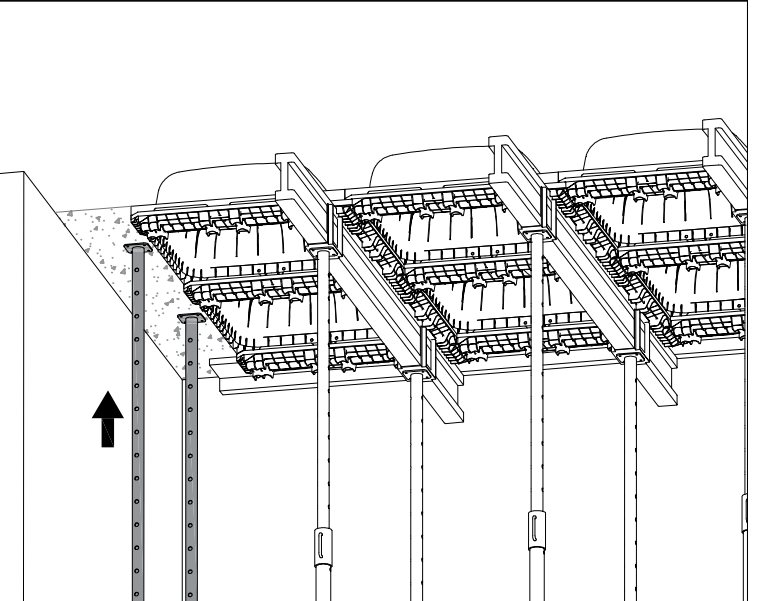
2. FIRST SKYDOME CUBES ROW REMOVING  
RIMOZIONE PRIMA FILA CUBI SKYDOME



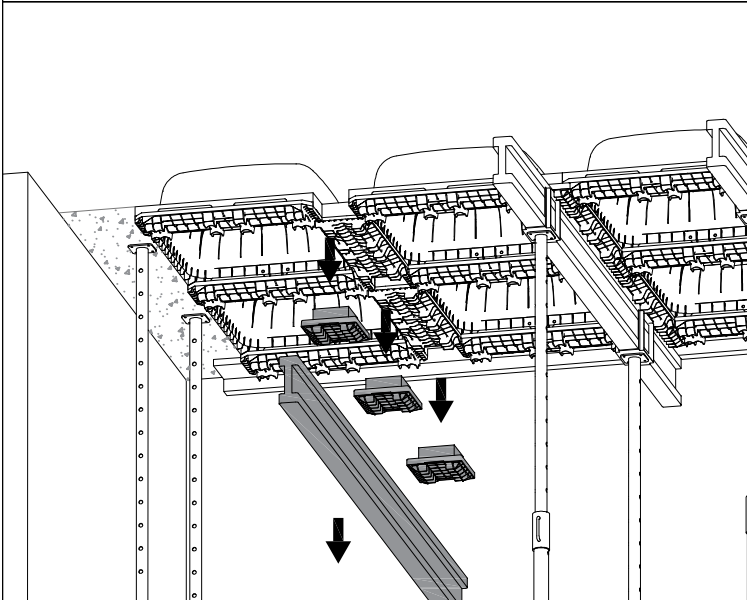
3. WOOD COMPENSATION AND FIRST T BEAMS ROW REMOVING  
RIMOZIONE COMPENSAZIONE LEGNO E TRAVETTI T



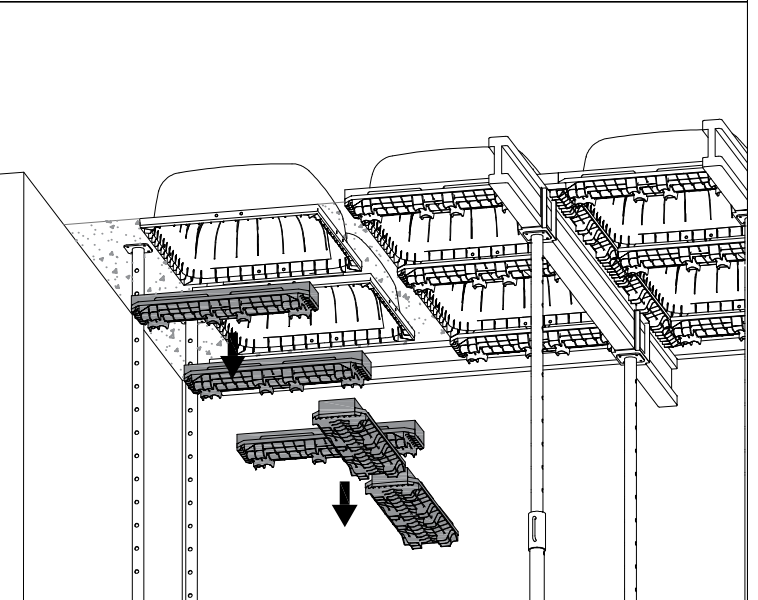
4. PROPS INSTALLATION  
INSTALLAZIONE PUNTELLI



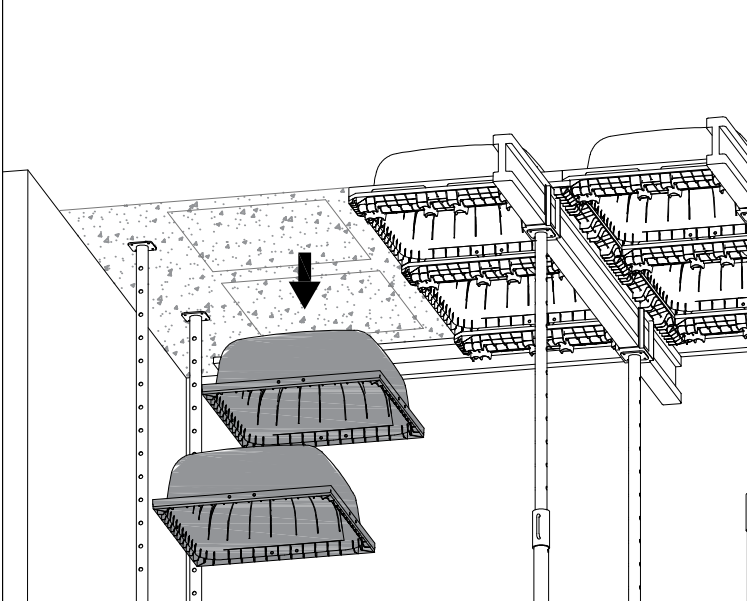
5. SECOND H20 BEAM AND CUBES ROW REMOVING  
RIMOZIONE SECONDA TRAVE H20 E FILA CUBI SKYDOME



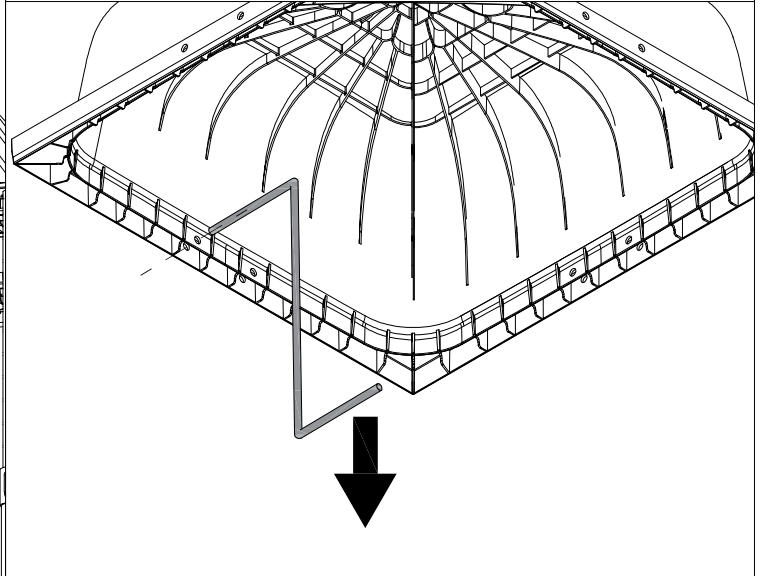
6. T BEAMS REMOVING  
RIMOZIONE TRAVETTI T



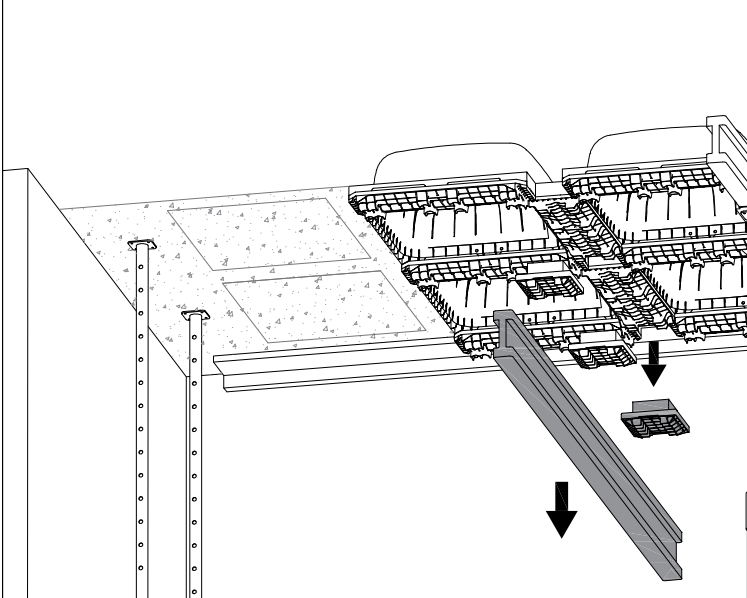
7. SKYDOME REMOVING  
RIMOZIONE SKYDOME



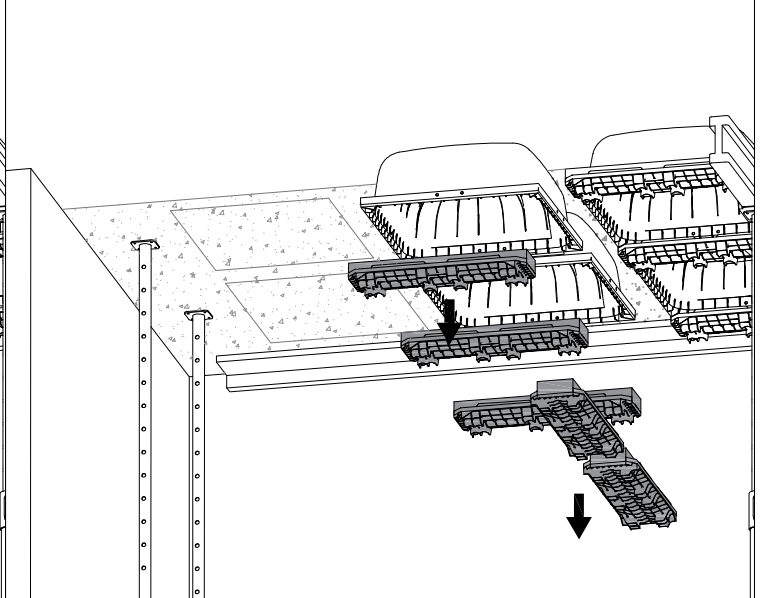
IT IS USEFUL TO USE A BENT STEEL BAR FOR SKYDOME REMOVAL  
E' UTILE USARE UN FERRO PIEGATO DI ACCIAIO PER LA RIMOZIONE  
DEGLI SKYDOME



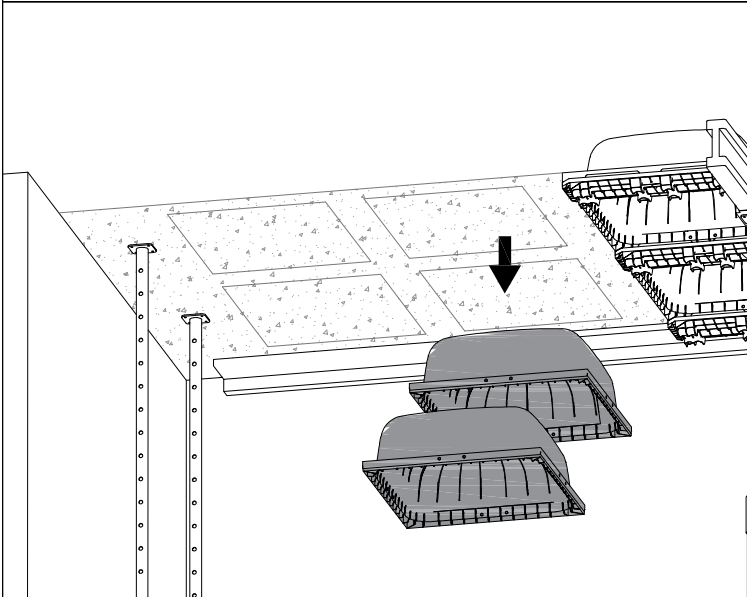
8. THIRD H20 BEAM AND CUBES ROW REMOVING  
RIMOZIONE TERZA TRAVE H20 E FILA CUBI SKYDOME



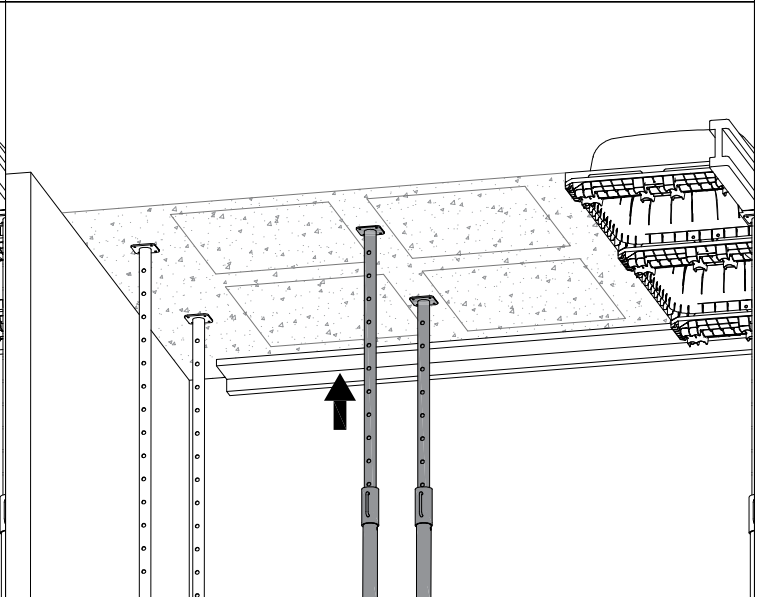
9. T BEAMS REMOVING  
RIMOZIONE TRAVETTI T



10. SKYDOME REMOVING  
RIMOZIONE SKYDOME

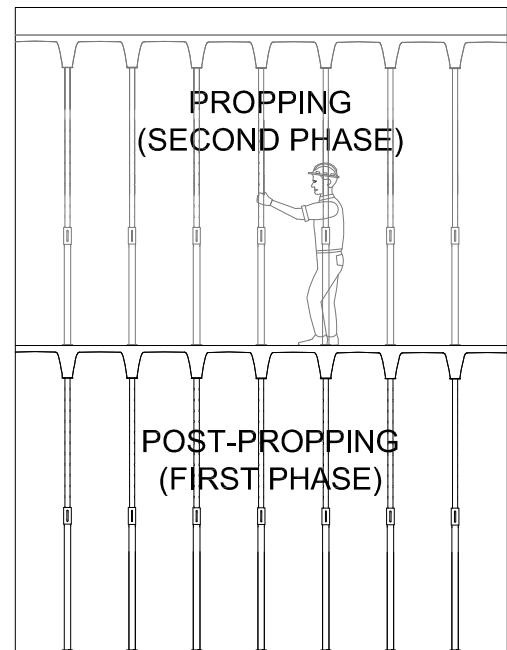
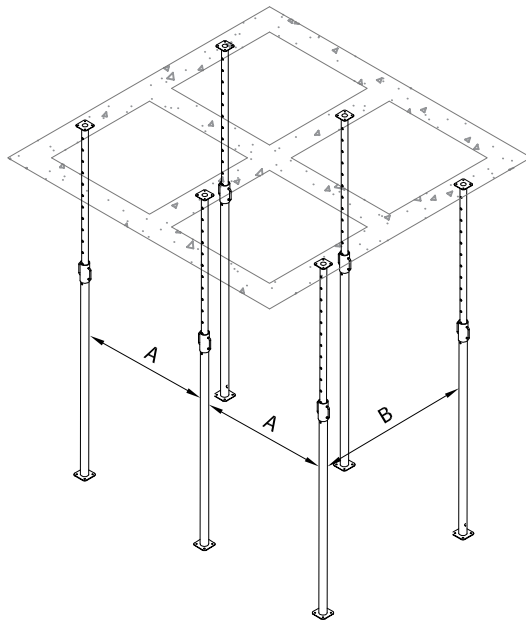


11. PROPS INSTALLATION  
INSTALLAZIONE PUNTELLI





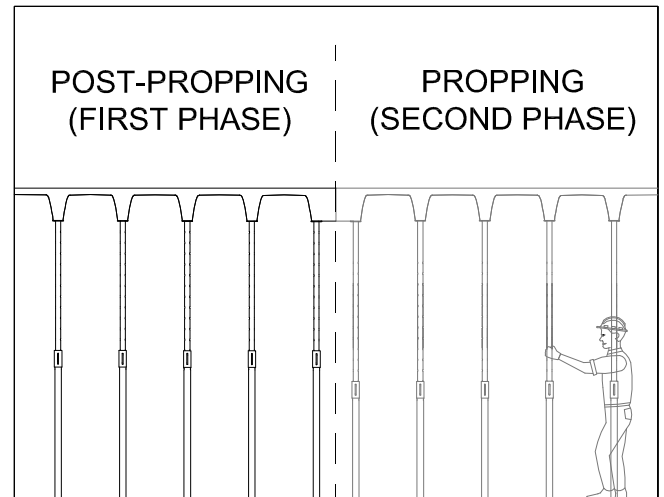
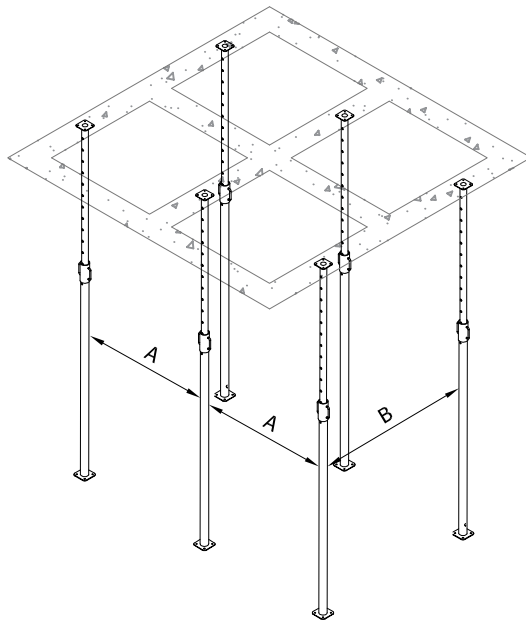
THIS PROPPING DISPOSITION PERMITS THE EARLY DISMANTLING (7 DAYS) AND THE POSSIBILITY OF THE FORMWORKS INSTALLATION IN THE HORIZONTAL DIRECTION.  
 QUESTA DISPOSIZIONE DEI PUNTELLI PERMETTE UN DISARMO ANTICIPATO (7 GIORNI) E LA POSSIBILITA' DI INSTALLAZIONE DELLE CASSEFORME IN DIREZIONE ORIZZONTALE.



SKYDOME POST-PROPPING					
	T BEAM [cm]	TRANSVERSAL DISTANCE (A)	LONGITUDINAL DISTANCE (B) [cm]		
			Slab Thickness 5 cm	Slab Thickness 10 cm	Slab Thickness 15 cm
H200	12	82	160	140	120
	16	86	150	130	110
	20	90	140	120	100
H250	12	82	150	130	110
	16	86	140	120	100
	20	90	130	110	90
H300	12	82	140	120	100
	16	86	130	110	90
	20	90	110	100	90
H350	12	82	130	110	100
	16	86	110	100	90
	20	90	100	90	80
H400	12	82	110	100	90
	16	86	100	90	80
	20	90	90	80	70

DISMANTLING TIME	
TEMPERATURE	SKYDOME
20 + 30 °C	7 DAYS
> 30 °C	6 DAYS

THIS PROPPING DISPOSITION PERMITS THE EARLY DISMANTLING (7 DAYS) AND THE POSSIBILITY OF THE FORMWORKS INSTALLATION IN THE UPPER LEVEL.  
 QUESTA DISPOSIZIONE DEI PUNTELLI PERMETTE UN DISARMO ANTICIPATO (7 GIORNI) E LA POSSIBILITA' DI INSTALLAZIONE DELLE CASSEFORME AL LIVELLO SUPERIORE.



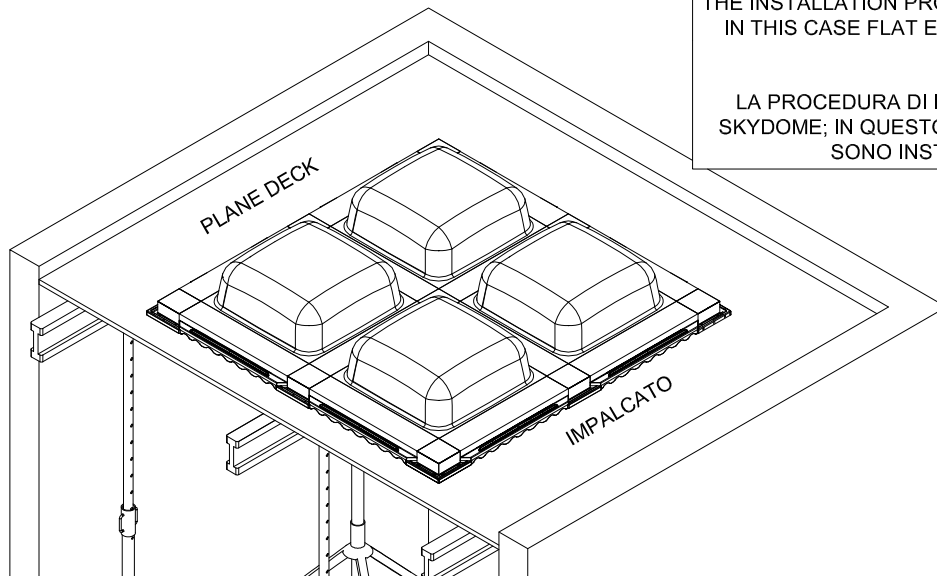
SKYDOME POST-PROPPING					
	T BEAM [cm]	TRANSVERSAL DISTANCE (A)	LONGITUDINAL DISTANCE (B) [cm]		
			Slab Thickness 5 cm	Slab Thickness 10 cm	Slab Thickness 15 cm
H200	12	82	260	230	210
	16	86	240	220	200
	20	90	230	210	190
H250	12	82	250	230	210
	16	86	230	210	190
	20	90	220	200	180
H300	12	82	240	220	200
	16	86	220	200	180
	20	90	200	190	170
H350	12	82	220	210	190
	16	86	210	190	170
	20	90	190	180	160
H400	12	82	210	190	180
	16	86	190	180	170
	20	90	180	170	150

DISMANTLING TIME	
TEMPERATURE	SKYDOME
20 + 30 °C	7 DAYS
> 30 °C	6 DAYS

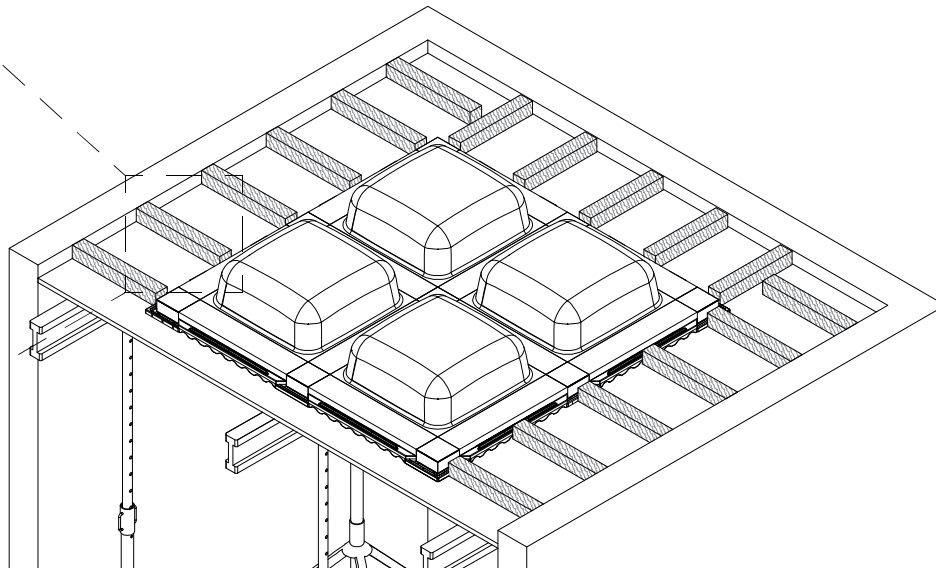
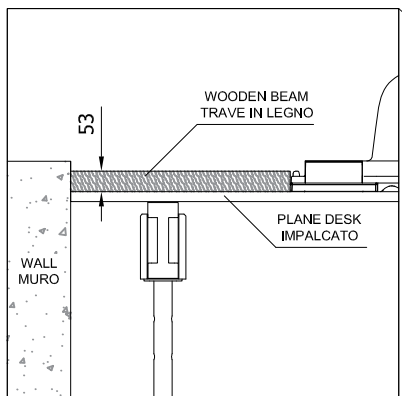
1. SKYDOME FLAT ELEMENTS INSTALLATION  
 INSTALLAZIONE ELEMENTI SKYDOME FLAT

THE INSTALLATION PROCEDURE IT IS THE SAME OF SKYDOME;  
 IN THIS CASE FLAT ELEMENTS ARE INSTALLED ON A DECK  
 PLANE.

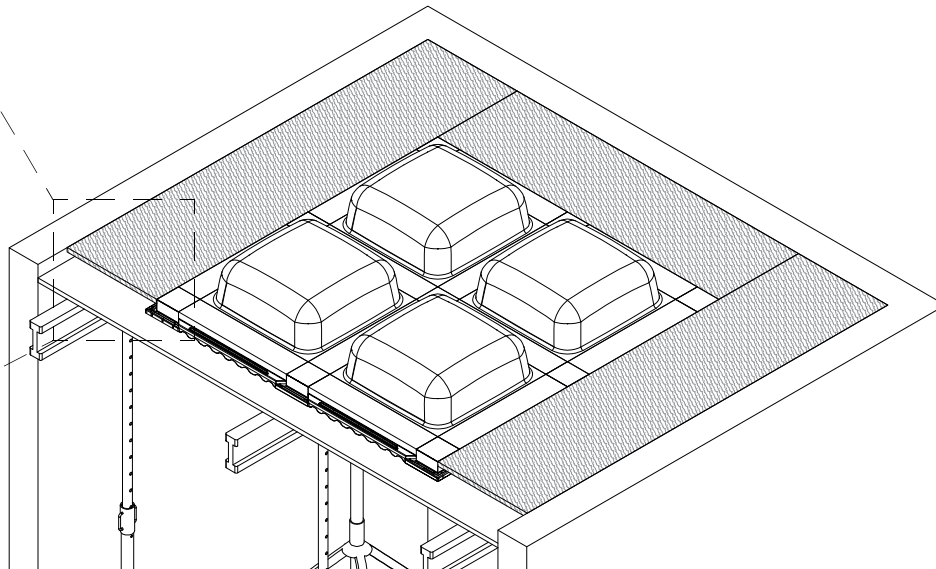
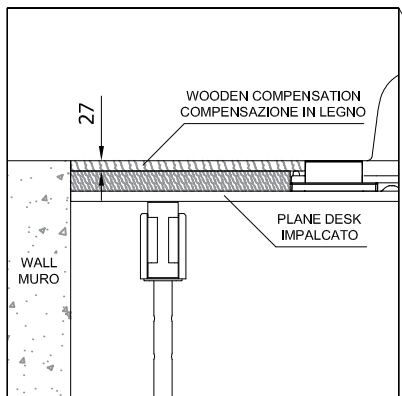
LA PROCEDURA DI INSTALLAZIONE E' LA STESSA DELLO  
 SKYDOME; IN QUESTO CASO GLI ELEMENTI SKYDOME FLAT  
 SONO INSTALLATI SU UN IMPALCATO.



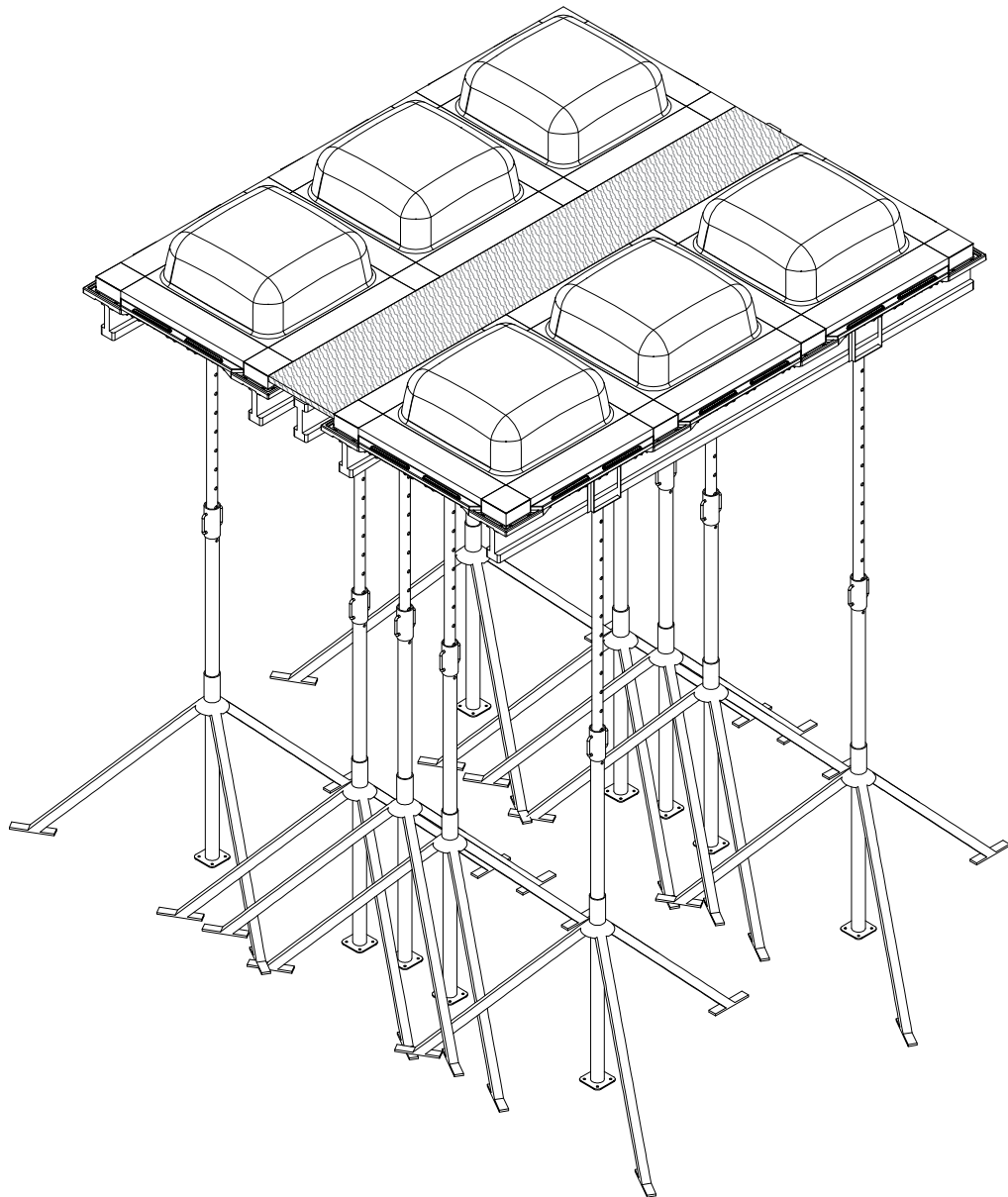
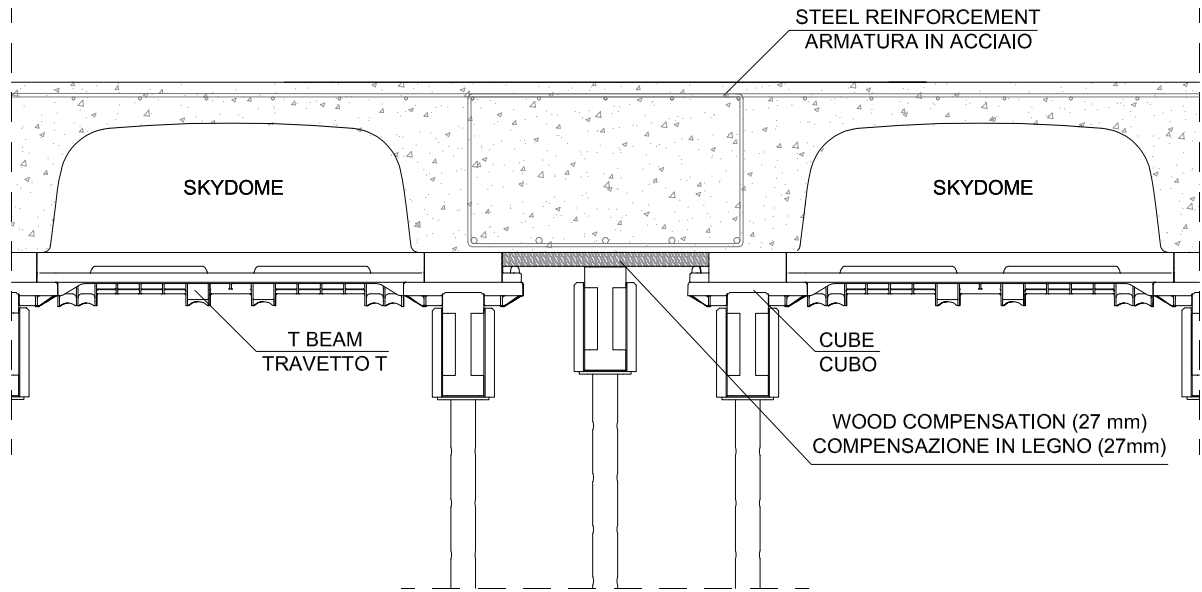
2. WOODEN BEAMS 80X80mm INSTALLATION  
 INSTALLAZIONE TRAVI IN LEGNO 80X80mm



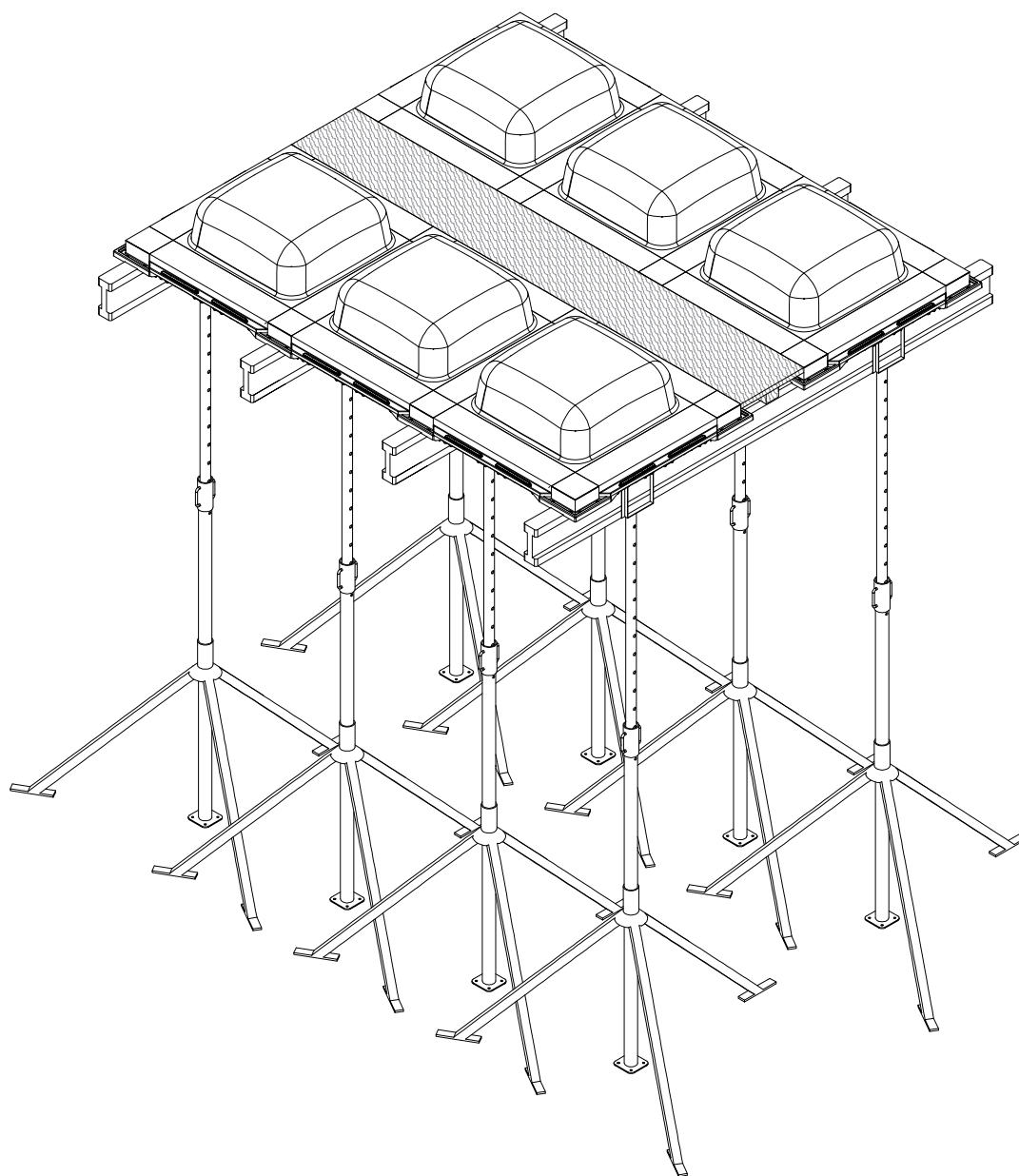
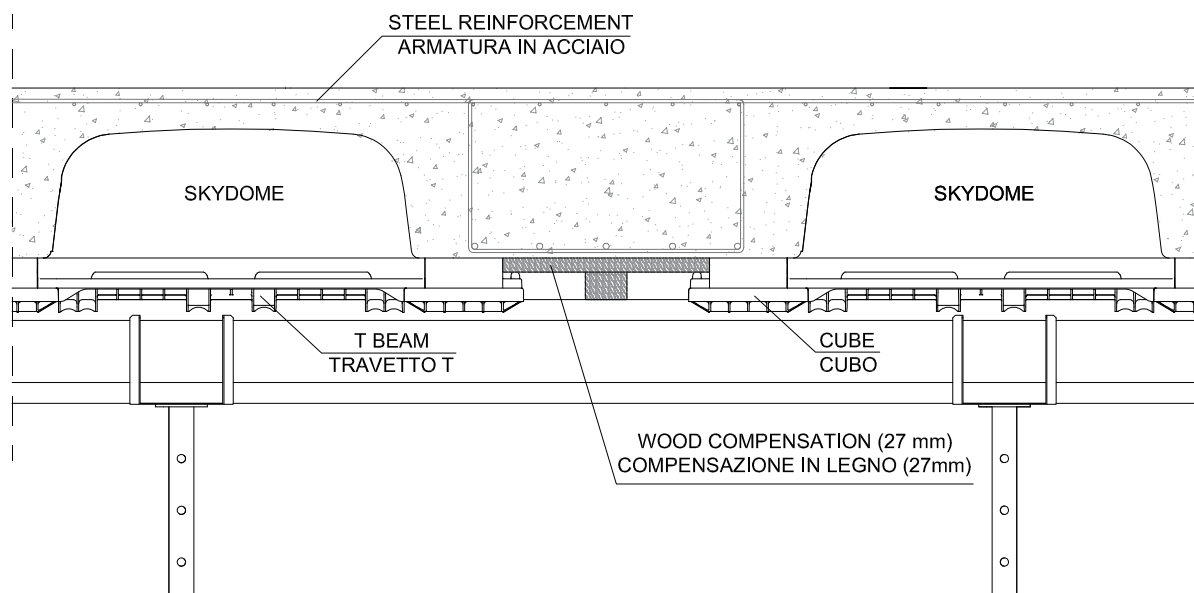
3. LATERAL WOODEN COMPENSATIONS INSTALLATION  
 INSTALLAZIONE COMPENSAZIONI LATERALI IN LEGNO



FRONT VIEW

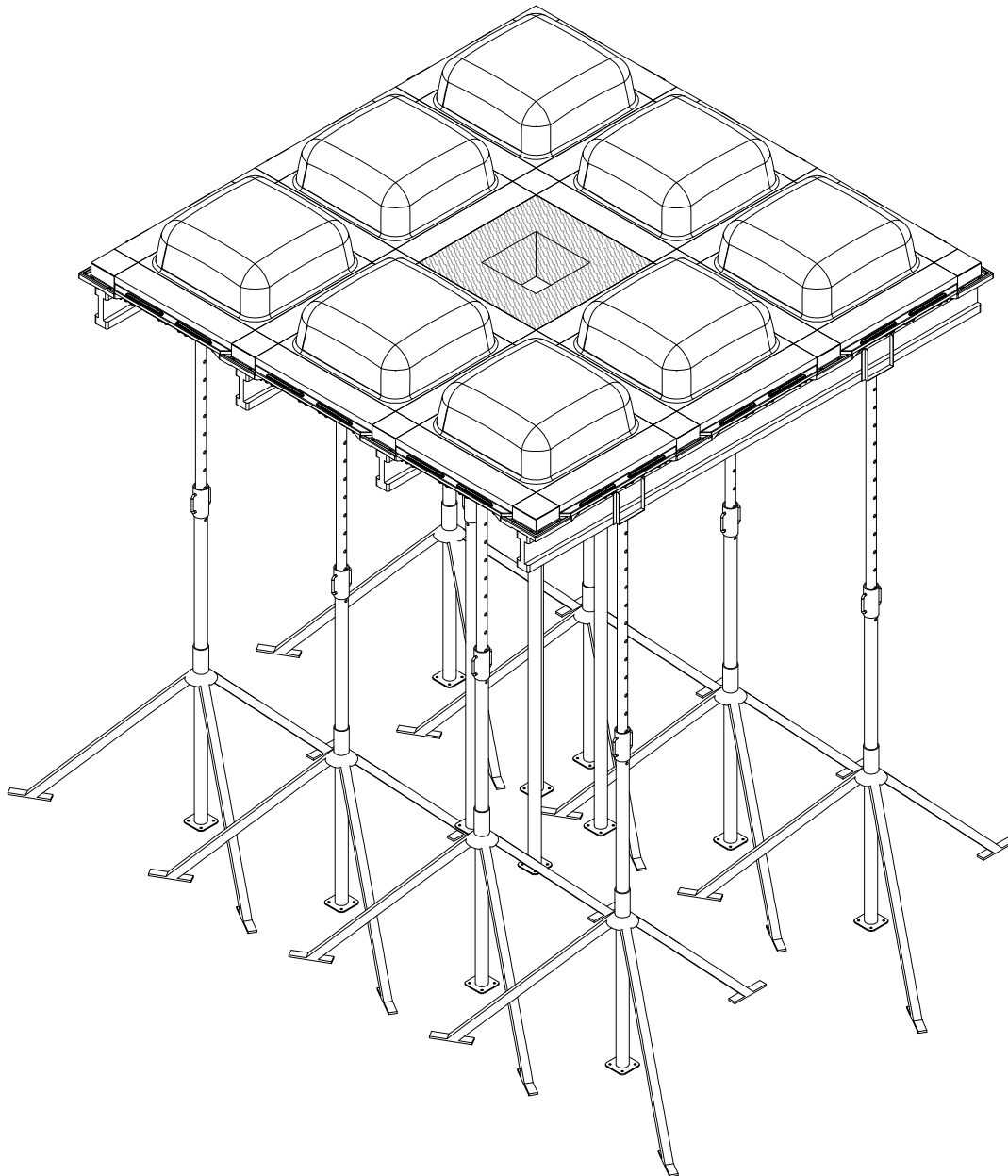
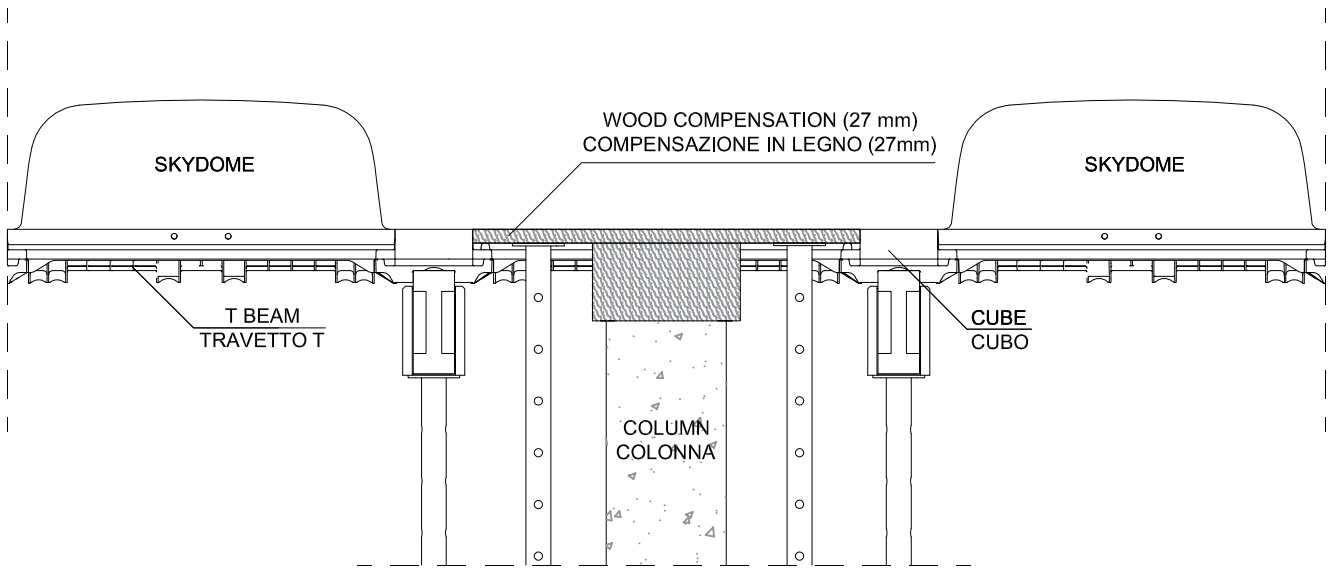


FRONT VIEW





FRONT VIEW



POUR

Only immersion type concrete vibrators are approved for use. The ABS formwork is not fireproof, do not place close to free flame or hot objects.

HANDLING

Use the lifting clamp to transport the formwork with a crane. Before lifting make sure the load is symmetrical and that the leg lengths are equal. Follow the diagram on p. 25 for the correct use of the lifting clamp.

ABS FORMWORK CLEANING

ABS is a particularly smooth and non-porous material on which concrete has difficulty adhering.

After each use, clean the formwork jet-washers, preferably using a high-pressure cleaner with a maximum pressure of 1.000 bar max. We recommend removing any concrete build-up with the help of plastic scrapers or brushes.

In the case of old concrete residues or encrustations that are particularly difficult to remove, we recommend cleaning with suitable concrete remover products based on vegetal oils.

The application of products containing alcohol or polycyclic aromatic hydrocarbons (PAH), such as benzene, is not permitted.

APPLICATION OF RELEASE AGENTS

As long as the contact surface of ABS formwork shows no signs of wear, no release agent is required prior to pouring.

Only release agents based on vegetal oils may be used, i.e. these must not contain (even in minute concentrations) polycyclic aromatic hydrocarbons (PAH), such as benzene.

***ABS formwork may only be treated with vegetable oil-based products.***

STORAGE

Store formwork in a dry place, away from heat sources and out of direct sunlight.

GETTO

Sono ammessi solamente sistemi di vibrazione ad immersione. Il cassero un ABS non è ignifugo, non porre a contatto diretto con corpi incandescenti o a fiamma libera.

MOVIMENTAZIONE

Utilizzare il gancio per Geopanel per sollevare i pannelli con gru e, prima della movimentazione, assicurarsi che le funi di sollevamento abbiano un uniforme tiraggio. Seguire lo schema di pag. 44 per il corretto utilizzo del gancio.

PULIZIA DEI PRODOTTI IN ABS

L'ABS è un materiale particolarmente liscio e non poroso sul quale il calcestruzzo ha difficoltà ad aderire.

Al termine di ogni utilizzo pulire i casseri con getti di acqua, preferibilmente utilizzando un'idropulitrice con pressione massima di 1.000 bar. Si consiglia di rimuovere eventuali incrostazioni del calcestruzzo con l'ausilio di spatole o spazzole in plastica.

In caso di vecchi residui di calcestruzzo o incrostazioni particolarmente difficili da rimuovere, si consiglia l'intervento di pulizia tramite prodotti decapanti a base oli vegetali.

Non è consentita l'applicazione di prodotti contenenti alcool o idrocarburi policiclici aromatici (IPA), come ad esempio benzene.

APPLICAZIONE DI PRODOTTI DISTACCANTI

Finché la superficie di contatto dei prodotti in ABS non mostra segni di usura, non è necessario alcun agente distaccante prima del getto.

È permesso l'utilizzo di prodotti distaccanti solo a base di oli vegetali, quindi questi non devono contenere (nemmeno in minime concentrazioni) idrocarburi policiclici aromatici (IPA), come ad esempio benzene.

***I casseri in ABS possono essere trattati solo con prodotti a base di oli vegetali.***

STOCCAGGIO

Stoccare i prodotti in ABS in luoghi asciutti, distanti da fonti di calore e al riparo dalla luce diretta del sole.

The operations of placing, assembly, disassembly, plumb, handling and cleaning of the Geopanel product, as well as the pouring of the concrete must be carried out by qualified and properly trained personnel, or under the supervision of the Site Manager or an Engineer of Geoplast SpA, who must ensure that:

- all the above operations are carried out in a workmanlike manner,
- every person working with the formwork is equipped with suitable tools and personal protective equipment to perform all necessary actions in compliance with the safety standards,
- all panels and the supplied accessories are checked before use, and that any part that does not meet the minimum standards of reliability and safety due to deformation or breakage is discarded,
- the formwork is installed on a perfectly flat surface, so as to work in maximum safety conditions and guarantee perfect propping and plumb,
- all connection, alignment and plumb accessories of the formwork are tight and fixed to the ground before beginning the pour.

Geoplast SpA disclaims any liability arising from improper use of the formwork Geopanel. Any assembly of formwork and/or use of accessories otherwise described in this manual must first be approved by Geoplast SpA.

Le operazioni di posizionamento, montaggio, smontaggio, messa a piombo, movimentazione e pulizia del prodotto Geopanel, nonché del getto del calcestruzzo, devono essere effettuate da personale competente e debitamente istruito o comunque sotto il controllo del responsabile di cantiere oppure di un tecnico Geoplast SpA, i quali devono assicurarsi che:

- tutte le operazioni sopra elencate vengano svolte a regola d'arte,
- gli addetti alle operazioni sopra elencate siano muniti di idonea strumentazione e di dispositivi di protezione individuale per poter effettuare tutte le azioni nel pieno rispetto delle norme di sicurezza,
- tutti i pannelli e gli accessori in dotazione vengano controllati prima del loro utilizzo, in modo tale da poter eliminare quelli che non abbiano sufficiente garanzia di affidabilità a causa di eventuali presenze di rotture e/o deformazioni,
- il piano di appoggio dei casseri sia perfettamente piano, in modo da poter operare in massima sicurezza e garantire la perfetta puntellazione e piombatura dei pilastri,
- tutti gli accessori di collegamento, di allineamento e di piombatura dei casseri, siano ben serrati e fissati al suolo prima di iniziare le operazioni di getto.

Geoplast SpA declina ogni responsabilità derivante da un uso improprio dei casseri Geopanel. Eventuali assemblaggi dei casseri e/o uso di accessori diversamente illustrati in questo manuale, devono essere prima approvati da Geoplast SpA.



**GEOPLAST S.p.A.**

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