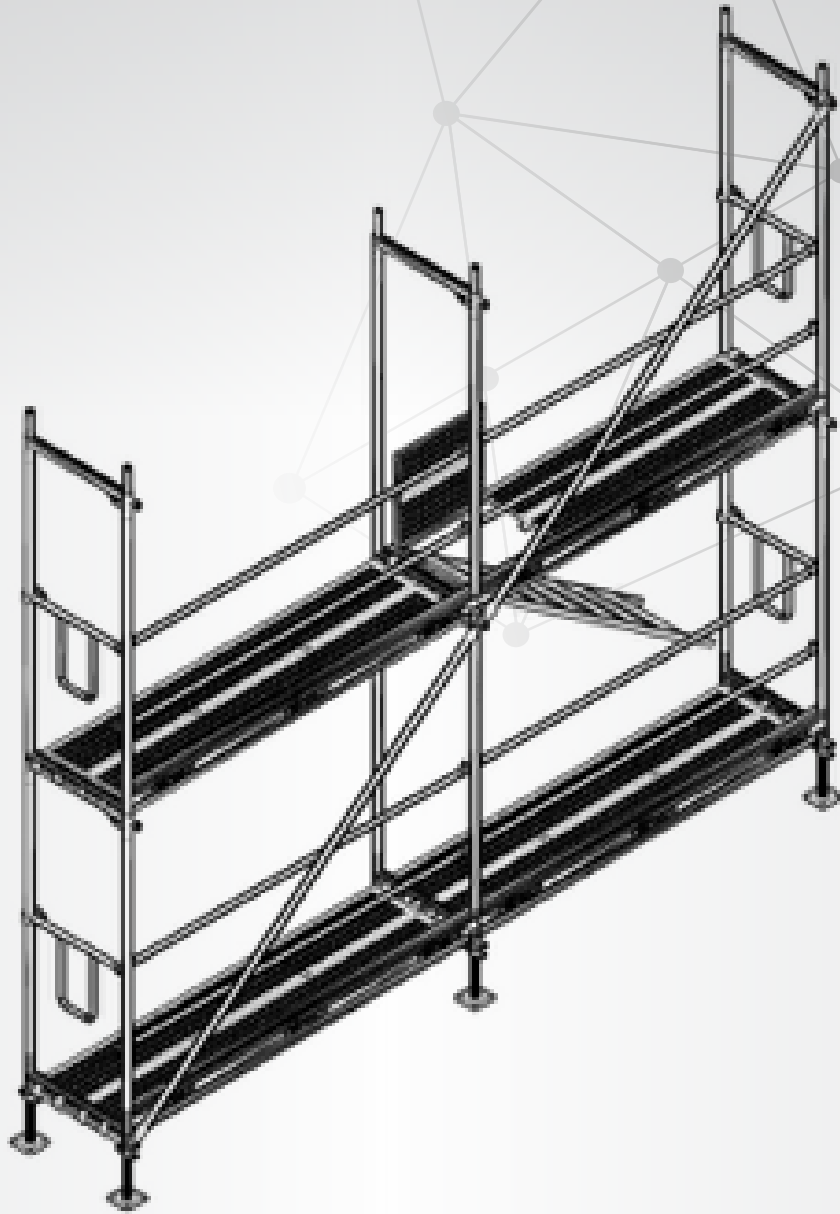


European H Shape Frame Scaffolding

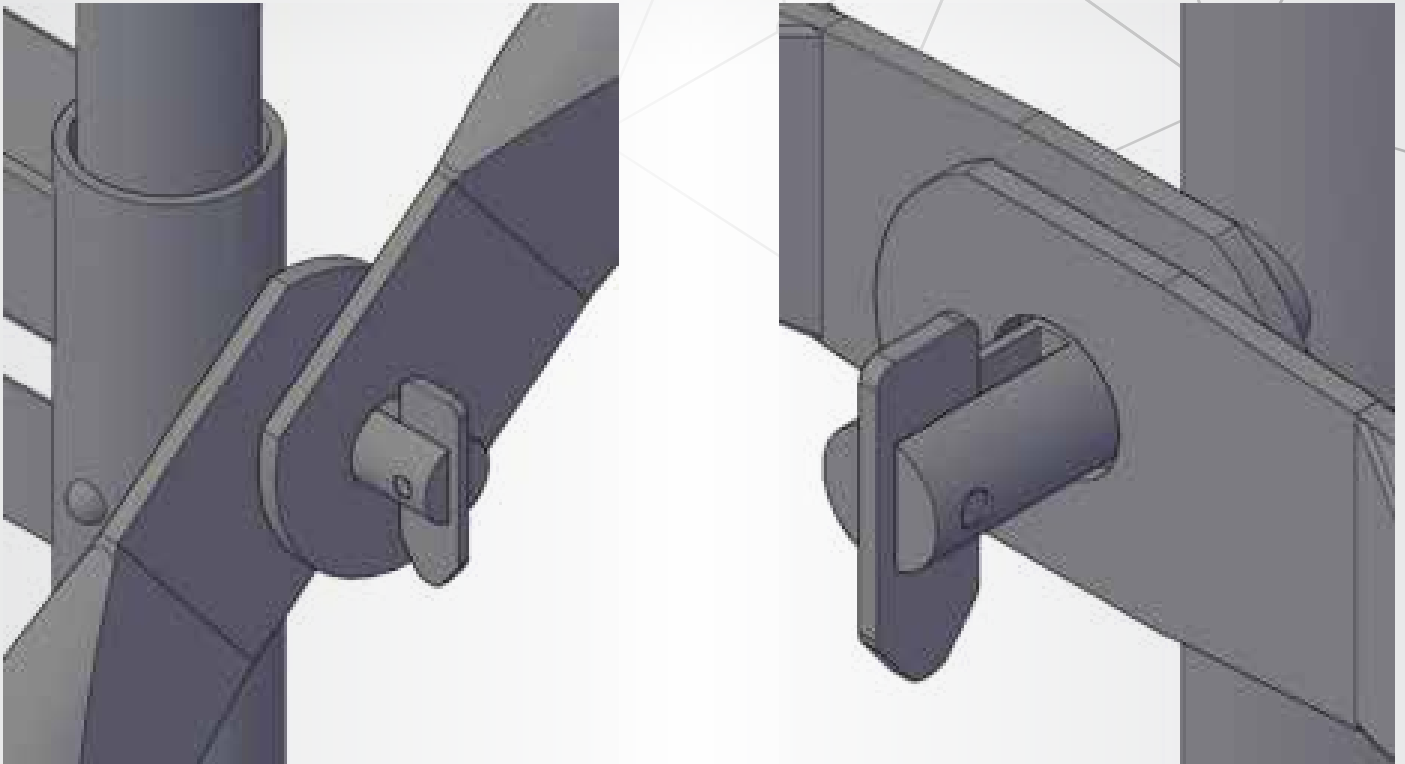


The European H shape frame scaffolding system is to be used on facades which has been produced in accordance with the structural design conditions stated by the following applicable regulations: EN 12810 - 4D - SW 06/250 - H2 - A/B - LS.

All elements have been processed by hot-dip galvanization in accordance with the standards stated by the EN 12811-2 regulation, and have been designed to resist class 4 type of load in accordance with EN 12811-1 regulation.

Types of Joints Between Vertical Posts & Horizontal Bearers

The joints between horizontal bars and diagonal bars with vertical bars are made with tilting pins that match with the bores present on the bars. This method provides a highly strong level of structural rigidity.



Component List

In the following, components shown are used to build European H shape frame security scaffolding. Some of the components used are common and similar to other systems of scaffolding.

All our products have been manufactured in accordance to EU regulations, and tested to European standards.

All our products have been produced using S 235 JR steel and have been have been processed by hot-dip galvanization.



Leveling Jack with Base Plate

Leveling jacks are used to set vertical posts at the same height. Their base plate has a thickness of 5 mm and its dimensions are 150 mm x 150 mm with square shape, bars are made with a tube of $\text{Ø}38 \times 4$ mm and $\text{Ø}48 \times 4$ mm. The tube, as long as 500mm, can be adjusted to 350mm, and the tubes of 750 mm can be adjusted to 560mm. Total length of the elements can vary. These measurements are: 0.50 m, 0.75 m, 1.00 m, 1.20 m.

LEVELLING JACK DIMENSIONS (LJ-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
LJ-12A	$\text{Ø}38 \times 1200$	3,9 ft	5,4	11,88
LJ-10A	$\text{Ø}38 \times 1000$	3,3 ft	5,00	11,00
LJ-07A	$\text{Ø}38 \times 750$	2,3 ft	4,00	8,80
LJ-05A	$\text{Ø}38 \times 500$	1,6 ft	3,00	6,60
LJ-12B	$\text{Ø}48 \times 1200$	3,9 ft	5,4	11,88
LJ-10B	$\text{Ø}48 \times 1000$	3,3 ft	5,00	11,00
LJ-07B	$\text{Ø}48 \times 750$	2,3 ft	4,00	8,80
LJ-05B	$\text{Ø}48 \times 500$	1,6 ft	3,00	6,60

$\text{Ø}38$ mm for facade scaffoldings and $\text{Ø}48$ mm for under formwork scaffoldings.

Initial Support

Initial supports are placed on leveling jacks. Thanks to pins at their sides, ease of set up and levelling makes it convenient for adjustment.

It is manufactured from tubes of $\text{Ø}48,3 \times 3$ mm, connected to a profile of $40 \times 20 \times 2$ mm.

All mentioned sizes are referred to the total length of the bars. 80 cm is the total length.

INITIAL SUPPORT DIMENSIONS (IS-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
IS-07	700	2,3 ft	2,70	5,94

H-Shape Frame

H-Shape frames for the European scaffolding system are the system's main supportive element. They are made up of tubes with sections of $\text{Ø}48,3 \times 3$ mm.

At the lower part of the frame connecting the vertical posts, a profile of $40 \times 20 \times 2$ mm, and a profile of $40 \times 50 \times 2$ mm at the upper part are used. Frames are 2000 mm high, and the width measured from the center of each tube to the other is 700 mm.

H-SHAPE FRAME DIMENSIONS (HSF-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
HSF-07	700×2000	2,3 ft x 6,6 ft	18,50	40,70





Half H-Shape Frame

Are half length H-Shaped Frames at the lower part, a 40x20x2 mm profile, and at the upper a 40x50x2 profile are used. Frames are 1000 mm high, and width from center to center 700 mm.

HALF H-SHAPE FRAME DIMENSIONS (2HSF-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
2HSF-07	700 x 1000	2,3 ft x 3,3 ft	12,50	27,50



H-Shape Guard Rail

H-Shape Guard Rails are used at the highest point of the scaffolding under building cornice's. They are made of steel tubes with section of Ø48,3 x 3 mm.

The lower part of the bar is made up by a 40x20x2mm profile, and upper by 40x50x2mm profile.

H-SHAPE GUARD RAIL DIMENSIONS (HGR-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
HGR-20	700 x 2000	6,6 ft	17,60	38,72

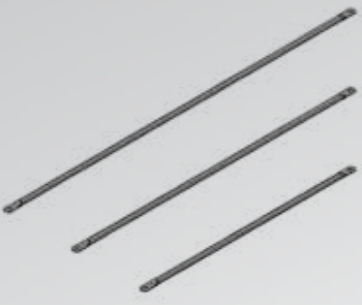


L-Shape Guard Rail

L-Shape Guard Rails are used at the highest point of the scaffolding under building cornices. They are made of steel tubes with section of Ø48,3 x 3 mm.

The lower part of the bar is made by a 40x20x2mm profile.

L-SHAPE GUARD RAIL DIMENSIONS (LGR-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
LGR-20	700 x 2000	6,6 ft	12,20	26,84



Ledger

Ledgers are used in the scaffolding system connecting two frames. By this way they can also act as guardrails. They are made from steel tubes of section $\varnothing 34 \times 2,5 \text{ mm}$. Total dimensions of the bars are 2.55 m, 2.05 m, 1.55 m. The most common one used is 2.55 m.

LEDGER DIMENSIONS (LD-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
LD-255	2550	8,4 ft	4,20	9,24
LD-205	2050	6,7 ft	3,40	7,48
LD-155	1550	5,1 ft	2,60	5,72



Diagonal Brace

Diagonal braces are opposing resistance bars of forces from horizontal plans in the scaffolding system. They also ease the setting up and assembly. They are made from steel tubes of $\varnothing 38 \times 2,5 \text{ mm}$.

They are mainly manufactured in three different lengths that are: 3.25 m, 2.50 m and 2.10 m. 3.25 m being the most commonly requested.

DIAGONAL BRACE DIMENSIONS (DB-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
DB-325	3250	10,7 ft	8,30	18,26
DB-250	2500	8,2 ft	6,50	14,30
DB-210	2100	6,9 ft	5,90	12,98



Side Guard-Rail

Are used at the end points of the scaffolding.

They are made from steel tubes with section $\varnothing 34 \times 2 \text{ mm}$.

Total length in horizontal projection is 800 mm, height 430 mm.

SIDE GUARD RAIL DIMENSIONS (SGR-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
SGR-07	700	2,3 ft	4,00	8,80

Access Deck with Ladder

Access decks with ladders are used by workers to access other levels of the scaffolding system, and to also discharge materials. They are produced from rectangular steel profiles of 40x60x2mm. The trapdoor direction can be changed upon request. Their sizes are variable. The standard width is 60 cm, whilst their length can be 2.00 m, 2.50m, 3.00m, 2.50m (being the most commonly produced and used).

ACCESS DECK WITH LADDER DIMENSIONS (ADL-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
AD-30	600 x 3000	2 ft x 9,8 ft	41,00	90,20
AD-25	600 x 2500	2 ft x 8,2 ft	36,00	79,20
AD-20	600 x 2000	2 ft x 6,5 ft	22,00	48,40

Step Stair

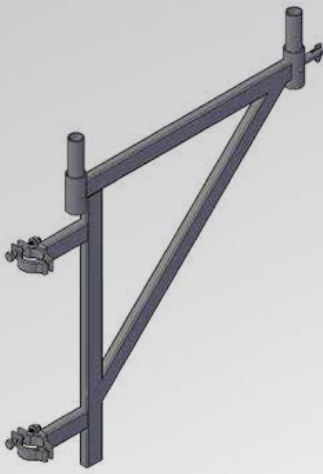
Step stairs can be used by workers to access to another level within the scaffolding itself and to also discharge materials. In the rosette modular scaffolding system, it has to be used next to a steel deck in order to access other levels. Minimum use for the stairs must be equal to three steel decks. It is able to cover dimensions between 3.00 m, 2.50 m with a maximum height of 2 meters.

STEP STAIR DIMENSIONS (SS-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
SS-30	h2000 x 3000	h6,6 ft x 9,8 ft	41,00	90,20
SS-25	h2000 x 2500	h6,6 ft x 8,2 ft	35,00	77,00

Steel Deck

Steel decks are used to assure the workers to walk inside the scaffolding. They're manufactured by profiled steel sheet of 320 mm width and mainly thickness of 1,5 mm with a special self-made design, and is anti-slip. They can be manufactured in the following lengths 0.70m, 1.10m, 1.50m, 2.00m, 2.50m and 3.00m, 2.50 m (being the most common size). All these types of decks can also be manufactured in different thicknesses as 1.5 mm, 1.35 mm, 1.25 mm by special request.

STEEL DECK DIMENSIONS (SD-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
SD-30	320 x 3000	1 ft x 9,8 ft	21,00	46,20
SD-25	320 x 2500	1 ft x 8,2 ft	17,00	37,40
SD-20	320 x 2000	1 ft x 6,5 ft	14,00	30,80
SD-15	320 x 1500	1 ft x 4,9 ft	11,00	24,20
SD-11	320 x 1100	1 ft x 3,3 ft	7,00	15,40
SD-07	320 x 700	1 ft x 2,3 ft	5,00	11,00



Board Bracket

Board brackets are used to create an additional working place in the spaces under cornices of buildings. They are manufactured from steel tubes with a section of $\varnothing 48$ mm diameter and a thickness of 3mm.

Their width can be 0.70m, 1.10m, 1.50m in order to set different types of space needed, and can be manufactured upon customers' request.

BOARD BRACKET DIMENSIONS (BB-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
BB-15	1500	4,9 ft	12,30	27,06
BB-11	1100	3,3 ft	9,50	20,90
BB-07	700	2,3 ft	6,20	13,64



Toe Board

Is a panel located at foot height that is used to avoid materials and tools to fall off from decks. They are manufactured from steel plates with 1,50 mm thickness.

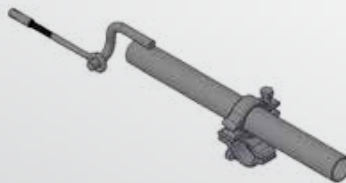
They can be manufactured as the same lengths as steel decks that 0.70m, 1.10m, 1.50m, 2.00m, 2.50m and 3.00 m, 2.50 m (being the most common size).

TOE BOARD DIMENSIONS (TB-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
TB-30	3000	9,8 ft	7,20	15,84
TB-25	2500	8,2 ft	6,00	13,20
TB-20	2000	6,6 ft	4,80	10,56
TB-15	1500	4,9 ft	3,60	7,92
TB-11	1100	3,3 ft	2,60	5,72
TB-07	700	2,3 ft	2,00	4,40

Wall Mount Bracket

This element is used to anchor the scaffolding system to the walls of buildings. They are manufactured from steel tubes with section of $\varnothing 48,3 \times 3,2$ mm with a clamp at its end.

To be able to make the connection possible, their bolts have to be screwed into the wall. The distance between the scaffolding and the wall can be adjusted by the clamp and the tube, that has a length of 50 cm.



WALL MOUNT BRACKET DIMENSIONS (WMB-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
WMB-10	1000	3,3 ft	3,85	8,47
WMB-08	800	2,6 ft	3,10	6,82
WMB-06	600	2 ft	2,45	5,39
WMB-04	400	1,3 ft	1,70	3,74

Wall Mount Pipe Clamp

Used to anchor the scaffolding system to the walls of buildings. They are manufactured from steel threaded rods with a diameter of 12mm and at their end is a bolt that helps to increase the anchorage of the scaffolding to the wall.

It allows a range of adjustment to 1.00 m from 0.50 m thanks to its threaded rod. The most common distance of use is 50 cm.



WALL MOUNT PIPE CLAMP DIMENSIONS (WMP-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
WMP-10	1000	3,3 ft	3,00	6,60
WMP-07	700	2,3 ft	2,50	5,50
WMP-05	500	1,6 ft	2,00	4,40

Under Formwork H-Shape Frame

This frames' dimensions are 2.00 m in height and 1.50 m in width. Under Formwork H-Shape Frames are the main structural elements of any under formwork scaffolding system.

Vertical posts are made by steel tubes with a diameter of 60 mm and thickness of 3 mm, horizontal tubes have a diameter of Ø48,3 mm and 3 mm of thickness.

These frames have 4 lynch pins to connect the diagonal braces.



UNDER FORM WORK H-SHAPE FRAME DIMENSIONS (UFWH-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
UFWH-18	1500 x 1800	4,9 ft x 5,9 ft	26,6	58,52
UFWH-15	1500 x 1500	4,9 ft x 4,9 ft	23,7	52,14
UFWH-11	1500 x 1100	4,9 ft x 3,6 ft	18,85	41,47

Under Form Work Diagonal Brace

Diagonal braces are opposing resistance to force coming from horizontal plans in the scaffolding system. They are made from steel tubes of Ø42x2,5mm.

Total length is 2180 mm.



UNDER FORM WORK DIAGONAL BRACE DIMENSIONS (UFWD-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
UFWD-18	1500 x 1800	4,9 ft x 5,9 ft	6,5	14,30
UFWD-15	1500 x 1500	4,9 ft x 4,9 ft	5,85	12,87
UFWD-11	1500 x 1100	4,9 ft x 3,6 ft	5,20	11,44



Head Spindle "U"

Are upper adjustment bars used to set the surfaces above them for the same height. They are used normally to support the formworks used to make slabs.

The U is manufactured with a plate of thickness 5 mm and width of 100 mm, its base is 125 mm and wings 40 mm.

The bar is made with tube of $\varnothing 48 \times 4$ mm. The length of the whole piece are standards of 0.50 m, 0.75 m, 1.00 m.

HEAD SPINDLE "U" DIMENSIONS (HS-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
HSU-10B	$\varnothing 48 \times 1000$	3,3 ft	5,00	11,00
HSU-07B	$\varnothing 48 \times 750$	2,3 ft	4,00	8,80
HSU-05B	$\varnothing 48 \times 500$	1,6 ft	3,00	6,60



Head Spindle "T"

Are upper adjustment bars used to set the surfaces above them for the same height. They are used normally to support the formworks used to make slabs. The upper T is manufactured by 5 mm steel plate and its width 250 mm, where it's base is 125 mm and wings are 40 mm.

The bar is made with tube of $\varnothing 48 \times 4$ mm. The length of the whole piece are standards of 0.50 m, 0.75 m, 1.00 m.

HEAD SPINDLE "T" DIMENSIONS (HS-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
HST-10B	$\varnothing 48 \times 1000$	3,3 ft	5,00	11,00
HST-07B	$\varnothing 48 \times 750$	2,3 ft	4,00	8,80
HST-05B	$\varnothing 48 \times 500$	1,6 ft	3,00	6,60



Four-Way Head Spindle

Are upper adjustment bars used to set the surfaces above them at the same height. They are used normally to support the formworks used to make slabs. The base plate is manufactured with a plate 5 mm thick, 260 mm width and 175 mm length. L shaped profiles that are welded at the corners are 190 mm height, and the L is formed by wings 40 mm long and 4 mm thickness.

The bar is made with tube of $\varnothing 48 \times 4$ mm. The length of the whole piece are standards of 0.50 m, 0.75 m, 1.00 m.

HEAD SPINDLE "Four way" DIMENSIONS (HS-001)				
PART #	METRIC (mm)	IMPERIAL	WEIGHT	
			KG	LB
HS4-10B	$\varnothing 48 \times 1000$	3,3 ft	5,00	11,00
HS4-07B	$\varnothing 48 \times 750$	2,3 ft	4,00	8,80
HS4-05B	$\varnothing 48 \times 500$	1,6 ft	3,00	6,60