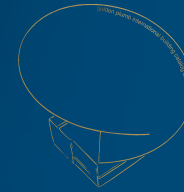


# abs Disposable Formworks



## DISPOSABLE FORMWORKS FOR LIGHTWEIGHT FILLINGS



**GOLDEN PLUMB  
INTERNATIONAL  
BUILDING CATALOG  
AWARDS**

"Innovative Structural Product"



LIGHT



FAST



EASY



ECONOMICAL

Ref: Togg Gemlik Campus, Yapı Merkezi

FIXED



**ABS LEVEL**

ADJUSTABLE



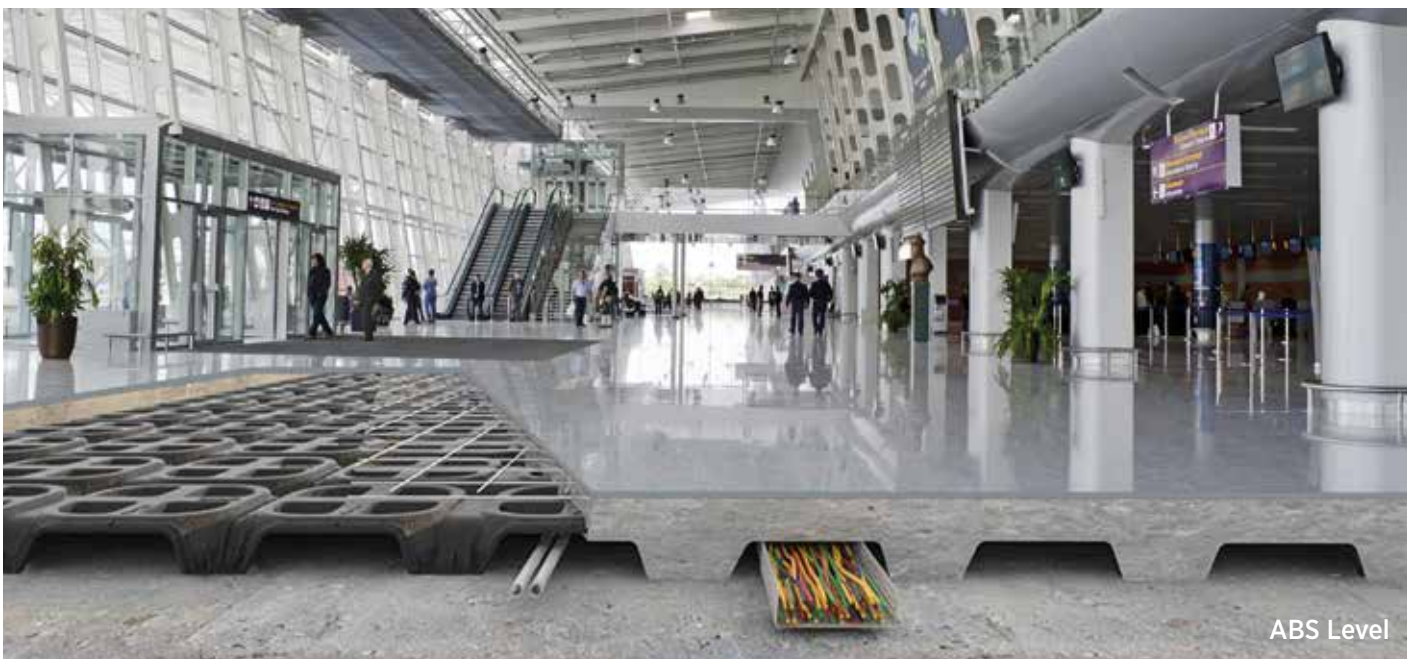
**ABS PLUS**

## ABS DISPOSABLE FORMWORKS FOR LIGHTWEIGHT FILLINGS



ABS Disposable Formworks are concrete shaping structures made of recycled plastic that are used only once. They are also called void formers, permanent formworks or single-use formworks. They create reinforced concrete raised floors up to 9 feet thus providing a light, fast, easy and economical filling in any structure. Reinforced concrete raised floors are constructed faster and easier, are lighter weight and are more economical than conventional filling applications.

ABS Disposable Formworks can be used for any sort of lightweight filling application. Uses include sunken slab fillings, landscape fillings to create a hard surface, inverted beam fillings, fillings between foundation footings, carpark ramps, pool decks, elevator/staircase hallway fillings and crawlspace construction. In addition, reinforced concrete raised floors created with disposable formworks can be used instead of modular raised floors by adding a grid of simple junction boxes to the system.



## ADVANTAGES



### THE LIGHTEST SOLUTION

Regardless of the height, only the weight of the topping concrete is added to the structure.



### EASE OF LOGISTICS

Unmatched logistical advantage; products are designed to be stackable, nesting in each other. At a sample height of 3' 3" (≈100 cm), 1 truck of disposable formwork equivalents 50 trucks of alternative filling material!



### HIGH LOAD BEARING

Through the creation of hundreds of columns, arches and domes, the reinforced concrete raised floor has a very high load bearing capacity.



### REDUCED CONSTRUCTION TIME

Construction activities on upper floors can proceed without having to wait for the filling application on lower floors, as the filling application can be done anytime, saving very valuable construction time.



### VOID SPACE CREATION

The void space that gets created can be used for installations (electrical, mechanical, etc.) to pass through; columns have a net opening of ≈2' (59 cm).



### FAST AND EASY

The installation does not require any skilled labor; it can be done very fast and easy.



### RAMP CONSTRUCTION

The legs can be cut at any size needed to create a ramp.



### CONTINUOUS CONCRETE SURFACE

Any sort of covering application can be applied on the concrete surface very easily.



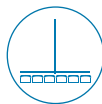
### HEAT AND SOUND INSULATION

The void space that gets created provides heat and sound insulation.



### RADON AND DAMP BARRIER

If used above foundations and properly ventilated, it is the most economical and safest way to removing radon gas, humidity and dampness from living quarters.



### SEPARATOR WALL CONSTRUCTION

Separator walls can be installed directly on the newly created concrete surface.



### ENVIRONMENTAL VALUE

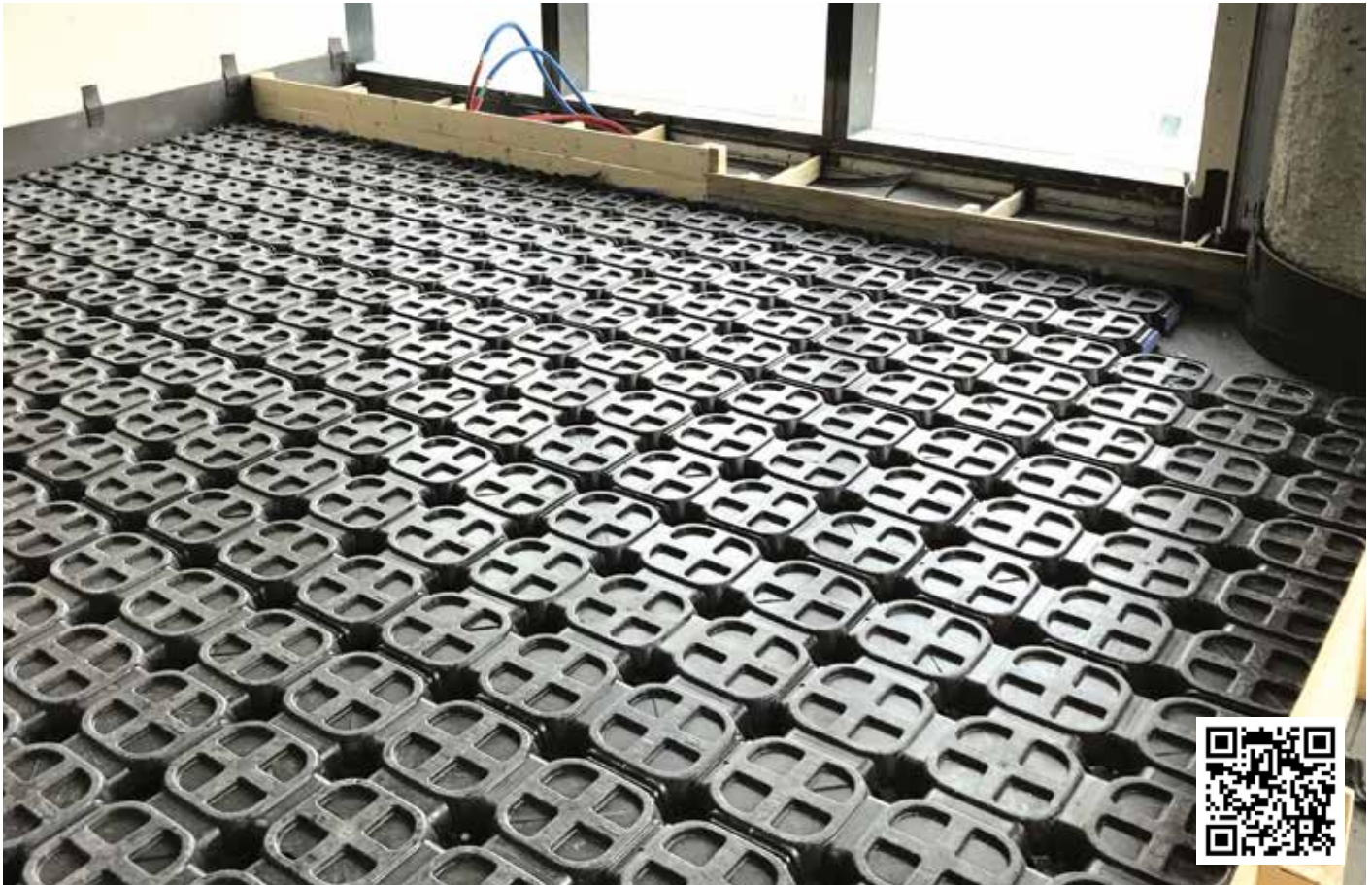
Because the disposable formworks are made of recycled PP, they help to gain considerable LEED certificate points.

ABS Disposable Formwork System for lightweight fillings is the first domestic product group in its field with National Technical Approval and G marking.



**ABS LEVEL**

**FIXED-HEIGHT ≈2", ≈4", ≈6" (5, 10, 15 cm)**

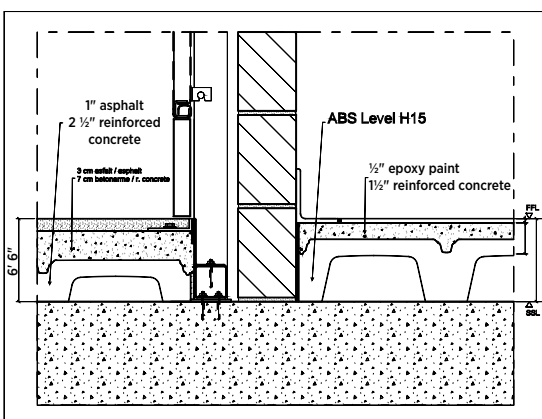


**ABS LEVEL | FIXED-HEIGHT DISPOSABLE FORMWORKS FOR LIGHTWEIGHT FILLINGS ≈2", ≈4", ≈6" (5, 10, 15 cm)**

The 'Level' series of ABS Disposable Formworks offers fixed-heights of ≈2", ≈4", ≈6" (5, 10, 15 cm) in to create reinforced concrete raised floors in commercial or industrial structures quickly, easily and extremely economically. The formworks are made of recycled plastic and are specifically designed to enable cable trays and/or plumbing pipes to pass through.

The products can be used alternatively to modular raised floor applications with metal pedestals. Moreover, commercial areas there are conventionally filled with 3"-4" dry screed to obtain as smooth concrete finish can be constructed as a reinforced concrete raised floor using ABS Level disposable formworks and junction boxes, which allows electrical and mechanical installations to pass through them. The space that normally would have been lost, can now be added to the usage area of the building.

- 1) ABS Level - H5 (height ≈2", area 1 pcs ≈5 ft<sup>2</sup>)
- 2) ABS Level - H10 (height ≈4", area 1 pcs ≈5 ft<sup>2</sup>)
- 3) ABS Level - H15 (height ≈6", area 1 pcs ≈5 ft<sup>2</sup>)



Sample Cross Section

ABS Level - H5

ABS PLUS

ADJUSTABLE-HEIGHT 6" - 9' (20 - 300 cm)



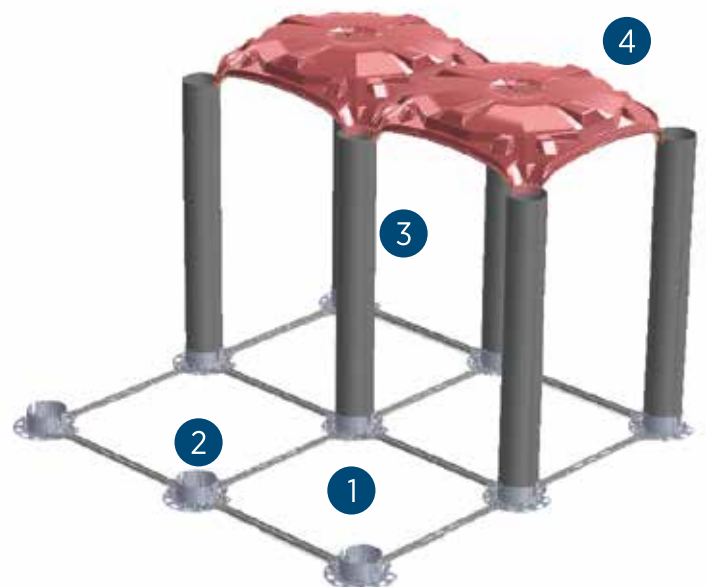
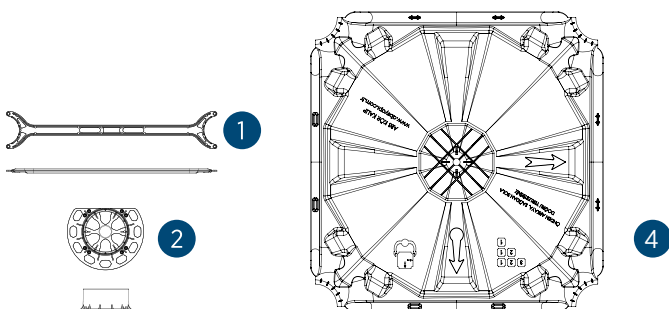
### ABS PLUS | ADJUSTABLE-HEIGHT DISPOSABLE FORMWORK SYSTEM FOR LIGHTWEIGHT FILLINGS 6" - 9' (20 - 300 cm)

ABS Plus is an adjustable-height disposable concrete formwork system made of recycled plastic. The system creates reinforced concrete raised floors up to 9 feet, thus providing a light, fast, easy and economical filling in any structure.

To accommodate project-specific heights, the legs are cut to specification at the factory before delivery. Alternatively, standard-length legs can be cut on-site by the customer fitting exact heights.

Unlike similar systems, the ABS Plus system consists of 2 legs per  $\approx 10 \text{ ft}^2$ , which, in addition to all of its advantages, providing additional ease of application and significant cost saving on concrete and steel.

- 1) ABS Plus - Spacer
- 2) ABS Plus - Base
- 3) ABS Plus - Leg (cut to size required by the project)
- 4) ABS Plus - H15 Dome (height  $\approx 6''$ , area 1 pcs  $\approx 5 \text{ ft}^2$ )



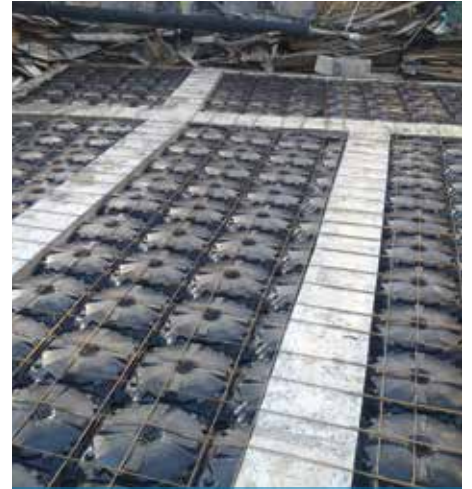
## USAGE AREAS



Sunken Slab Filling



Landscape Filling



Inverted Beam Filling



Filling Between Foundation Footings



Car Park Ramp



Pool Deck Slab Filling



Elevator/Staircase Hallway Filling



Crawl Space Construction



Reinforced Concrete Raised Floor

## REFERENCE APPLICATION

### LIGHTWEIGHT FILLING ON FLOOR

PROJECT : AND Pastel  
LOCATION : Istanbul, Turkey  
PRODUCT : ABS Plus, variable heights  
APPLICATION : Lightweight filling application above the carpark slab to construct a concrete surface



## REFERENCE APPLICATION

### LIGHTWEIGHT FILLING ON FLOOR

PROJECT : Şaşkınbakkal Residence  
LOCATION : Istanbul, Turkey  
PRODUCT : ABS Plus H 7' 8½"  
APPLICATION : Lightweight filling application above the carpark slab to construct a concrete surface

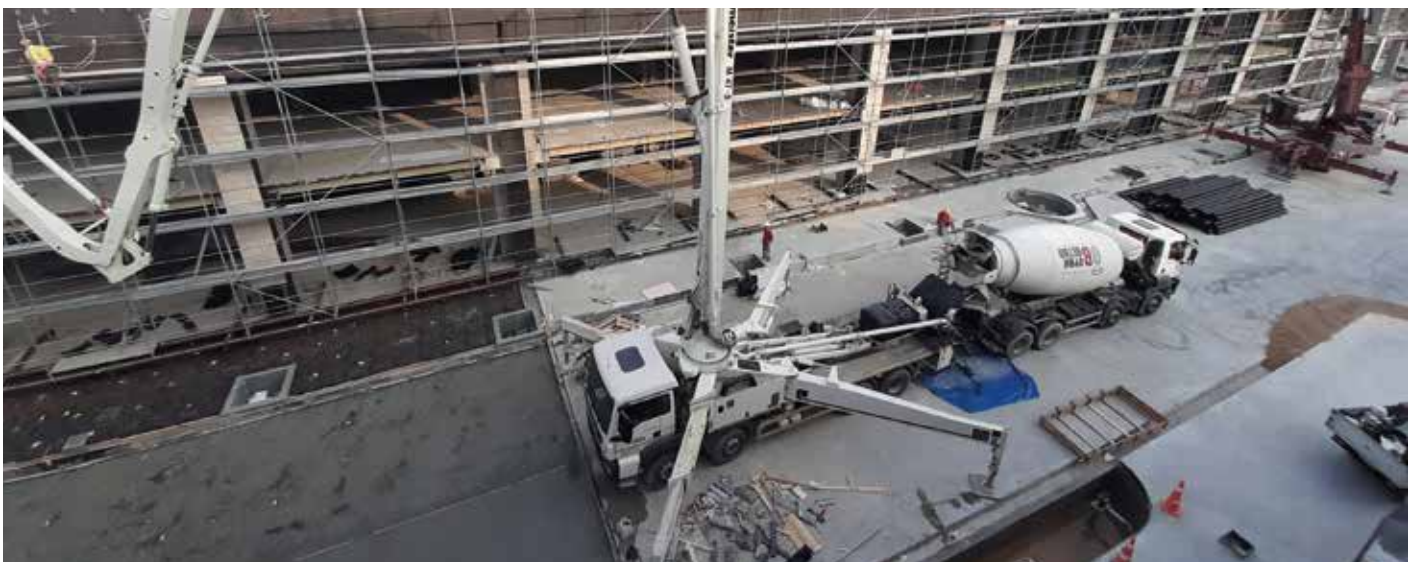
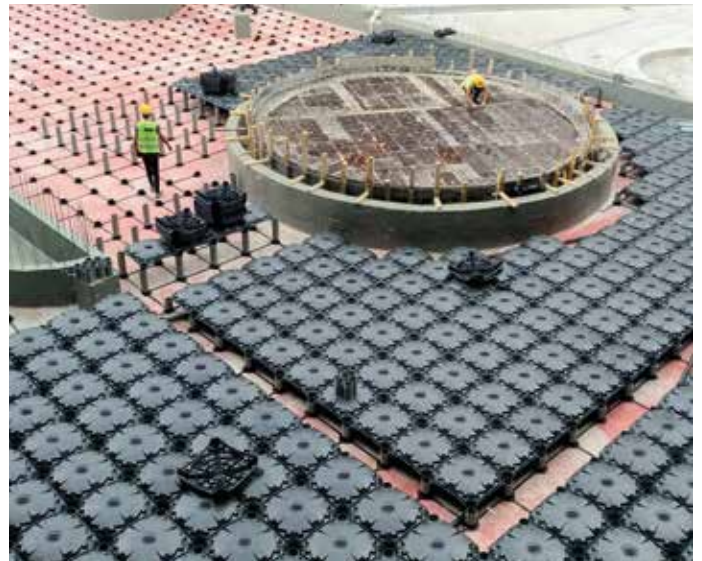




## REFERENCE APPLICATION

### LIGHTWEIGHT FILLING ON FLOOR

PROJECT : IstinyePark Izmir  
LOCATION : Izmir, Turkey  
PRODUCT : ABS Plus various and graded heights  
APPLICATION : Lightweight filling application on the main arcade and podium areas of the shopping mall



## REFERENCE APPLICATION

### SUNKEN SLAB FILLING

PROJECT : Multistory Residential Project  
LOCATION : Far East  
PRODUCT : ABS Plus H ≈12”  
APPLICATION : ≈12” sunken slab filling application for wet areas on each floor, dense installation passages



## REFERENCE APPLICATION

### PEYZAJ DOLGUSU LANDSCAPE FILLING

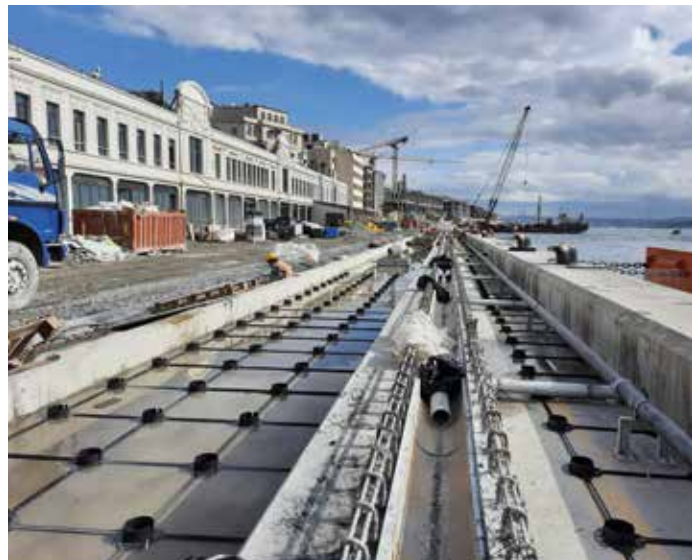
PROJECT : Istanbul Financial Center  
LOCATION : Istanbul, Turkey  
PRODUCT : ABS Plus Disposable Formwork H ≈1'  
APPLICATION : 2" Construction of hardscape surfaces  
between building blocks on the podium  
area



## REFERENCE APPLICATION

### LANDSCAPE FILLING

PROJECT : Galataport  
LOCATION : Istanbul, Turkey  
PRODUCT : ABS Plus H ≈2'  
APPLICATION : Landscape filling application on the seaside of the Galataport project



## REFERENCE APPLICATION

### LANDSCAPE FILLING

PROJECT : Gaziantep Iconova  
LOCATION : Gaziantep, Turkey  
PRODUCT : ABS Plus H  $\approx$ 1' 8"  
APPLICATION : Lightweight landscape filling application above podium floor to construct a concrete surface



## REFERENCE APPLICATION

### FILLING BETWEEN FOUNDATION FOOTINGS

PROJECT : İzmir Hilltown  
LOCATION : İzmir, Turkey  
PRODUCT : ABS Disposable Formwork H 2' 7½"  
APPLICATION : Filling application between the foundation footings above the raft foundation



## REFERENCE APPLICATION

### FILLING BETWEEN FOUNDATION FOOTINGS

PROJECT : Portonovi Hotel  
LOCATION : Herseg Novi, Montenegro  
PRODUCT : ABS Plus H ≈4' 5"  
APPLICATION : Filling application between the foundation footings above the raft foundation with many installation passages



## REFERENCE APPLICATION

### FILLING BETWEEN FOUNDATIONS FOOTINGS

PROJECT : TOGG Gemlik Campus  
LOCATION : Bursa, Turkey  
PRODUCT : ABS Disposable Formwork H 8' 2½"  
APPLICATION : Filling application between the foundation footings above the raft foundation





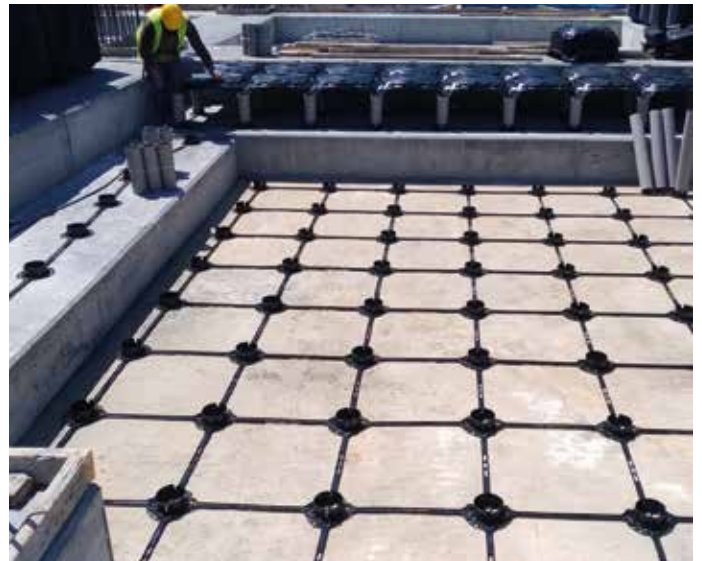
## REFERENCE APPLICATION



## REFERENCE APPLICATION

### FILLING BETWEEN FOUNDATION FOOTINGS

PROJECT : Kurkcuoglu Factory  
LOCATION : Izmit, Turkey  
PRODUCT : ABS Plus H  $\approx$ 3' 3"  
APPLICATION : Filling application between the foundation footings above the raft foundation



## REFERENCE APPLICATION

### RAMP CONSTRUCTION

PROJECT : Sabah Al-Salem University  
LOCATION : Kuwait City, Kuwait  
PRODUCT : ABS Plus, variable heights  
APPLICATION : Ramp construction so that steps can be constructed later on between the floors of the stadium



## REFERENCE APPLICATION

### CAR PARK RAMP

PROJECT : Emaar Square Shopping Mall  
LOCATION : Istanbul, Turkey  
PRODUCT : Disposable Formwork, variable heights  
APPLICATION : Car park ramp construction above cascaded floor slab



## REFERENCE APPLICATION

### POOL DECK SLAB FILLING

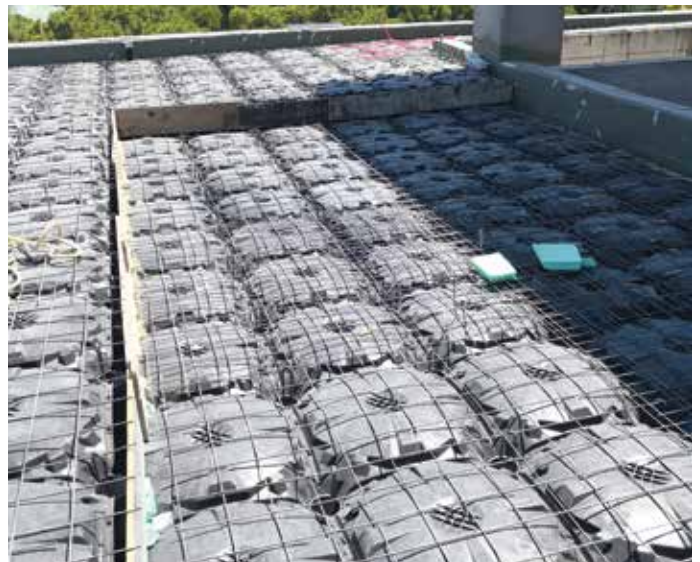
PROJECT : Tekinalp Residence  
LOCATION : Istanbul, Turkey  
PRODUCT : ABS Plus H ≈1' 7"  
APPLICATION : Lightweight filling application above the car park slab and around the swimming pool to construct a concrete surface



## REFERENCE APPLICATION

### POOL DECK SLAB FILLING

PROJECT : IstinyePark Izmir  
LOCATION : Izmir, Turkey  
PRODUCT : ABS Plus various and graded heights  
APPLICATION : Lightweight filling application on the main arcade and podium areas of the shopping mall



## REFERENCE APPLICATION

### POOL DECK SLAB FILLING

PROJECT : Rumeli Villas  
LOCATION : Istanbul, Turkey  
PRODUCT : ABS Plus H ≈5' 10"  
APPLICATION : Lightweight filling application and construction of a concrete surface around a swimming pool that was constructed above an indoor floor.



## REFERENCE APPLICATION

### POOL FILLING

PROJECT : Marsa Arabia  
LOCATION : Qatar City, Qatar  
PRODUCT : ABS Disposable Formwork H ≈ 3' 1"  
APPLICATION : Outdoor swimming pool filling





## REFERENCE APPLICATION

### CRAWL SPACE CONSTRUCTION

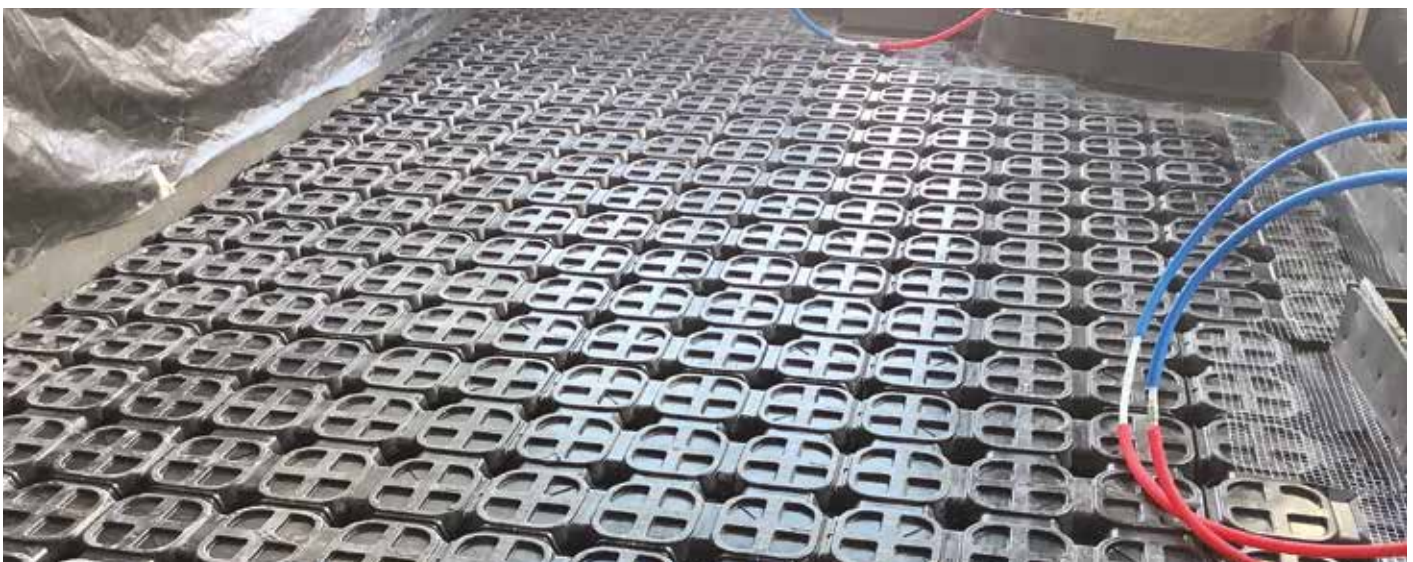
PROJECT : Manavgat Villas  
LOCATION : Antalya, Turkey  
PRODUCT : ABS Plus Disposable Formwork H ≈2' 5"  
APPLICATION : Construction of crawl space above house foundation



## REFERENCE APPLICATION

### REINFORCED CONCRETE RAISED FLOORS

PROJECT : Emaar Square Shopping Mall  
LOCATION : Istanbul, Turkey  
PRODUCT : ABS Level Disposable Formwork H  
APPLICATION : ≈2" Reinforced concrete raised floor application on the high floors of the building, which allows cable trays to pass under it



## REFERENCE APPLICATION

### REINFORCED CONCRETE RAISED FLOORS

PROJECT : Ankara Space and Aviation Organized  
Industrial Zone

LOCATION : Ankara, Turkey

PRODUCT : ABS Plus H 2' 7½"

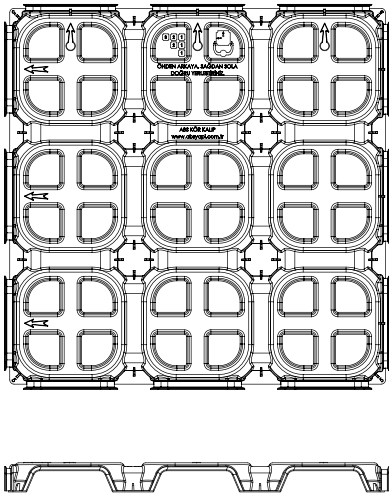
APPLICATION : Construction of reinforced concrete raised  
floor on top of the raft foundation



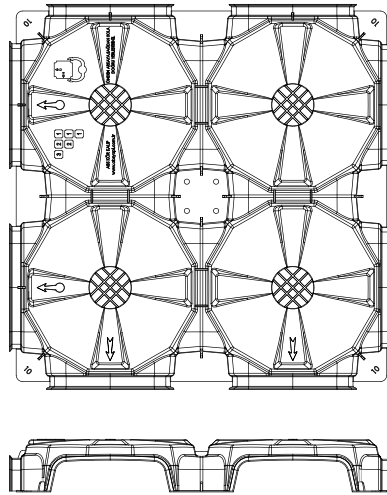
ABS LEVEL

TECHNICAL DATA SHEET

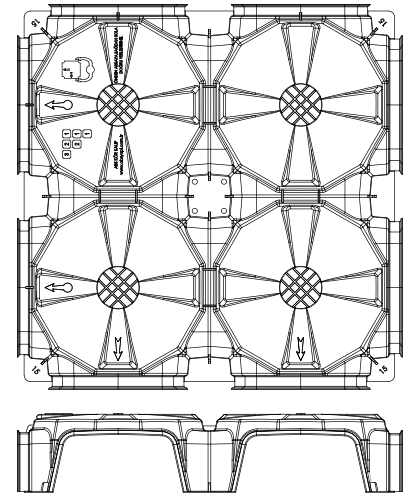
ABS Level - H ≈2" (5 cm)



ABS Level - H ≈4" (10 cm)



ABS Level - H ≈6" (15 cm)



Dimensions

Height ≈2", area 1 pcs ≈5 ft<sup>2</sup> (5 cm, 2 pcs 1 m<sup>2</sup>)  
 ≈2' 4" x ≈2' 4" x ≈2 (71 x 71 x 5 cm)  
 3.92 lbs/pcs (1.78 kg/pcs)  
 9 domes per formwork

Height ≈4", area 1 pcs ≈5 ft<sup>2</sup> (10 cm, 2 pcs 1 m<sup>2</sup>)  
 ≈2' 4" x ≈2' 4" x ≈2 (71 x 71 x 10 cm)  
 4.32 lbs/pcs (1.96 kg/pcs)  
 4 domes per formwork

Height ≈6", area 1 pcs ≈5 ft<sup>2</sup> (15 cm, 2 pcs 1 m<sup>2</sup>)  
 ≈2' 4" x ≈2' 4" x ≈2 (71 x 71 x 15 cm)  
 4.76 lbs/pcs (2.16 kg/pcs)  
 4 domes per formwork


Net arch opening

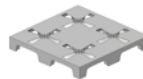
Width ≈6" (16 cm)  
 Height ≈1½" (4 cm)

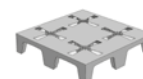
Width ≈9" (23 cm)  
 Height ≈2½" (6 cm)

Width ≈10" (25 cm)  
 Height ≈4½" (11 cm)

Concrete consumption

0.032 ft<sup>3</sup>/ft<sup>2</sup>  (0.010 m<sup>3</sup>/m<sup>2</sup>)

0.071 ft<sup>3</sup>/ft<sup>2</sup>  (0.022 m<sup>3</sup>/m<sup>2</sup>)

0.083 ft<sup>3</sup>/ft<sup>2</sup>  (0.025 m<sup>3</sup>/m<sup>2</sup>)

Pallet dimensions

2' 5½" x 4' 11" x 8' 6½" (75 x 150 x 260 cm)

2' 5½" x 4' 11" x 8' 6½" (75 x 150 x 260 cm)

2' 5½" x 4' 11" x 8' 6½" (75 x 150 x 260 cm)

Pieces per pallet and area covered

300 pcs ≈1600 ft<sup>2</sup> (150 m<sup>2</sup>)

250 pcs ≈1350 ft<sup>2</sup> (125 m<sup>2</sup>)

250 pcs ≈1350 ft<sup>2</sup> (125 m<sup>2</sup>)

Pallet weight

1202 lbs (545 kg)

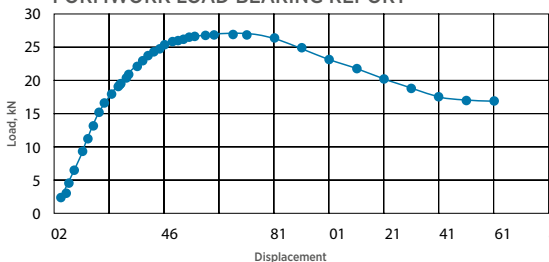
1102 lbs (500 kg)

1213 lbs (550 kg)

Material: recycled PP

Application speed: ≈1000 ft<sup>2</sup> (100 m<sup>2</sup>) man-hour on a rectangular area

FORMWORK LOAD BEARING REPORT



Sample No	Sample Type	Sample Size	Plate Size	(lbs)	(lbs/ft <sup>2</sup> )
1	ABS Level H ≈2" ≈2' 4" x ≈2' 4" x ≈2" x ≈1' ≈1' 6" x ≈1' 6"			6059 lbs	2780 lbs/ft <sup>2</sup>
1	ABS Level H5	710x710x50 mm	450x450 mm	26.950 kN	133.1 kN/m <sup>2</sup>

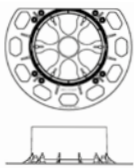
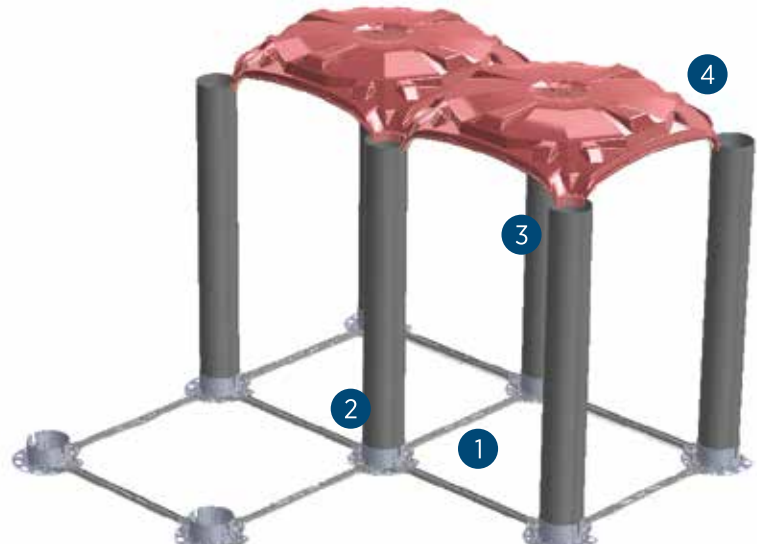
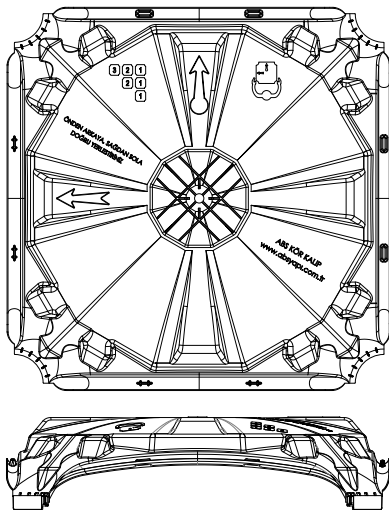


- Please contact us for more detailed information.

ABS PLUS

TECHNICAL DATA SHEET

ABS Plus H ≈8" - H ≈120" (20 cm - 300 cm)



- 1) ABS Plus - Spacer
- 2) ABS Plus - Base
- 3) ABS Plus - Leg (cut to size required by the project)
- 4) ABS Plus - HI5 Dome (height ≈6", area 1 pcs ≈5 ft<sup>2</sup>)

Dimensions

Dome size	≈2½" net arch height	(6.1 cm)
Dome height	≈6" dome height w/o leg connections	(15 cm)
	≈2½" net arch height	(6.1 cm)
Base height	1"	(2.5 cm)
Leg diameter	Ø ≈5"	(Ø 12.5 cm)
Leg height	Variable heights, depending on requirement	
Number of spacers needed	Max 4; lower than 20" heights may not require use of spacers, however all spacers are need for heights more than 4'	(≈50 cm) (≈120 cm)

Pallet dimensions

Pallet dimensions (dome)	2' 5½" x 4' 11" x 8' 4½"	(75 x 150 x 255)
Pieces per pallet (dome)	170 pcs	
Area covered per pallet (dome)	915 ft <sup>2</sup>	(85 m <sup>2</sup> )
Pallet weight (dome)	772 lbs	(350 kg)

Material: dome, base and spacer recycled PP, leg recycled PVC  
 Application speed: 200 ft<sup>2</sup> (≈20 m<sup>2</sup>)/man-hour on a rectangular area

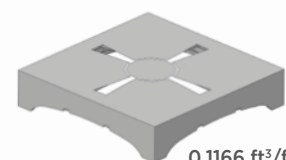
Formulas

h = height in inches of the topping concrete calculated separately depending on the live loads needed  
 H = total height of the ABS Plus system in inches before concrete casting

Leg height in inches =  $H - 6'' - 1''$  (m = H - 0.15 - 0.025)

Total concrete consumption in ft<sup>3</sup>/ft<sup>2</sup> =  $h + 0.1166 + [(H - 6'') \times (0.0805)]$   
 (m<sup>3</sup>/m<sup>2</sup> =  $h + 0.03554 + [(H - 0.15) \times (0.02453)]$ )

Dome Concrete Consumption



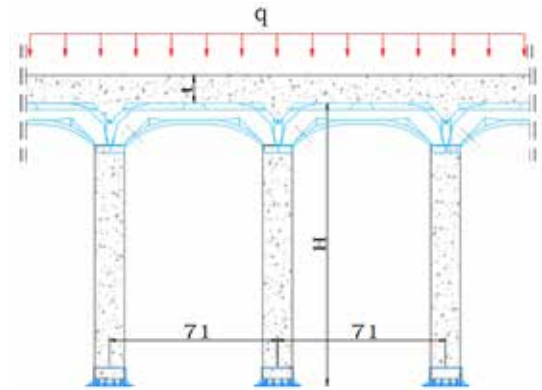
0.1166 ft<sup>3</sup>/ft<sup>2</sup>  
 (0.0355 m<sup>3</sup>/m<sup>2</sup>)

# ABS PLUS DESIGN DATA SHEET

The design calculation of reinforced concrete raised floors is made based on a simple structure consisting of columns and a slab, as in other reinforced concrete structures.

The configuration is just like the column-beam-floor structure of any building. The intended use of the structure is considered when determining the live and dead (fixed) design loads.

The transfer of loads from the slab to the columns takes place through the arches of the domes. However, to stay on the safe side, the load design of the domes and arches is not considered, only the slab and column calculations are made.



Typical Section

Table: Maximum Allowable Live Load - rounded  $q_{max}$  (lbs/ft<sup>2</sup>)

Istanbul Technical University, Product Report 2018

Disposable Formwork Height H (inch)	Column Reinforcement		Slab Reinforcement																										
			4 x #4	4 x #3	2 x #4	2 x #3	#4	#3	2 x #4	2 x #3	#4	#3	2 x #4	2 x #3	#4	#3	2 x #4	2 x #3	#4	#3	w/o rebar								
Applies to both C25 and C30 concrete classes.	100	4 x #4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1100	-	1100			
		4 x #3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1100	-	1100		
		2 x #4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1100	-	1100		
	80	2 x #3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1100	-	1100		
		#4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1100	-	1100		
		#3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1100	-	1100		
	60	2 x #4	600	1100	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1550	1550	1550	1550
		2 x #3	600	1100	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1550	1550	1550	1550
		#4	600	1100	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
	40	#3	600	1100	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
		2 x #4	600	1100	1600	1700	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
		2 x #3	600	1100	1600	1700	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
20	#4	600	1100	1600	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	
	#3	600	1100	1600	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	
	2 x #4	600	1100	1600	1700	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	
	2 x #3	600	1100	1600	1700	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	
	#4	600	1100	1600	1700	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	
	#3	600	1100	1600	1700	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	
	2 x #4	600	1100	1600	1700	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2250	2250	2250	2250	
	2 x #3	600	1100	1600	1700	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2250	2250	2250	2250	
	#4	600	1100	1600	1700	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2100	2100	2100	2100	
	#3	600	1100	1600	1700	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2100	2100	2100	2100	
	w/o rebar	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
	Slab Thickness t (inch)	2		4				6																					
Slab Reinforcement		W3 - 4" x 4"	W6 - 4" x 4"	W3 - 4" x 4"	2 x W3 - 4" x 4"	W6 - 4" x 4"	2 x W6 - 4" x 4"	W10 - 4" x 4"	2 x W10 - 4" x 4"	W6 - 4" x 4"	2 x W6 - 4" x 4"	W10 - 4" x 4"	2 x W10 - 4" x 4"																

### Laboratory Test Results



Istanbul Technical University, Load Test Report 2018, 2021

Type	ABS Plus System Height (in)	Slab Concrete Thickness (in)	Rebar in Legs	Total Slab Thickness (in)	Maximum Load Record (lbs)
H 100"	≈100"	≈8"	4 x #4	≈108"	≈11,900
H 100"	≈100"	≈6"	4 x #4	≈106"	≈10,100
H 40"	≈40"	≈4"	2 x #4	≈44"	≈5,800
H 20"	≈20"	≈4"	2 x #4	≈24"	≈5,900
H 20"	≈20"	≈4"	n/a	≈24"	≈4,980
H 20"	≈20"	≈2"	n/a	≈22"	≈2,630

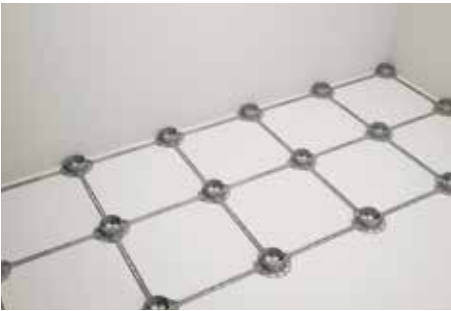
Istanbul Technical University, Formwork Resistance Report 2018

Sample No	Sample Type	Sample Size	Plate Size	Maximum Size	
				(lbs)	(lbs/ft <sup>2</sup> )
1A	ABS PLUS	≈2' 4" x ≈2' 4" x ≈1'	Ø ≈10"	300	180

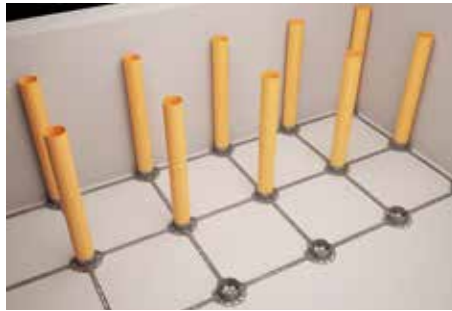
Please visit our web site at [disposableformwork.com/documents](https://disposableformwork.com/documents) for all and more precise data tables.

## ABS PLUS

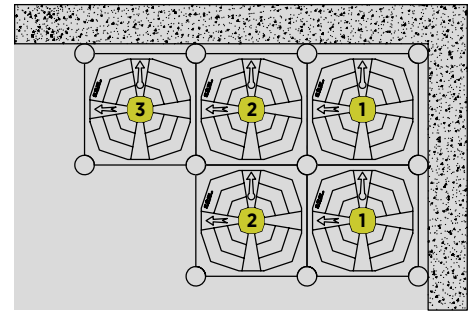
## INSTALLATION GUIDE



1. Place the bases using the spacers so that the base's flat side is adjacent to the wall. Cut the base creating a second edge so that it fits into a corner.



2. Press the legs that have been cut according to the project firmly into the base slots.



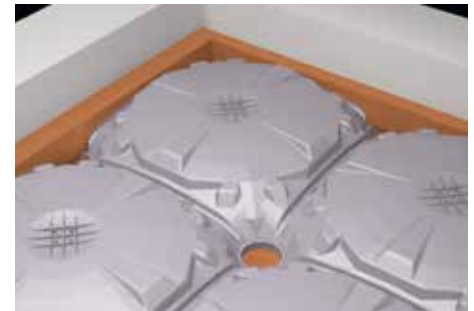
3. Place the domes on the legs, from right to left and from top to bottom, checking that the domes fit over each other and on the legs firmly. The arrows on the domes should always indicate the direction in which the installation operator looks.



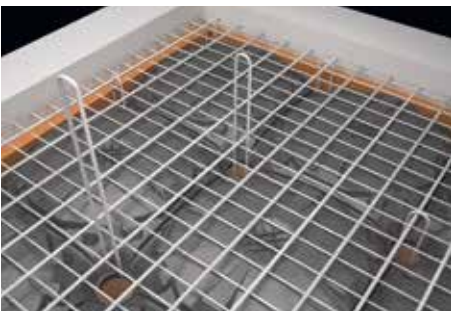
4. Inserting the last row of ABS Plus domes: Example 1; full dome on the wooden console attached to the wall.



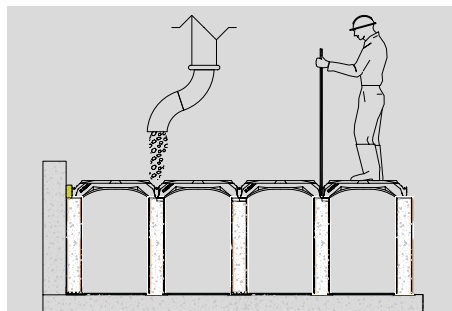
5. Inserting the last row of ABS Plus domes: Example 2; Placing a cut dome on the wooden console attached to the wall.



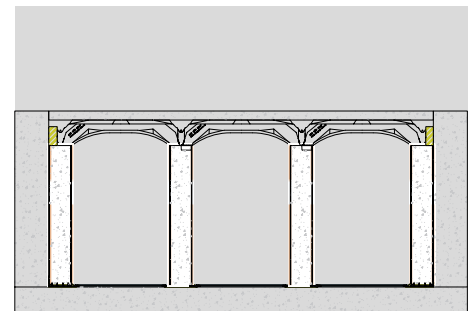
6. In the case of full-dome wall finishes where legs are adjacent to the walls, place ABS Plus dome side closer or 2" x 4" wooden wedges on the pipes and close the cavities against concrete leaks.



7. Place project specific welded steel mesh on the concrete-sealed disposable formworks and place vertical steel rebars into the legs.



8. First, fill the pipes with at least C25 class and at least S4 viscose concrete. The mouth of the pump hose should be kept up to ≈8" above the domes. Every leg should be stabbed with a steel rod to release the air trapped in the leg. Fill the domes and topping concrete after filling the legs.



9. Use a vibrator when pouring the concrete of the domes and topping slab. Depending on the ambient conditions, the concrete should be moistened sufficiently.

## INSTALLATION VIDEO

[disposableformwork.com/videos](https://disposableformwork.com/videos)



## INSTALLATION GUIDE

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# abs Disposable Formworks

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