

Product Catalogue



Art of Formwork

EUROPEAN TECHNOLOGY -
REDEFINED IN INDIA

SIMPLICITY
SPEED
SATISFACTION



SEWVAC
Form Work Division

CONTENTS

Sewvac Philosophy	5
Quality & Technology	7
Formwork Solution with COM PANE System	9
COM PANE Panels	11
COM PANE System Components	14
COM PANE Accessories	15
Pour Rate Graph	19
COM PANE Formworks: Field of Application	20
COM PANE System: Technical Specification	22
COM PANE : Safe & Quick Transportation	27
COM PANE: Element Assembly	28
COM PANE: Corner Formation	29
COM PANE: Multiple Applications	32
COM PANE: Circular Formwork	33
COM PANE: Single Sided Formwork	37
COM PANE Formwork : Walls	39
COM PANE Formwork : Lift Shafts	40
COM PANE Formwork : Retaining Walls	41
Walkway, Climbing Scaffold Brackets & Platforms	46
KWIK COL System	47
Pi (π) Radial Formwork	51
ALUSTRONG Formwork: for Heavy Loads	62
Formwork for Highways	69
Special Formwork	72
Application Pictures for Reference	73
Mass Housing Projects	83



Technical team designing Infrastructure Formwork contract under manufacturing license from Interfama G.m.b.H Germany



Philosophy

In 1984 Franz Ohrwalder founded the company Interfama based on the principles of efficiency, economy and safety in large-scale formwork applications.

SEWVAC has taken up this philosophy in India under manufacturing license from Interfama Formwork System, thus making SEWVAC the ideal partner for building projects of any size.

CALL US:
WHEN DOWNTIME THREATENS TO CONVERT YOUR
SQUARE METERS TO TRICKLES.



INNOVATIVE FORMWORK SYSTEMS

MANUFACTURING AND ASSEMBLY SHOP FLOOR



Quality and Technology

SEWVAC commenced production in December 2009 under the manufacturing license agreement with Interfama G.m.b.H who have over 25 years of experience in the production of Formwork and supporting systems, Interfama uses modern production lines and innovative technology to guarantee a high standard of quality.

Production

The production of the elements which make up the systems is programmed directly onto the lines through the robotized system. SEWVAC produces about 500 square metres of formwork every day.

Logistics

Product distribution follows a logistical system which is based on the delivery of goods directly to the site and stock upkeep at our dealerships as required in specific cases.

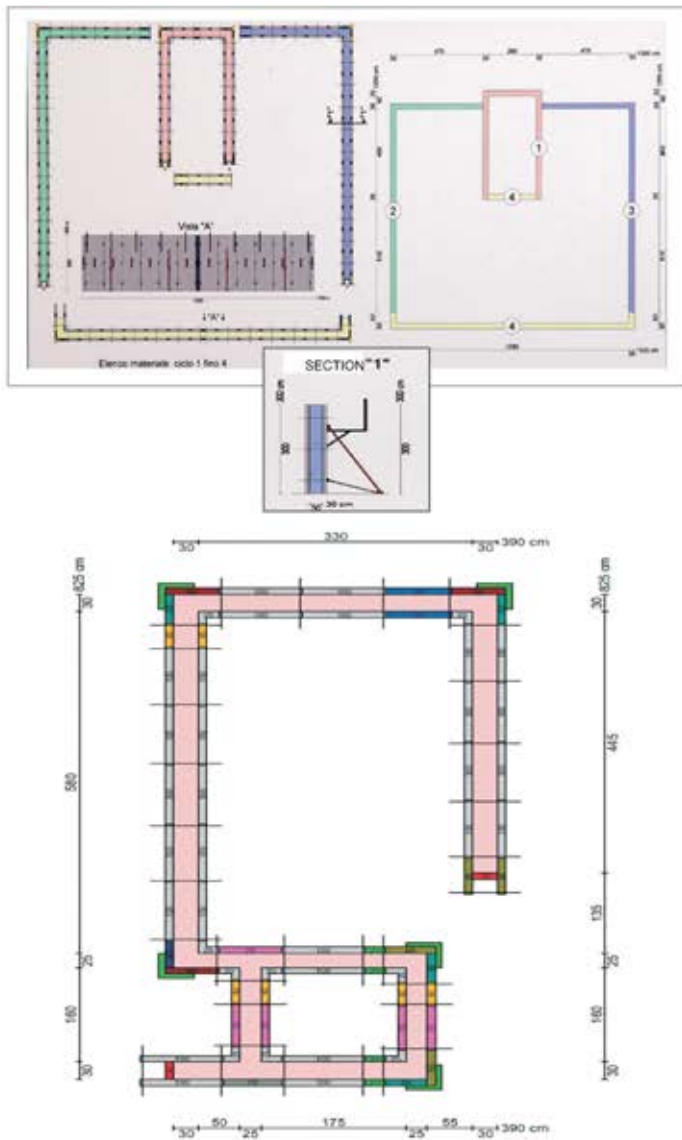
Satisfaction

The philosophy of SEWVAC is, above all, to meet the needs of our clients. To this end, we offer technical consultancy, financial, and on-site technical assistance.



QUALITY AND TECHNOLOGY

CONVERTING YOUR DREAMS INTO REALITY



ELEVATION SECTION



FORMWORK SOLUTIONS WITH COM PANE SYSTEM

The **COM PANE** system allows a number of geometric configurations to be assembled. This is of great importance as it makes it possible to optimize working procedures and tackle safety issues in the best possible manner.

SEWVAC also offers customized design and builds formwork according to the needs of the client.

Value Added Services

SEWVAC , together with Interfama, has over 25 years of experience in the production of formwork and offer the following:

- Technical and financial consultancy services
- Technical assistance during the construction process.

Formwork Solution

Our technical office will provide you with all the answers with regard to formwork problems , using the **COM PANE** system.

PLANNING THE FORMWORK SOLUTION

Technical Team viewing Composite Panel after many uses

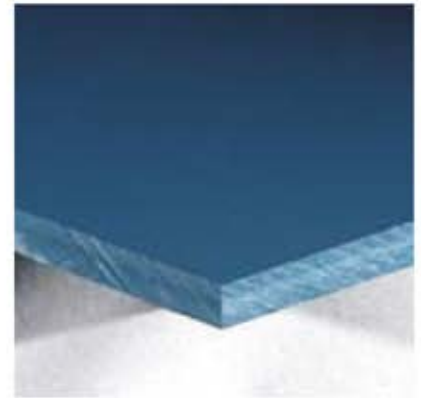
EXTENSIVE DESIGN POSSIBILITIES



Innovative Formwork Systems

COM PANE : ALUMINUM / STEEL COMPOSITE PANELS

Formwork for Vertical and Horizontal Concreting

COM PANE : Over 250 uses**The Unique Aspects of The COM PANE Profile:**

It is versatile to use and apply.

The Innovative Efficiency of the profile makes it an ideal choice for all purposes.

All Materials are completely recyclable with an optional buy back arrangement.

Do You Need Plywood?

No you don't need plywood as the COM PANE System uses only composite panels.



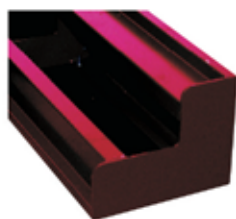
COM PANE SYSTEM: PANELS

ITEM CODE	DESCRIPTION	Kgs
SSCPM 3240	ELEMENT COM PANEL STEEL 300X240CM	245
SSCPM 3200	ELEMENT COM PANEL STEEL 300X200CM	215
SSCPM3100	ELEMENT COM PANEL STEEL 300X100CM	102
SSCPM3100F	ELEMENT COM PANEL STEEL 300X100CM MULTI	102
SSCPM 3075F	ELEMENT COM PANEL STEEL 300X75 CM MULTI	72
SSCPM 3075	ELEMENT COM PANEL STEEL 300X75 CM	72
SSCPM 3060	ELEMENT COM PANEL STEEL 300X60 CM	62
SSCPM 3050	ELEMENT COM PANEL STEEL 300X50CM	
SSCPM 3040	ELEMENT COM PANEL STEEL 300X40CM	46
SSCPM 3030	ELEMENT COM PANEL STEEL 300X30CM	
SSCPM 3023	ELEMENT COM PANEL STEEL 300X23CM	35
SSCPM 3020	ELEMENT COM PANEL STEEL 300X20CM	
SSCPM27240	ELEMENT COM PANEL STEEL 270 X 240 CM	258
SSCPM27200	ELEMENT COM PANEL STEEL 270 X200	215
SSCPM27100F	ELEMENT COM PANEL STEEL 270 X 100 MULTI	107.5
SSCPM27100	ELEMENT COM PANEL STEEL 270 X100	107.5
SSCPM2790	ELEMENT COM PANEL STEEL 270 X90	96.8
SSCPM2775F	ELEMENT COM PANEL STEEL 270 X 75 MULTI	80.6
SSCPM2775	ELEMENT COM PANEL STEEL 270 X 75	80.6
SSCPM2760	ELEMENT COM PANEL STEEL 270 X60	64.5
SSCPM2750	ELEMENT COM PANEL STEEL 270 X50	53.8
SSCPM2740	ELEMENT COM PANEL STEEL 270 X 40	43
SSCPM2730	ELEMENT COM PANEL STEEL 270 X 30	32
SSCPM2723	ELEMENT COM PANEL STEEL 270 X 23	25
SSCPM2720	ELEMENT COM PANEL STEEL 270 X20	22
SSCPM 15100	ELEMENT COM PANEL STEEL 150X100CM MULTI	52
SSCPM15100F	ELEMENT COM PANEL STEEL 150X100CM	52
SSCPM1575F	ELEMENT COM PANEL STEEL 150X75CM MULTI	38
SSCPM 1575	ELEMENT COM PANEL STEEL 150X75CM	38
SSCPM 1560	ELEMENT COM PANEL STEEL 150X60 CM	32
SSCPM 1550	ELEMENT COM PANEL STEEL 150X50CM	28
SSCPM 1540	ELEMENT COM PANEL STEEL 150X40 CM	24
SSCPM1530	ELEMENT COM PANEL STEEL 150X30CM	20
SSCPM1523	ELEMENT COM PANEL STEEL 150X23CM	18
SSCPM1520	ELEMENTCOM PANEL STEEL 150X20CM	16

COM PANE SYSTEM: PANELS

ITEM CODE	DESCRIPTION	Kgs
SACPMA 3100	ELEMENT COM PANEL ALU 300X100CM	62
SACPMA 3100F	ELEMENT COM PANEL ALU 300X100CM MULTI	62
SACPMA 3075F	ELEMENT COM PANEL ALU 300X75CM MULTI	48
SACPMA 3075	ELEMENT COM PANEL ALU 300X75CM	48
SACPMA 3060	ELEMENT COM PANEL ALU 300X60CM	42
SACPMA 3050	ELEMENT COM PANEL ALU 300X50 CM	37
SACPMA 3040	ELEMENT COM PANEL ALU 300X40CM	32
SACPMA 3030	ELEMENT COM PANEL ALU 300X30 CM	27
SACPMA 3023	ELEMENT COM PANEL ALU 300X23 CM	25
SACPMA 3020	ELEMENT COM PANEL ALU 300X20 CM	22
SACPMA 27100F	ELEMENT COM PANEL ALU 270X100CM MULTI	57
SACPMA27100	ELEMENT COM PANEL ALU 270X100CM	57
SACPMA 2790	ELEMENT COM PANEL ALU 270X90CM	53
SACPMA2775 F	ELEMENT COM PANEL ALU 270X75 MULTI	46
SACPMA 2775	ELEMENT COM PANEL ALU 270X75CM	46
SACPMA 2760	ELEMENT COM PANEL ALU 270X60 CM	40
SACPMA 2750	ELEMENT COM PANEL ALU 270X50CM	35
SACPMA 2740	ELEMENT COM PANEL ALU 270X40CM	30
SACPMA 2730	ELEMENT COM PANEL ALU 270X30CM	26
SACPMA 2723	ELEMENT COM PANEL ALU 270X23CM	13
SACPMA 2720	ELEMENT COM PANEL ALU 270X20CM	21
SACPMA 15100	ELEMENT COM PANEL ALU 150X100CM	33
SACPMA15100F	ELEMENT COM PANEL ALU 150X100 CM MULTI	33
SACPMA 1575F	ELEMENT COM PANEL ALU 150X75CM MULTI	25
SACPMA1575	ELEMENT COM PANEL ALU 150X75 CM	25
SACPMA 1560	ELEMENT COM PANEL ALU 150X60CM	22
SACPMA 1550	ELEMENT COM PANEL ALU 150X50 CM	19
SACPMA 1545	ELEMENT COM PANEL ALU 150X45 CM	17.5
SACPMA 1540	ELEMENT COM PANEL ALU 150X40 CM	16
SACPMA 1530	ELEMENT COM PANEL ALU 150X30 CM	13
SACPMA 1523	ELEMENT COM PANEL ALU 150X23 CM	11.5
SACPMA 1520	ELEMENT COM PANEL ALU 150X20 CM	10
SACPMA1260	ELEMENT COM PANEL ALU 120 X60 CM	15.84
SACPMA1250	ELEMENT COM PANEL ALU 120 X50 CM	13.2
SACPMA1245	ELEMENT COM PANEL ALU 120 X45 CM	11.88
SACPMA1240	ELEMENT COM PANEL ALU 120 X40 CM	10.56
SACPMA1230	ELEMENT COM PANEL ALU 120 X30 CM	7.92

COM PANE SYSTEM: COMPONENTS

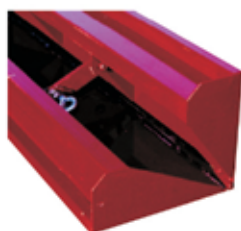


COM PANE Inner corner

Dimensions: 300 x 25 x 25 cm Item: SAIM 3025 Weight: 52,0 kg

Dimensions: 270 x 25 x 25 cm Item: SAIM 2725 Weight: 47,0 kg

Dimensions: 150 x 25 x 25 cm Item: SAIM 1525 Weight: 26,0 kg



COM PANE Hinged corner

Dimensions: 300 x 25 x 25 cm Item: SAIM 300 Weight: 76,0 kg

Dimensions: 270 x 25 x 25 cm Item: SAIM 270 Weight: 59,0 kg

Dimensions: 150 x 25 x 25 cm Item: SAIM 150 Weight: 39,0 kg



COM PANE Retractable corner

Dimensions: 300 x 25 x 25 cm Item: SADM 300 Weight: 108,0 kg

Dimensions: 270 x 25 x 25 cm Item: SADM 270 Weight: 97,0 kg

Dimensions: 150 x 25 x 25 cm Item: SADM 150 Weight: 57,0 kg

COM PANE Compensation piece

Dimensions: 300 x 5 cm Item: SCM 305 Weight: 16,0 kg

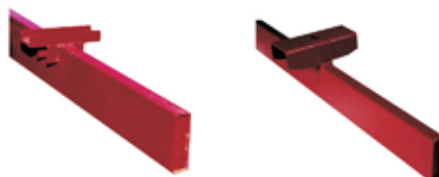
Dimensions: 270 x 5 cm Item: SCM 275 Weight: 14,4 kg

Dimensions: 150 x 5 cm Item: SCM 155 Weight: 9,2 kg

Dimensions: 300 x 3 cm Item: SCM 303 Weight: 15,0 kg

Dimensions: 270 x 3 cm Item: SCM 273 Weight: 13,5 kg

Dimensions: 150 x 3 cm Item: SCM 153 Weight: 9,0 kg



COM PANE Compensation plate with profile

Dimensions: 300 x 20 cm Item: SCL 3020 Weight: 31,0 kg

Dimensions: 270x 20 cm Item: SCL 2720 Weight: 28,0 kg

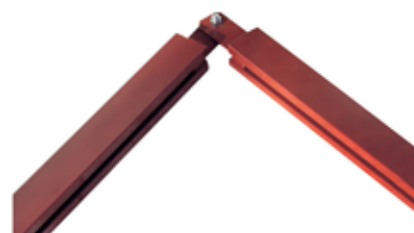
Dimensions: 150 x 20 cm Item: SCL 1520 Weight: 16,0 kg

COM PANE Compensation plate for hinged corners

Dimensions: 300 x 15 cm Item: SCLAI 300 Weight: 34,0 kg

Dimensions: 270 x 15 cm Item: SCLAI 270 Weight: 31,0 kg

Dimensions: 150 x 15 cm Item: SCLAI 150 Weight: 23,0 kg



COM PANE SYSTEM: ACCESSORIES**Panel Clamp**

item:SMP
weight:4,0kg

Stacking Clamp

item:SMAL
weight:7,5kg

Corner/Column clamp

item:SMPP
weight:2,6kg

Outer Corner Clamp

item:SMAE
weight:4,5kg

Adjustable Clamp

item:SMR
weight:5,7kg

**Adjustable Radius Clamp
for Circular Formwork**

item:SMRC2
weight:5,35kg

Wing-nut with Threaded Rod

item:SFA 15140G
weight:1,6kg

Crane Hook

item:SGM
weight:3,4kg
max.weight capacity:
800,0 kg

Anchor-rail Connector

item:SALF
weight:0,6kg

Galvanised tie-rods, SDW

Length	Item	Weight	Length	Item	Weight
35 cm	TA 1835	0,7 kg	150 cm	TA 18150	2,5 kg
85 cm	TA 1885	1,4 kg	175 cm	TA 18175	3,0 kg
100 cm	TA 18100	1,7 kg	200 cm	TA 18200	3,4 kg
120 cm	TA 18120	2,1 kg	600 cm	TA 18600	10,2 kg

COM PANE SYSTEM : ACCESSORIES

Cap-nut



Item: SDF 1850
Weight: 0,3 kg

Jolly COM PANE



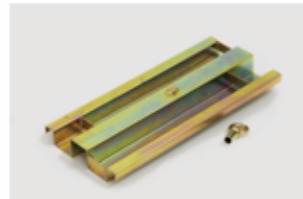
Item: SJM
Weight: 0,3 kg

Base clamp for plinths



Item: SMPM
Weight: 3,9 kg

Adaptor for service bracket



Item: SAMSM
Weight: 3,4 kg



Stacking bracket for shuttering board

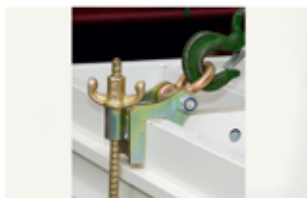
Item: SPSM 5027
Weight: 4,0 kg

Spanner for sheeting corner



Item: SSW 30
Weight: 1,3 kg

Transport kit



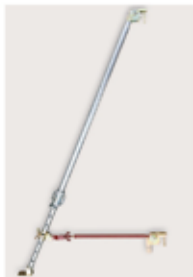
Item: SKIT
Weight: 11,4 kg
Max. weight capacity:
1.000,0 kg

Bore set complete with 50 brass bushes



Item: SBS
Weight: 2,5 kg

Adjustable prop max. 450 cm



Item: SPTM - Weight: 16,0 kg
Distance tube for prop Item: DPM, Weight: 5,0 kg
Adjustable prop 450/600 cm
Item: PTM 450/600 - Weight: 28,0 kg
Distance tube for prop Item: DPM 450/600,
Weight: 5,5 kg

COM PANE SYSTEM : ACCESSORIES**Climbing Bracket**

Item: SMRM
Weight: 30,0 kg

Handrail
Art.: PP100
Weight: 3,2 kg

Adjustable Climbing Clamp

Item: SMRS
Weight: 12,0 kg

Walkway Bracket

Item: SMSM
Weight: 13,0 kg

End-piece for Walkway Bracket

Item: SMSMC
Weight: 9,3 kg

Anchor

Item: Anchor for
Concrete
Weight: 0,3 kg

Waterstop

Item: SWST
Weight: 0,8 kg

Base Cap-nut

Item: SDP 1850
Weight: 0,3 kg

Base Cap-nut with Guidance Wedge

Item: SDFF
Weight: 0,5 kg

45° Cap-nut for Climb Platform

Item: SDF 18°/45°
Weight: 0,5 kg

Forming Oil Pump

Item: SPO
Weight: 3,0 kg

COM PANE SYSTEM : ACCESSORIES

PVC Plug



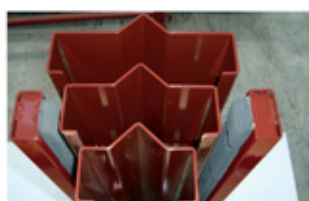
Item: SVS
Box: 2000 pz

Distance Sleeve with Plug



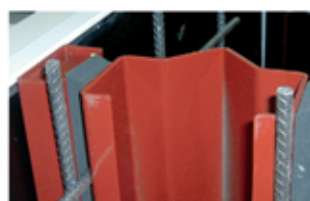
PVC 20 cm Box 50 pc.
PVC 25 cm Box 50 pc.
PVC 30 cm Box 50 pc.
PVC 35 cm Box 50 pc.
PVC 40 cm Box 50 pc.

Head-Closing set 300 x 20/25/30 cm



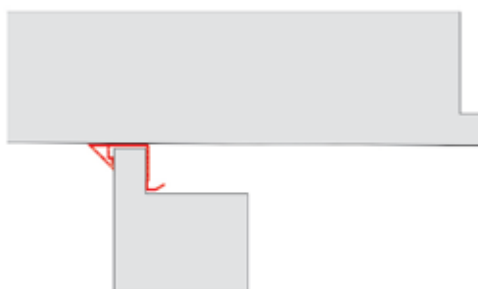
Item: SMMA 30 SET
Weight: 94,0 kg

Head-closing 300 cm x 20/25/30 cm



Item: SMMA 3020
SMMA 3025,
SMMA 3030
Weight: 40,8 kg,
43,8 kg, 46,8 kg

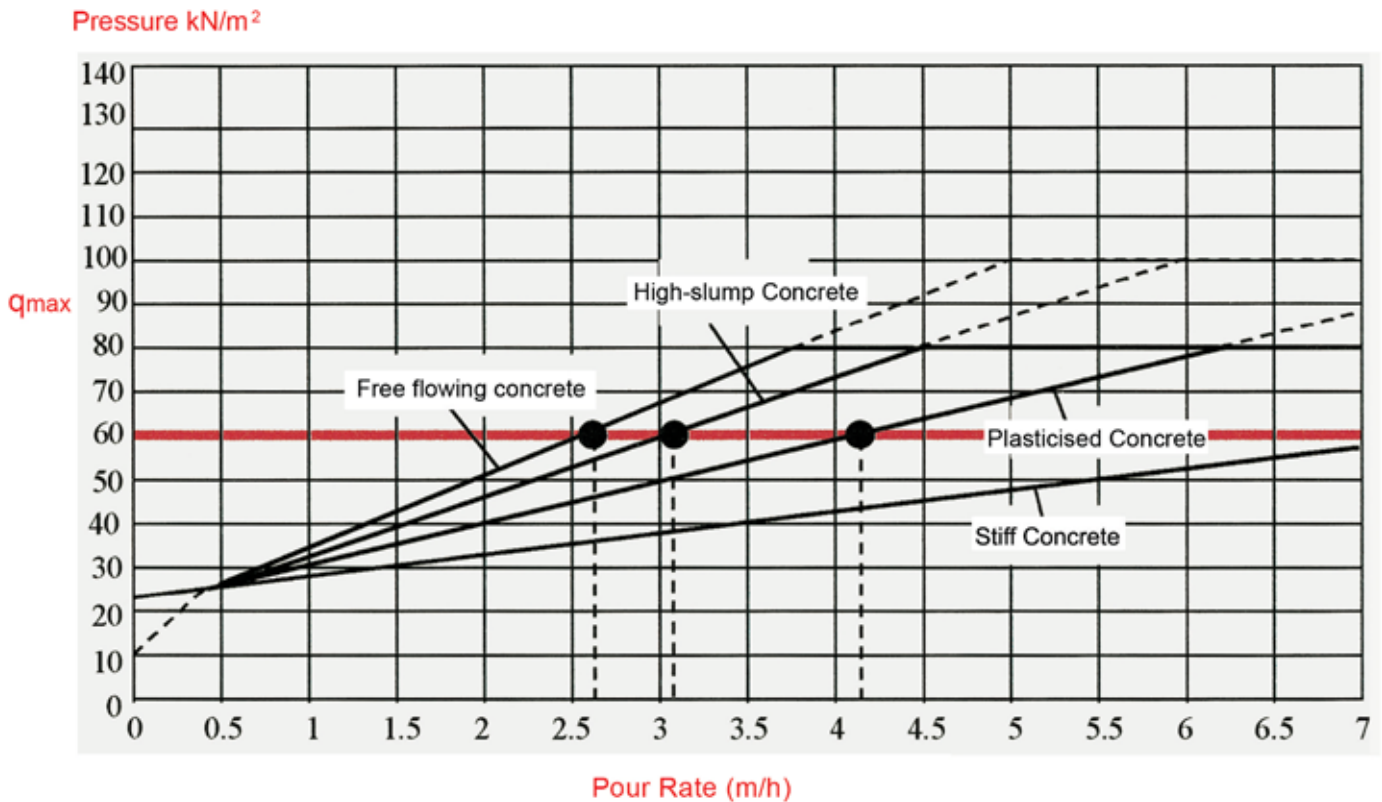
Plastic Three-edged Strip



Item: SDL
Pack of 50,
length 3 m each

POUR RATE GRAPH

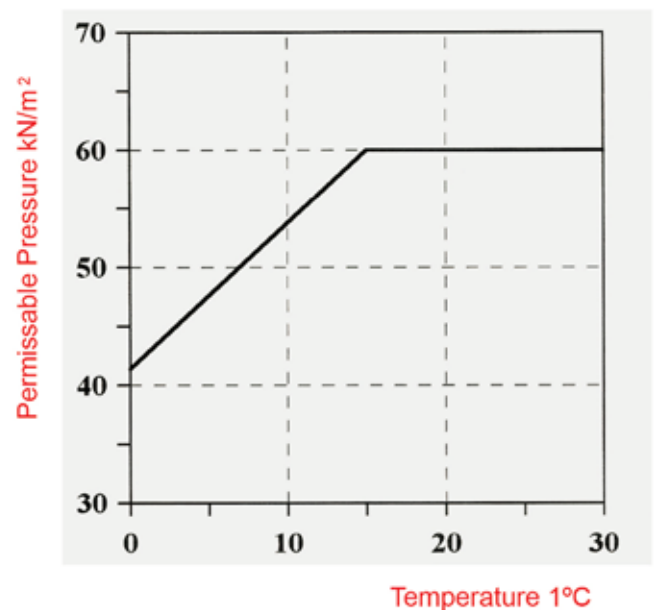
The concrete pouring rate can be determined from the following diagram. This prevents the concreting pressure of the various elements from exceeding. The table is based on scientific tests and technical evaluations carried out by the Polytechnic University of Milan.



Working pour-rate for varying consistencies of concrete for a permissible pressure of $60 \text{ kN} / \text{m}^2$. From the intersection of the curve relative to the consistency of concrete used, it is possible to determine the maximum pour rate for COM PANE panels in steel and aluminum. The values obtained are valid for any pouring height not exceeding 6 m.

With temperatures below 15° at the moment of pouring, an increased pressure of the liquid concrete of 3% per 1°C below 15°C must be considered.

The maximum pressure load of COM PANE panels in relation to temperature is shown in the above graphs.



COM PANE FORMWORKS FOR ALL FIELDS OF APPLICATION

COM PANE formworks can be used in many areas of construction. Thanks to its special curve profile and to the relative accessory, equipment, formwork can easily be erected for all kinds of structures.

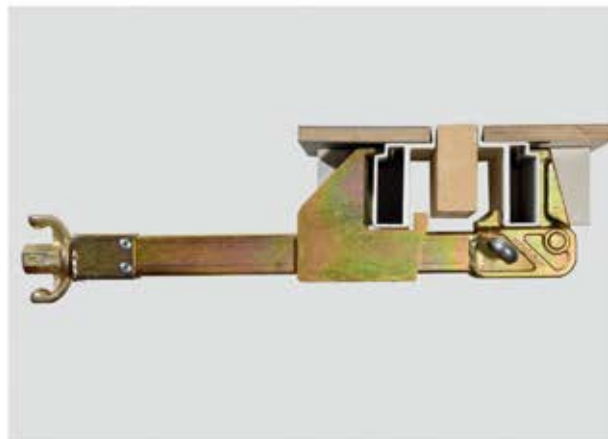


COM PANE COMPOSITE PANEL OR PLYWOOD**Panel clamp**

This clamp provides a horizontal join between adjacent formwork panels. It is also used for alignment purposes.

**Corner/ Column clamp**

This clamp joins two upright panels on an external corner.

**Adjustable lamp**

This clamp is used for joining two adjacent wall elements between which there is a compensating space appr. 20 cm.

**Wing nut**

Wing nut is used for tightening the tie-rods.

COM PANE SYSTEM: TECHNICAL SPECIFICATIONS

The frame of the **COM PANE** panels is made of structural steel or aluminum. The frame, after galvanisation, is powder-coated in order to obtain a smooth, easily cleaned surface.

Steel-framed panels

Corrosion protection using the following method:

Class C2 - coating in accordance with EN 39.

COM PANE steel Panels

300 x 100 cm

= **102,0 kg**

Maximum pressure

60 kN/m²

(see diagram pouring rate p.19)



Aluminum-framed panels

In the absence of lifting machinery or in demanding working conditions, **COM PANE** Alu can be manoeuvred by hand with full adherence to construction regulations.

COM PANE ALU Panels

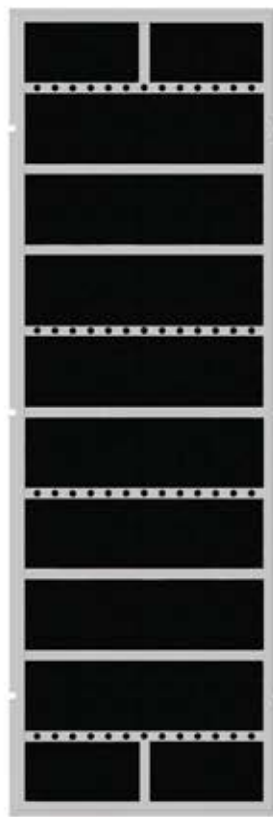
300 x 100 cm

= **65,0 kg**

Maximum pressure

60 kN/m²

(see diagram pouring rate p.19)



Example: Triangular support attached to formwork (see p 35).



U traverse allows accessories to be attached with anchor rail connector.



Certification Milan Polytechnic.

COM PANE: STANDARD PANELS AVAILABLE IN STEEL AND ALUMINUM



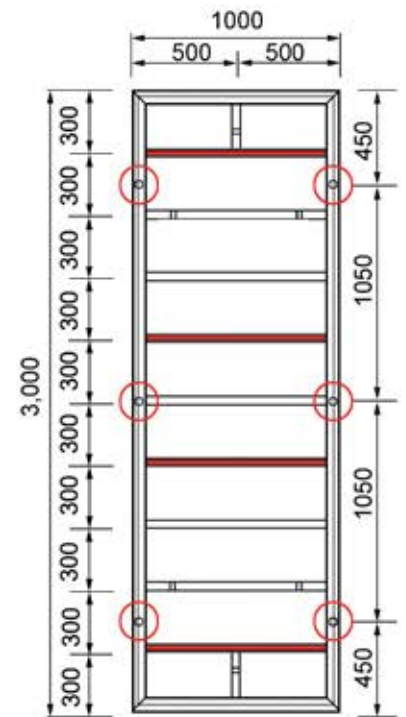
Panel
300 x 100 cm



Panel
300 x 75 cm



Panel
300 x 60 cm



 Position of boreholes on frame
300x100 cm



Panel
300 x 50 cm



Panel
300 x 40 cm



Panel
300 x 30 cm



Panel
300 x 20 cm



Inner corner 300 x 25 x 25 cm



Hinged corner 300 x 25 x 25 cm



Retractable corner 300 x 25
x 25 cm

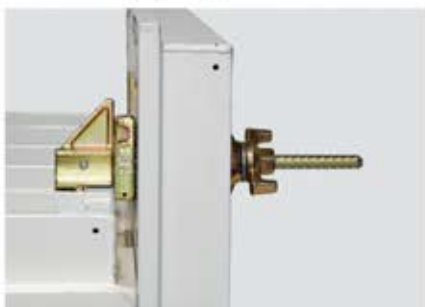
COM PANE SYSTEM: XL PANEL WITH LARGE WORKING AREA (ONLY IN STEEL)

COM PANE - XL panels enable fast, economical work with uniform results. Panels with fewer accessories can be combined with all **COM PANE** formwork in steel or aluminum. Only one (1) tie-rod is needed every 1.5 metre square.

Basic Accessories



Panel clamp (SMP)



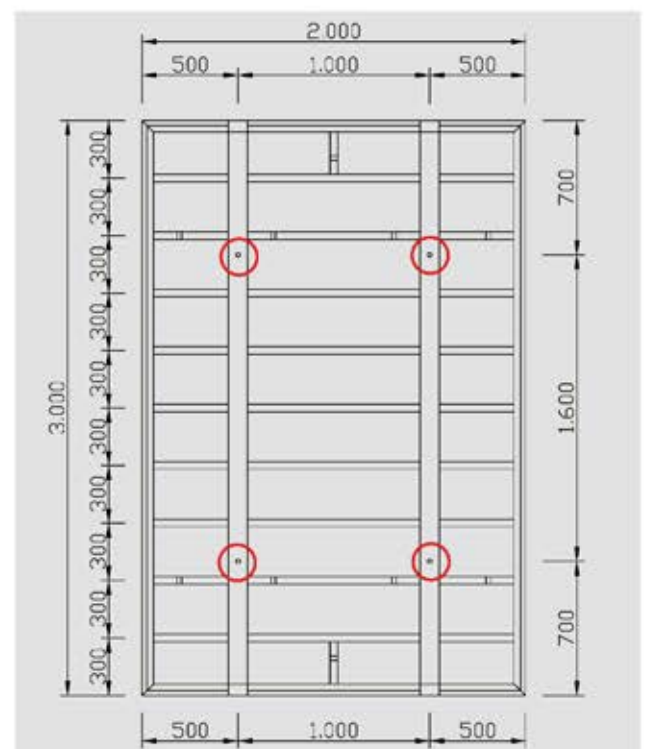
Corner/ Column clamp (SMPP)



Wing nut with threaded rod (SFA15140G)



Panel 300 x 200 cm



⊙ Position of boreholes on frame 300x200 cm

COM PANE: STANDARD PANELS, AVAILABLE IN STEEL AND ALUMINUM

The **COM PANE** multi-use panel resolves every formwork task easily and quickly.

A real multi-purpose formwork panel!

Every **COM PANE** panel has the holes to facilitate multi-features.

The multi use panel, with tie-holes at every 5 centimeters, is available in the following dimensions:

300 x 100 cm

300 x 75 cm

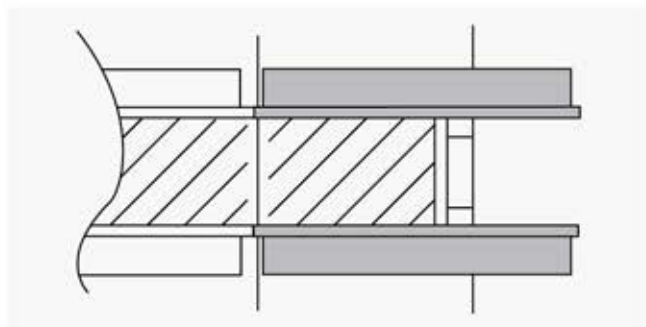
Available in Aluminum and Steel this multi use panel is ideal for vertical and horizontal formwork.

"IDEAL FOR THE WALLS AND DECK"

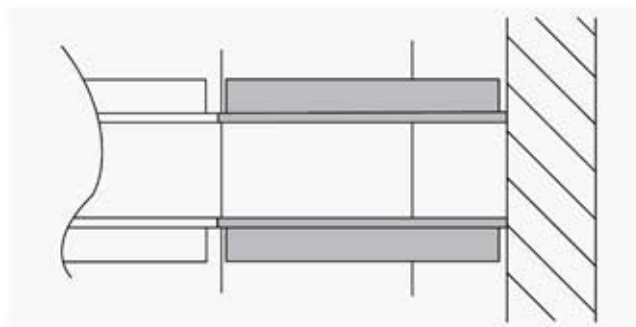


With the relative tie-hole kit you can drill the composite panel in the required points. The kit includes brass bushes to prevent damage to the holes.

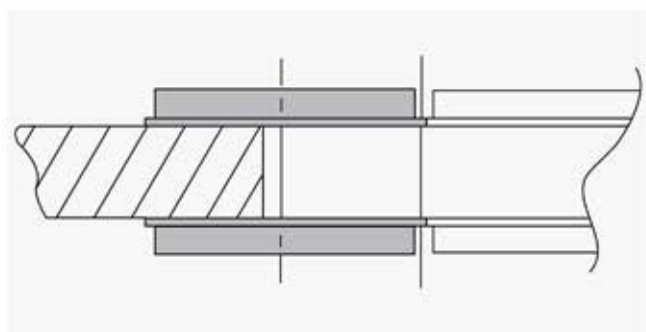
COM PANE: MULTI-USE PANELS



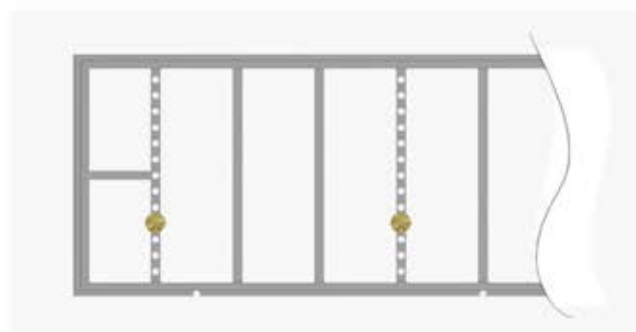
Stop-end forming with Multi-use panel



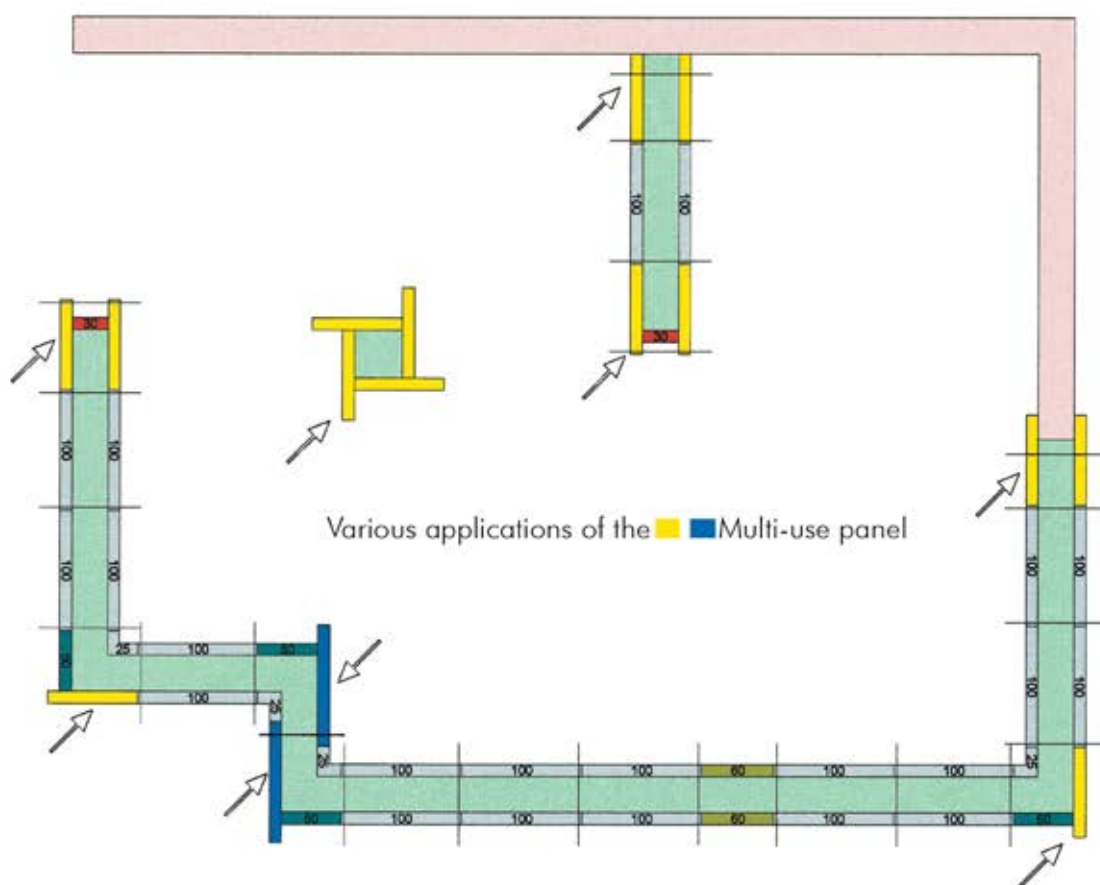
Connection to existing wall with Multi-use panel



Continuous forming with Multi-use panel

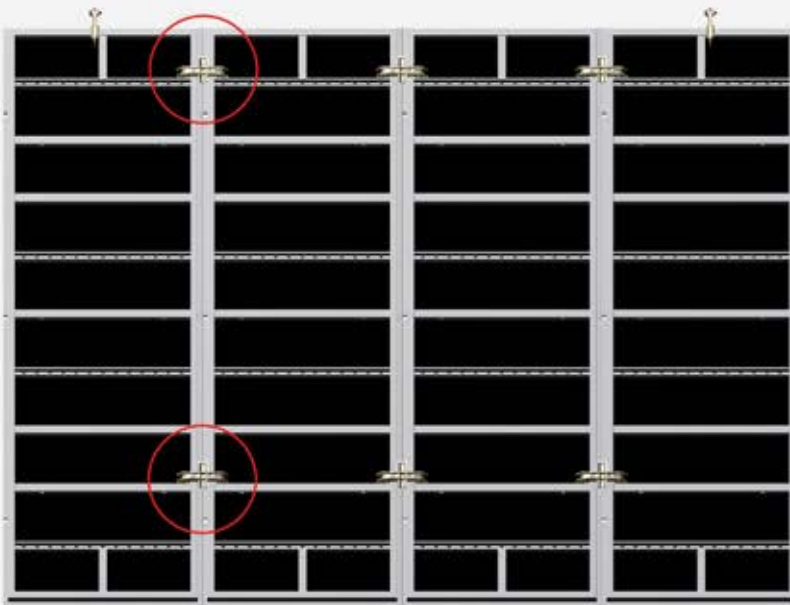


Horizontal formwork with Multi-use panel



COM PANE: SAFE AND QUICK TRANSPORTATION

The transportation kit allows for packaging of the panels and guarantees safety when loading and unloading. It also makes it easier for one person to join panels rather than two, normally needed for manoeuvring. The system allows for the moving of panel units of up to 30 metre square of framework.



Only two (2) panel clamps (SMP) are necessary for a perfect alignment of **COM PANE** panels.

Panel assembly

Sewvac recommendation: place the elements together on a flat base and, following panel assembly with the crane, move them to the location requiring formwork.

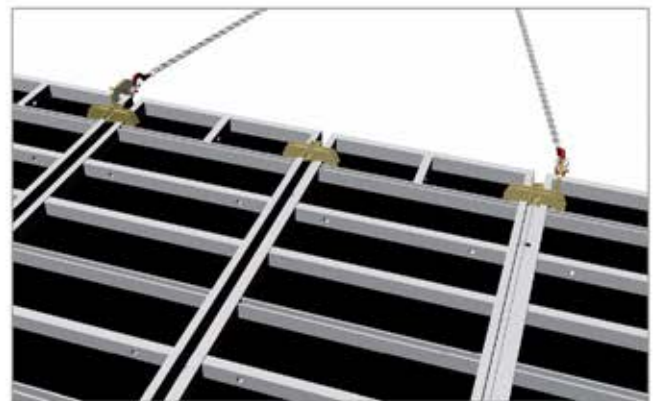
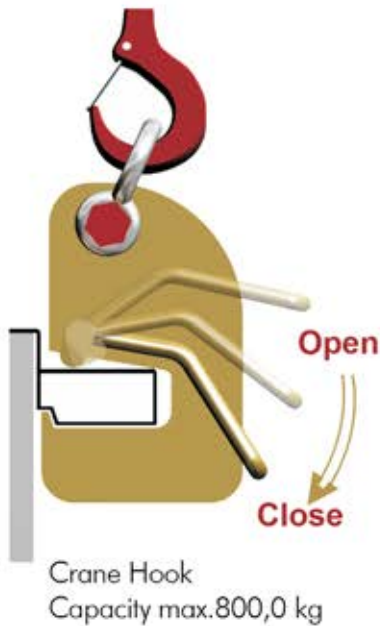


The **COM PANE** panel clamp guarantees perfect alignment of the elements.



COM PANE: ELEMENT ASSEMBLY

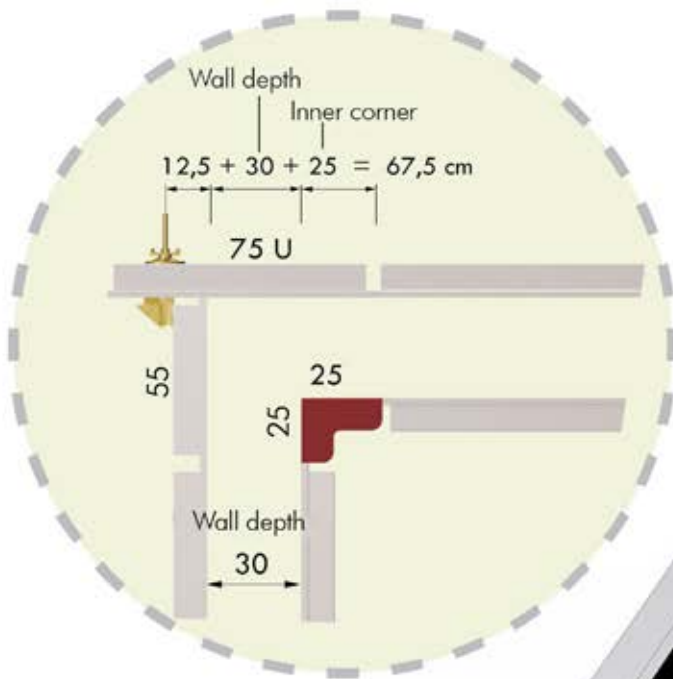
It is vital to follow the safety instructions where formwork elements are being moved using mechanical equipment such as a crane or telescopic arm. Further information can be found in the "COM PANE Working in Safety" manual.



- Start mounting at the corners. Only 1 support prop per 5 m of formwork is necessary to stabilize the formwork.
- When mounting the TIE-RODS, keep the bore holes free for the TIE-ROD.
- Insert the TIE-ROD Bars.
- Insert plastic spacer tube.
- Close the formwork and place the TIE-ROD in final position.
- Fit the walk way bracket fittings and safety accessories.
- Check final line and level
- Cast Concrete

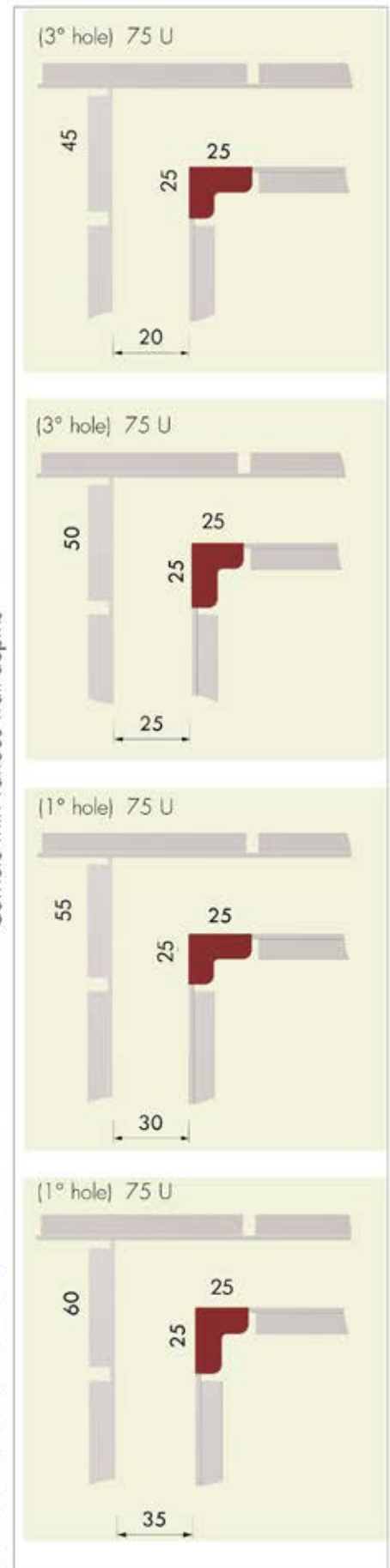
COM PANE: CORNER FORMATION AND THE VERSATILITY OF THE MULTI-USE PANEL

COM PANE internal corners are formed with inner corner 300 x 25 x 25 cm, and external corners with the multiuse panel 300 x 75 cm together with panel 300 x 40 or 300 x 50 cm (depending on depth of wall) with 4 corner/column clamps and 4 wing nuts.



Position of the correct anchor-hole for outer corner joint:
Inner corner + wall depth + 12.5 cm

Outer corner forming with corner/column clamps



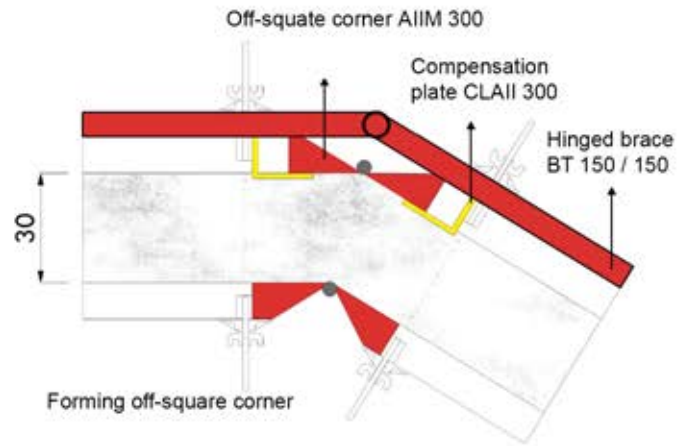
Corners with various wall depths

COM PANE: FORMATION OF OFF-SQUARE CORNERS

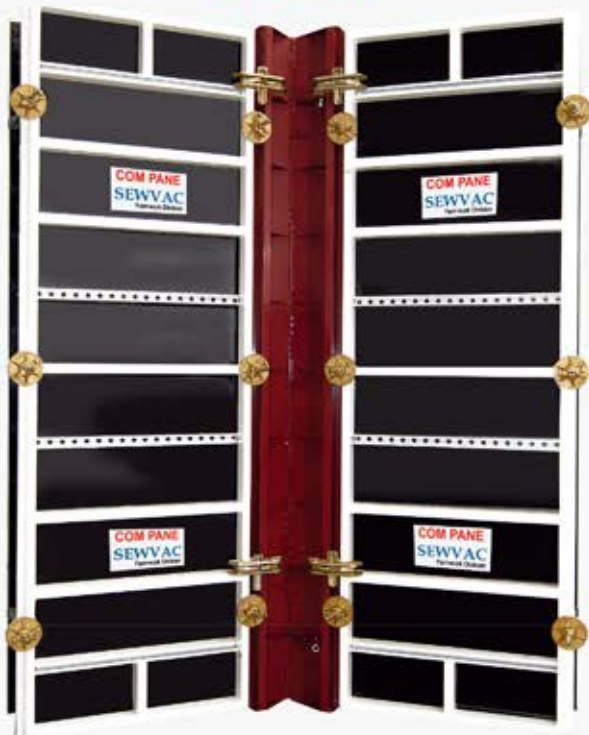
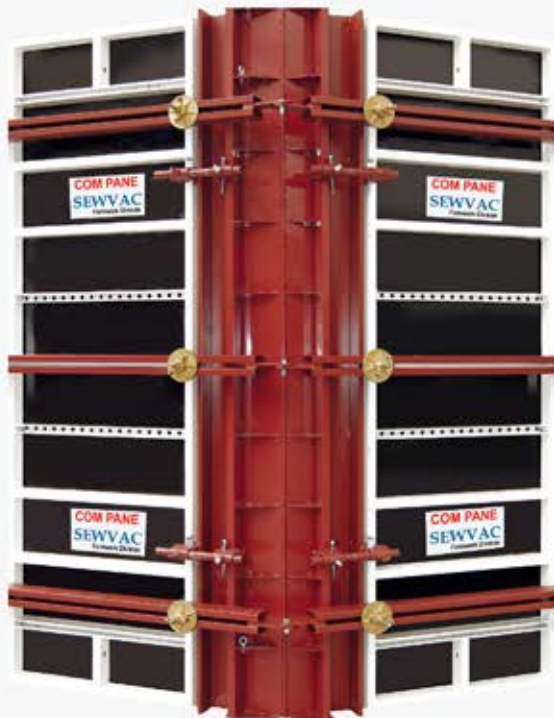
The special SEWVAC hinged corners can be used as outer or inner corners

For 1 complete corner you only need: 2 hinged corners SAIM 300 (300 x 25 x 25 cm), 2 compensation plates SCLAI 300 for hinged corners and 3 hinged braces BT 150/150 (150 + 150 cm).

The hinged corner can be fixed at 90° and thus forms a normal inner corner.



If the compensation plate CLAI 300 is not sufficient, use 1-2 additional 300x25/25 cm elements.



Hinged corner



Compensation plate



Hinged brace

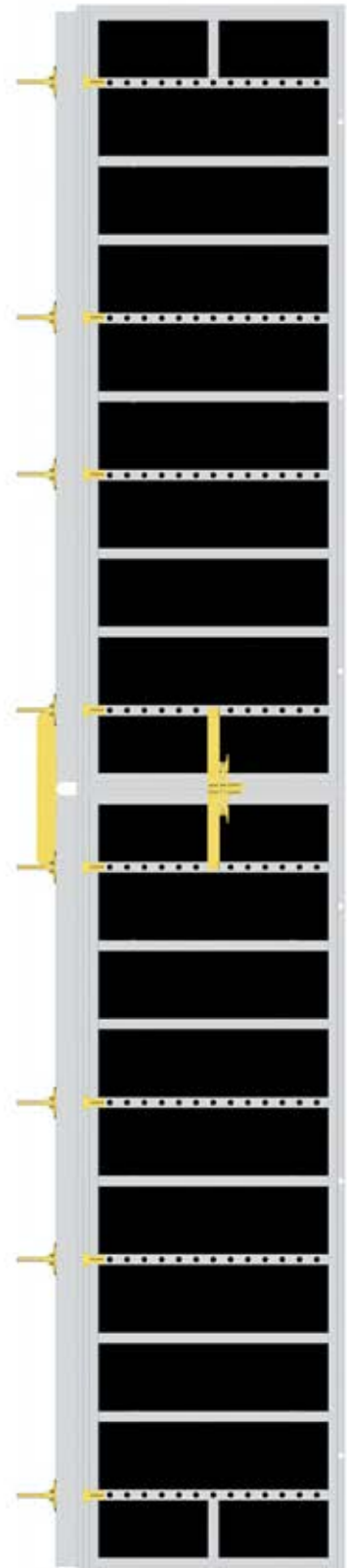
COM PANE: COLUMN FORMWORK

The Multi-use Panel allows the formation of columns in grids of 5 cm by 5 cm up to a height of 6 m.

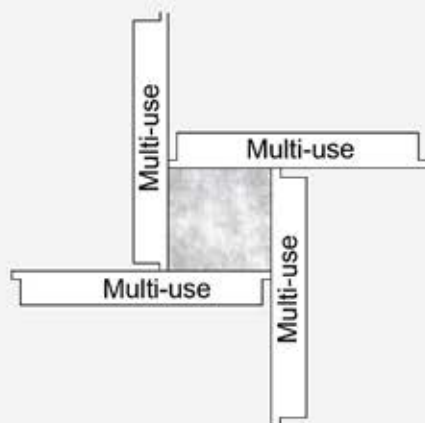
- Multi Use panel 300 x 100 cm/ 10 - 80 cm
- Multi Use panel 300 x 75 cm/ 10 - 55 cm



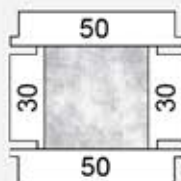
4 stacking clamps are needed for stacking columns



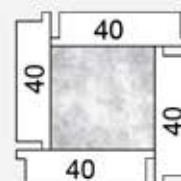
COM PANE: MULTIPLE APPLICATIONS



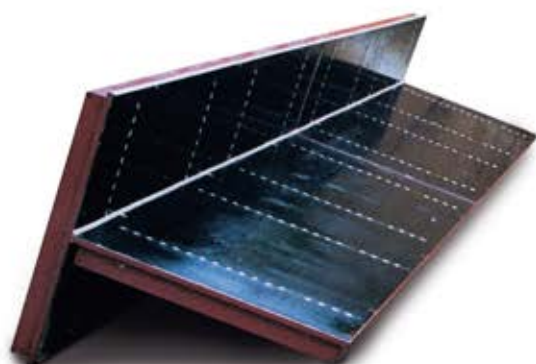
Example of 30 x 30 cm columns: 4 elements COM PANE 300x75/100 Multi-use, 16 clamps for corner/column, 16 wing-nut.



Example of 30 x 30 cm columns: 2 elements COM PANE 300x50 and 2 elements COM PANE 300x40, 16 outer corner clamp, 16 wedges galvanized.



Example of 30 x 30 cm columns: 2 elements COM PANE 300x40 and 2 elements COM PANE 300x40, 16 outer corner clamp, 16 wedges galvanized.



Formwork in assembly phase. Column formwork with outer corner clamps.

The elements are assembled as a corner on the floor, then positioned using the crane



Column formwork with outer corner clamps



COM PANE: CIRCULAR COLUMN FORMWORK

The excellent finishing quality of the circular column formwork made of Steel provides perfect concrete surfaces



- **Quick assembly -**

Only two column halves are assembled using the **COM PANE** clamp, ensuring quick and economical concreting.

- **Correct stacking -**

The three different element heights (3.00 m, 1.50 m or 0.50 m) ensure ideal height adjustment.

- **Fresh concrete pressure -**

The circular formwork is suitable for a fresh concrete pressure of 80 kN/m²

- **Simple loading / unloading and transport -**

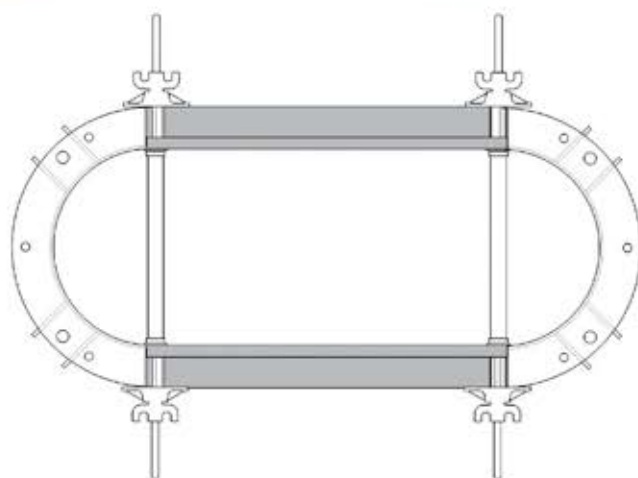
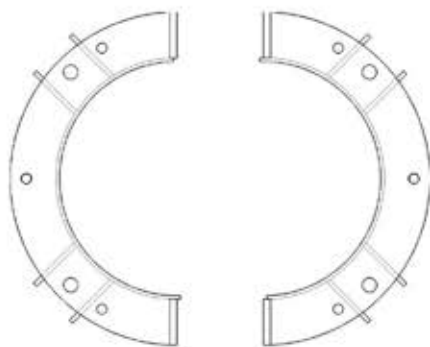
Elements can be loaded / unloaded individually or stacked.

Integrated loading / unloading accessories ensure safe, non-slip stack of elements. Precious construction site storage space can be used more efficiently

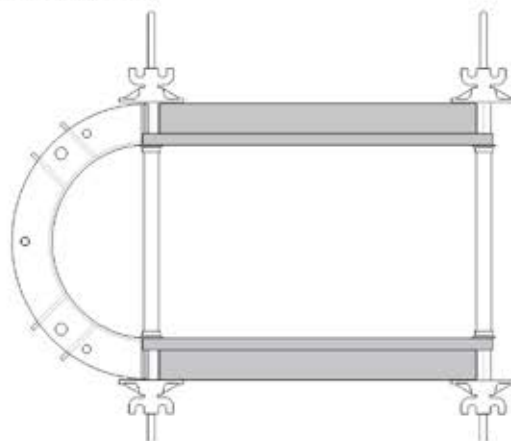
COM PANE: CIRCULAR COLUMN FORMWORK

Circular column formwork
Height: 50 – 300 cm

Diameter: 30 – 100 cm (other heights
and diameters on request)



Oval columns.



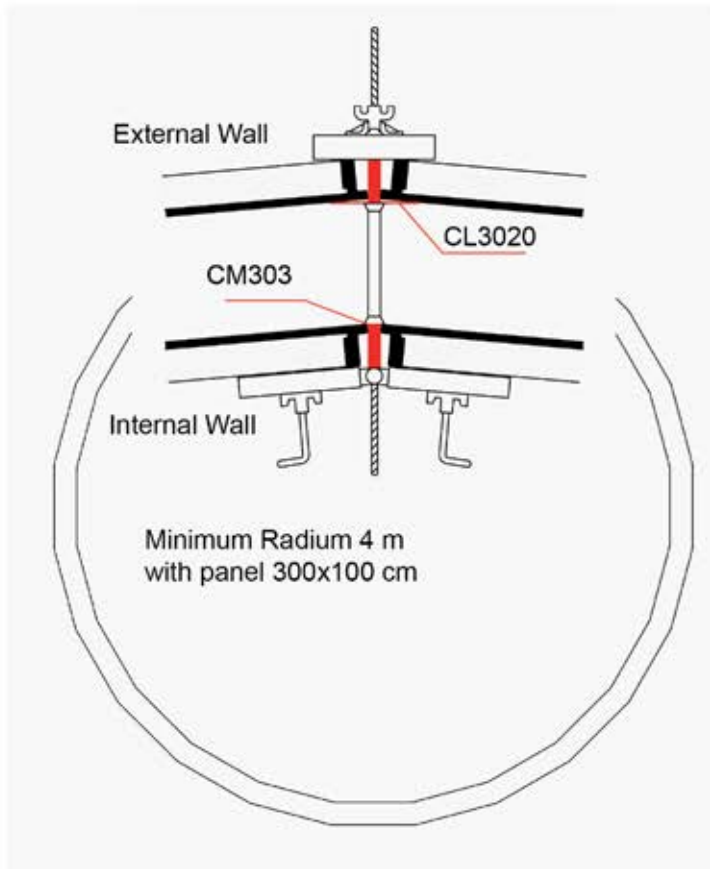
Circular head-closing

The circular column formwork can be combined with **COM PANE** standard element.

COM PANE: FORMWORK CIRCULAR WALLS

The special shape of the panel frame permits an optimal utilization of the COM PANE system for the creation of circular walls.

The smallest radius is of 300 x 100 cm, which corresponds to a 15° angle at every joint. The compensation piece for circular formwork, which is used to join the panels together, can be adjusted to suit the radius curvature required.



Internal wall joint

One (1) Compensation piece SCM303 and two (2) radius clamps SMRC2

External wall joint

One (1) Compensation plate SCL3020

Internal view



External view



COM PANE: ACCESSORIES FOR CIRCULAR FORMWORK



Compensation plate SCL 3020
complete with profile (300 x 20 cm)



Compensation piece SCM303
(300 x 3 cm)



Radius clamp SMRC2 for
circular formwork



COM PANE: SINGLE SIDED FORMWORK

Anchorage of the formwork is of vital importance here, particularly as concrete pressure and lifting forces must be diverted to the foundation nut. This system is used for single-sided formwork, vanes, steel columns etc.

SEWVAC is able to supply a proven, absolutely safe and economical solution. The system consists of triangular supports to be attached to the formwork, thus creating the units. The triangle, via the tie-rod should be attached to the appropriate position in the frame system.


Formwork for single-sided concreting

System components per linear meter:

- 1 element 300 x 100 cm,
- 1 support, 2 fasteners,
- 2 SALFs,
- 1 threaded rod 100 cm,
- 3 wing nuts

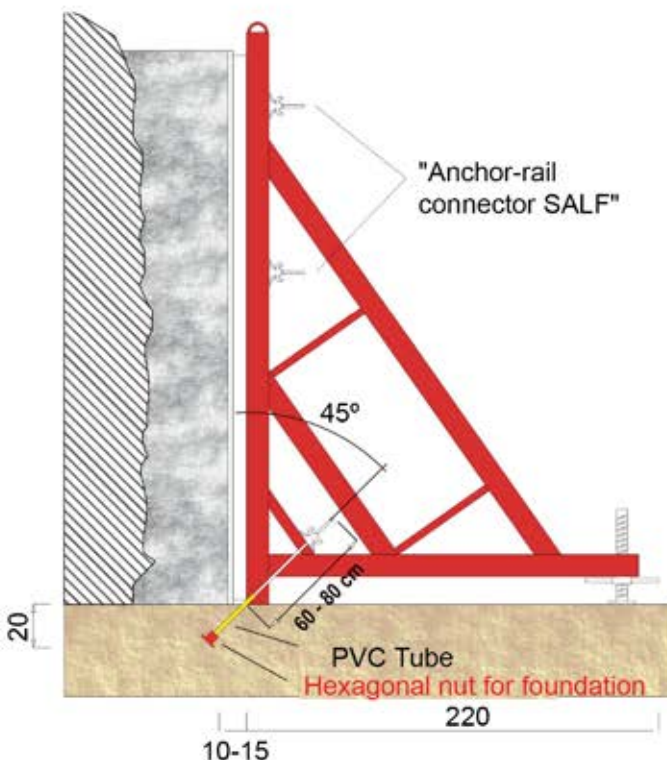
Formwork accessories:

- 1 hexagonal nut for foundation per linear meter,
- 1 PVC sleeve (Ø22-26) of approx. 30 cm as protection for the threaded rod.

Assembly instructions:

The hexagonal nut with PVC sleeve is fixed approx. 40 cm deep into the foundation.

The PVC sleeve for the threaded rod should protrude 10 - 15 cm (positioned at approx. 45°) from the foundation at the building line of the wall to be constructed.



Specific solutions are offered depending on the situation for concreting heights of over 3.0 m (please ask our technical office).

COM PANE: SINGLE SIDED FORMWORK



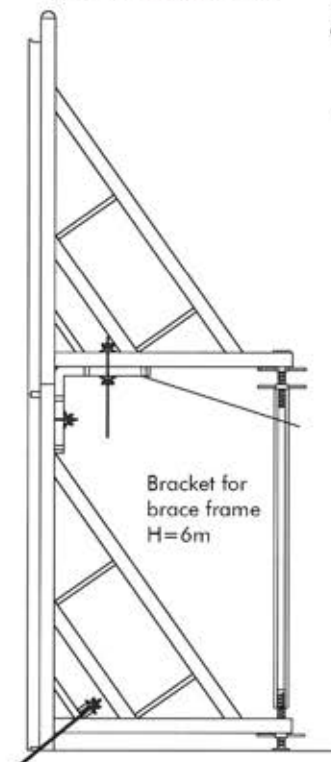
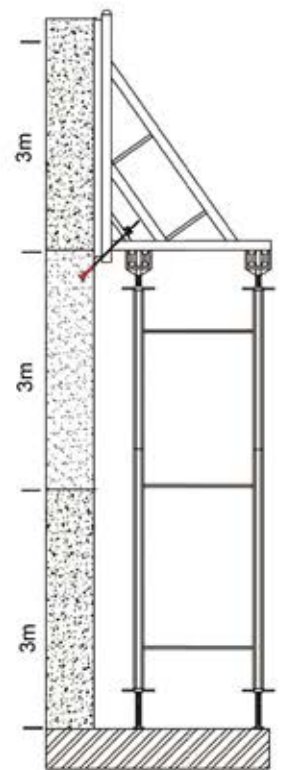
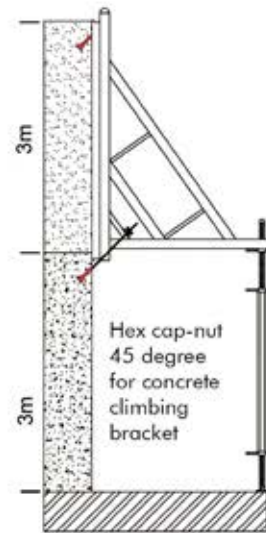
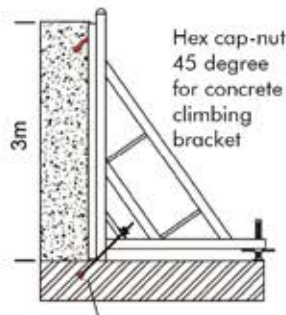
Base cap-nut



Base cap-nut with guidance wedge



Hex cap-nut 45 degree for concrete climbing bracket



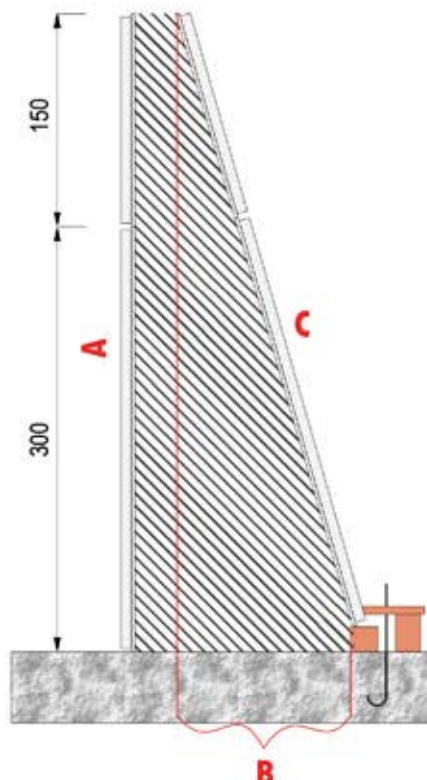
COM PANE: FORMWORK FOR RETAINING WALL

Thanks to the special profile of the **COM PANE** panels, it is also possible to scaffold inclined walls up to a slant of 30 cm per 1 m height.

The slant shuttering plate is used for inclines of over 10%. This gives a uniform distribution of the tension over the frame.

**Walls with a slant of over 5°.**

- Anchorage to compensate for the oscillating movement.
- Installation of a board between the frame and the wing nut in order to distribute the tension of the tie-rod equally over the formwork.



Formula for calculating the slanted side of the formwork:

$$C = \sqrt{A^2 + B^2}$$

Beispiel:

$$(A) \quad 450^2 = 202.500$$

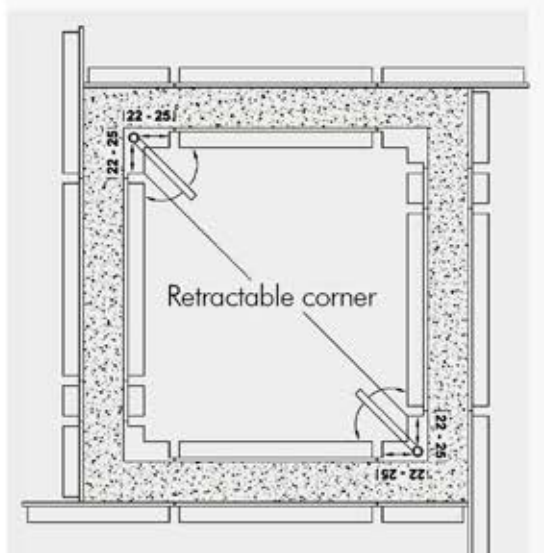
$$(B) \quad 100^2 = 10.000$$

$$212.500$$

$$C = \sqrt{212.500} = 460 \text{ cm}$$

COM PANE: FORMWORK FOR LIFT SHAFTS

Just one twist with the spanner on the stripping corner is enough to reduce the inner corner by 2 cm on each side. This enables the stripping of lift shafts etc. without dismantling the formwork.



Retractable corner 300 x 25 x 25 cm

COM PANE: WALK WAY BRACKETS FOR WORKING SAFELY

The brackets are attached to the panel wall at the points provided. This allows the temporary erection of walkways and fulfills safety requirements. With the 300 x 100 cm panels, the walkway can be composed of steel plates (commonly used for metal bridges).



Adaptor for brackets
and metal plates

Security pin, end-piece
for service bracket

"We Provide the Confidence to Work Safely"

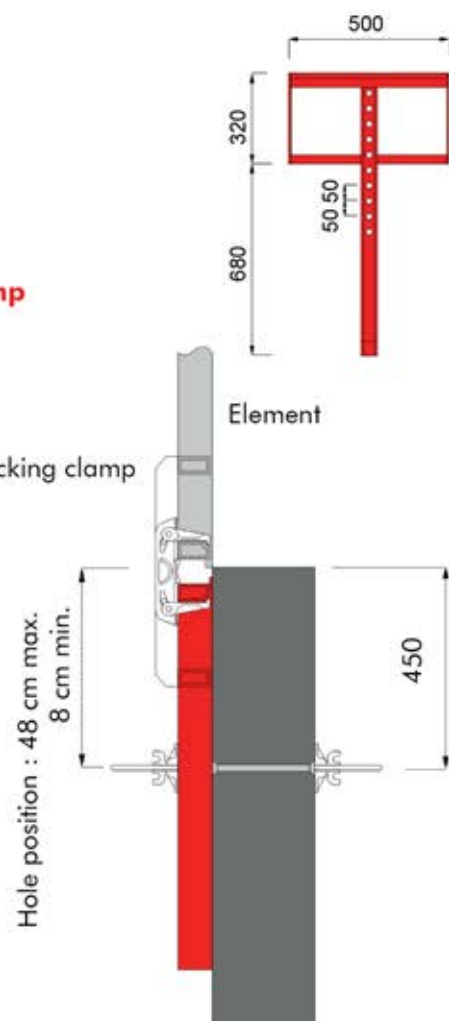


COM PANE: CLIMBING SCAFFOLD BRACKETS AND CLIMBING CLAMPS

The adjustable climbing clamp is ideal for use as a climbing support for construction joints when no work platform is required, e.g. existing scaffolding or other work surfaces.

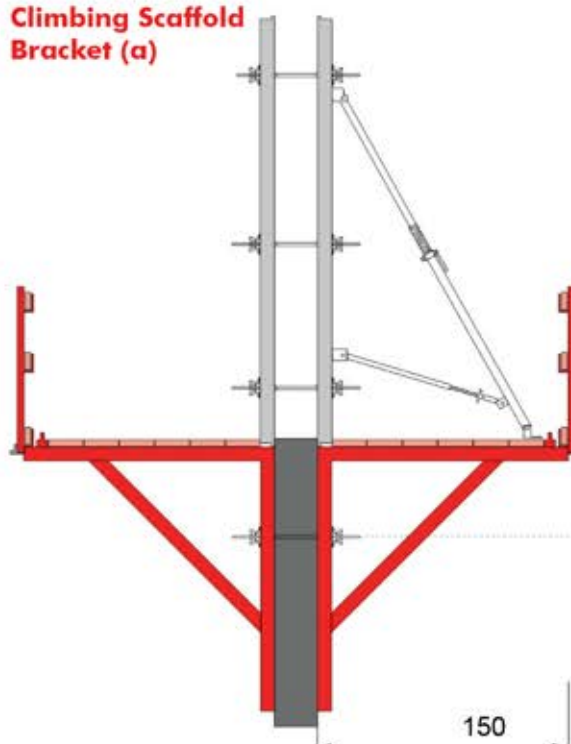


Adjustable climbing clamp

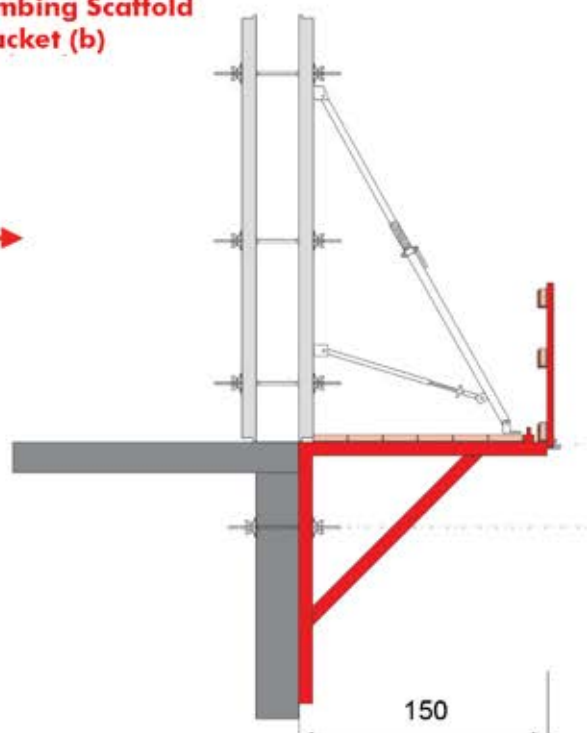


SEWAC climbing scaffold brackets: The rational solution for single-pouring. The platform can be laid by the client with simple scaffolding procedures. The distance between climbing brackets must not exceed 180 cm.

Climbing Scaffold Bracket (a)



Climbing Scaffold Bracket (b)



COM PANE: CLIMBING PLATFORMS SAFE WORKING

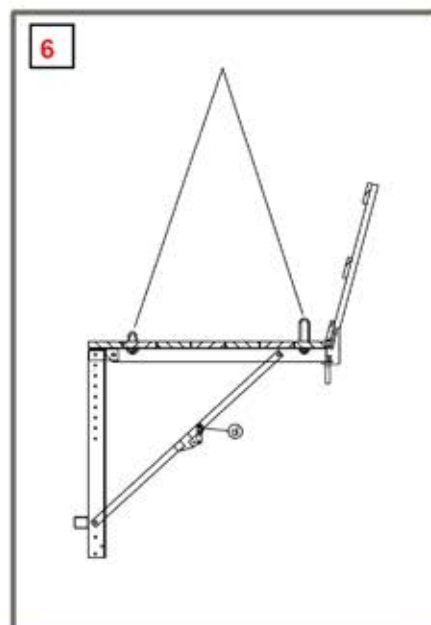
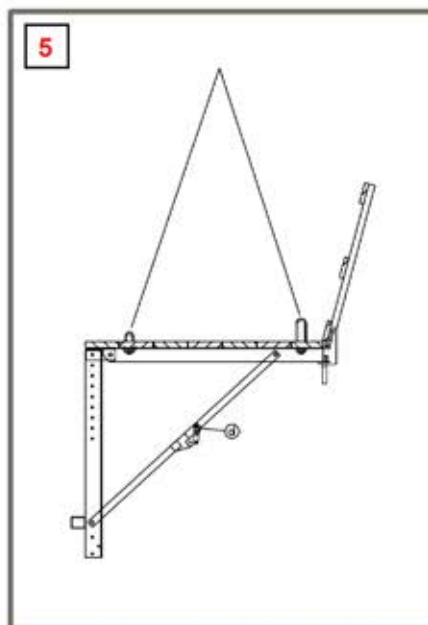
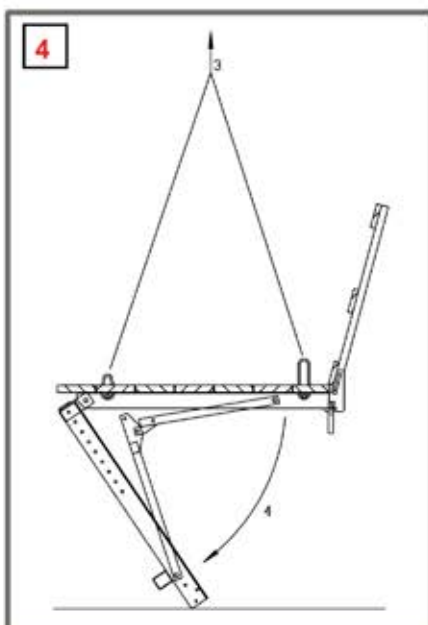
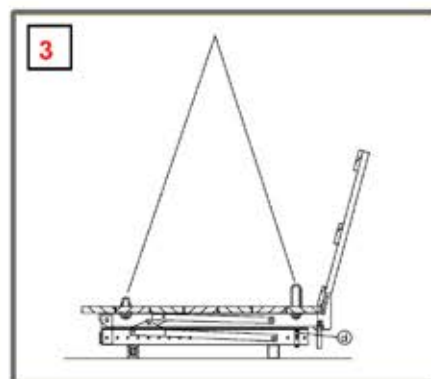
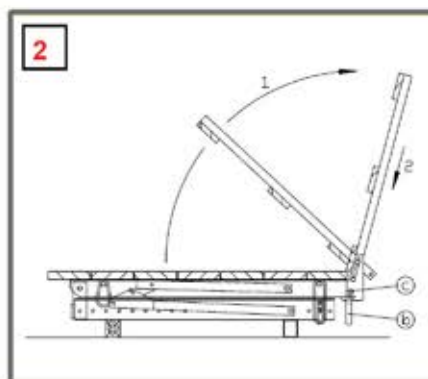
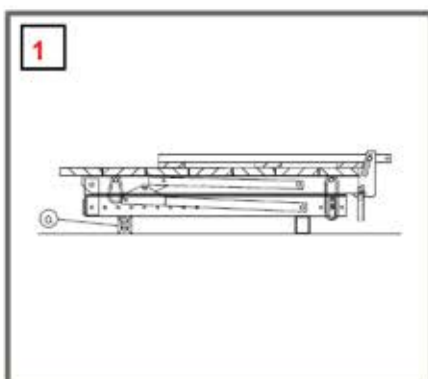
SEWVAC climbing platforms provide the complete system for safe and economical climbing. A platform of 1.8 m gives ample space to work on.

The support props of the formwork can be attached directly onto the platform and so enable a quick and accurate positioning of the formwork. They are ideal for high walls with several horizontal fill sections.

Further information can be found in the "Working in Safety" manual.

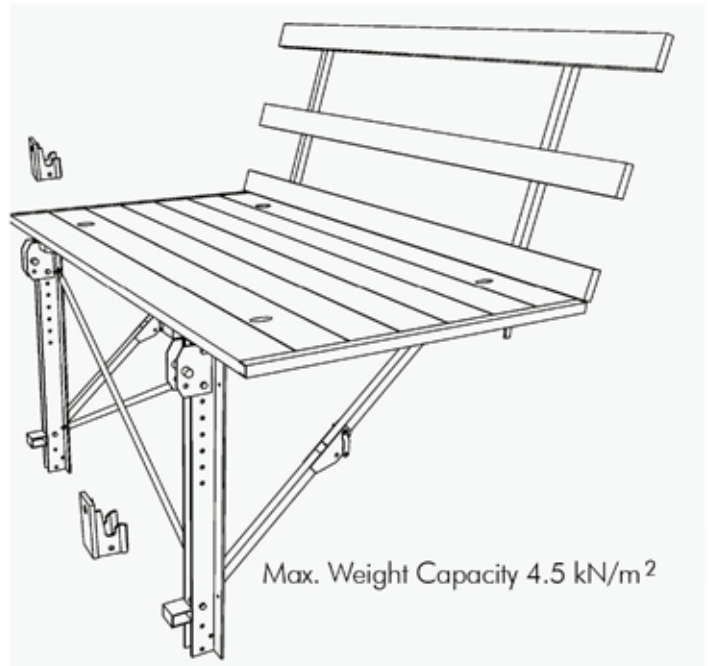
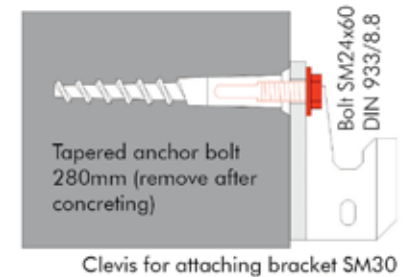
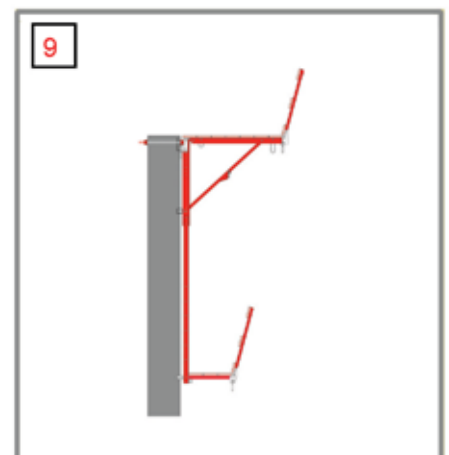
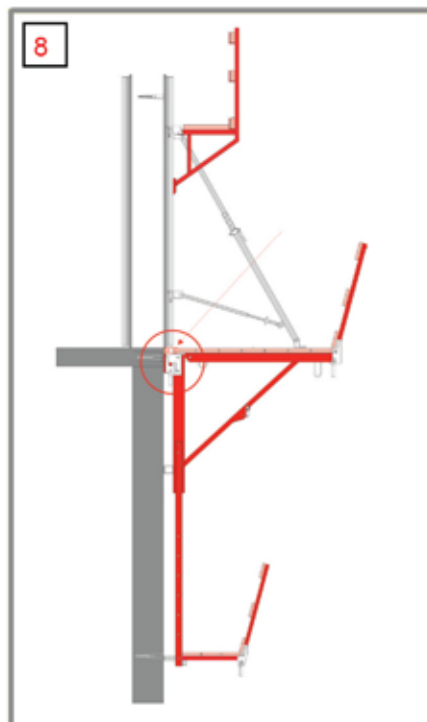
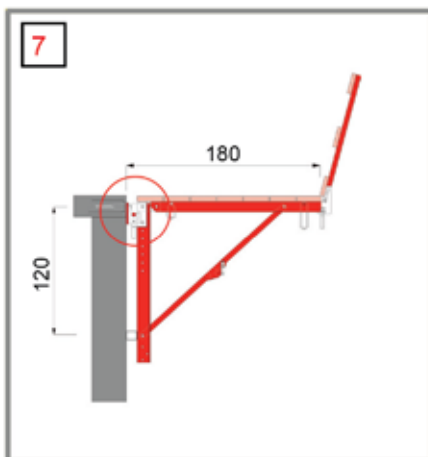
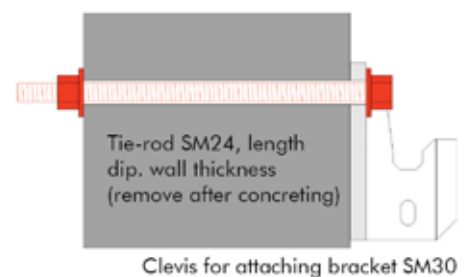


COM PANE: CLIMBING PLATFORM APPLICATIONS - SIMPLE TO USE



COM PANE: STEPS FOR PLATFORM ASSEMBLY

1. Position the climbing platform on the wooden beams (a), as seen in diagram.
2. Raise the parapet (end-piece) (1), turn the pin (b) 90° and remove it, lock the parapet into position (2) and reinsert pin (c), which locks the whole bracket into an open position.
3. Hook lifting-cables onto rings while removing pin (d).
4. Raise bracket, allowing a 90° opening.
5. Secure the diagonal. Insert pin (d) into central mechanism of the diagonal and fasten with the appropriate stopper.
6. Affix clevis shoe (e) in the pre-bored holes according to the working height of the clamp.
7. Position the clamp in the relative clevis (5) and block with pin (f).
8. If the climbing platform is to be used as a formwork bolster, the appropriate accessory must be mounted every 2 m.
9. Suspending scaffold is used to remove the clevis shoes (height up to 3.75 m).

**Anchor bolt version****Version with threaded rod 24mm and screw SM24**

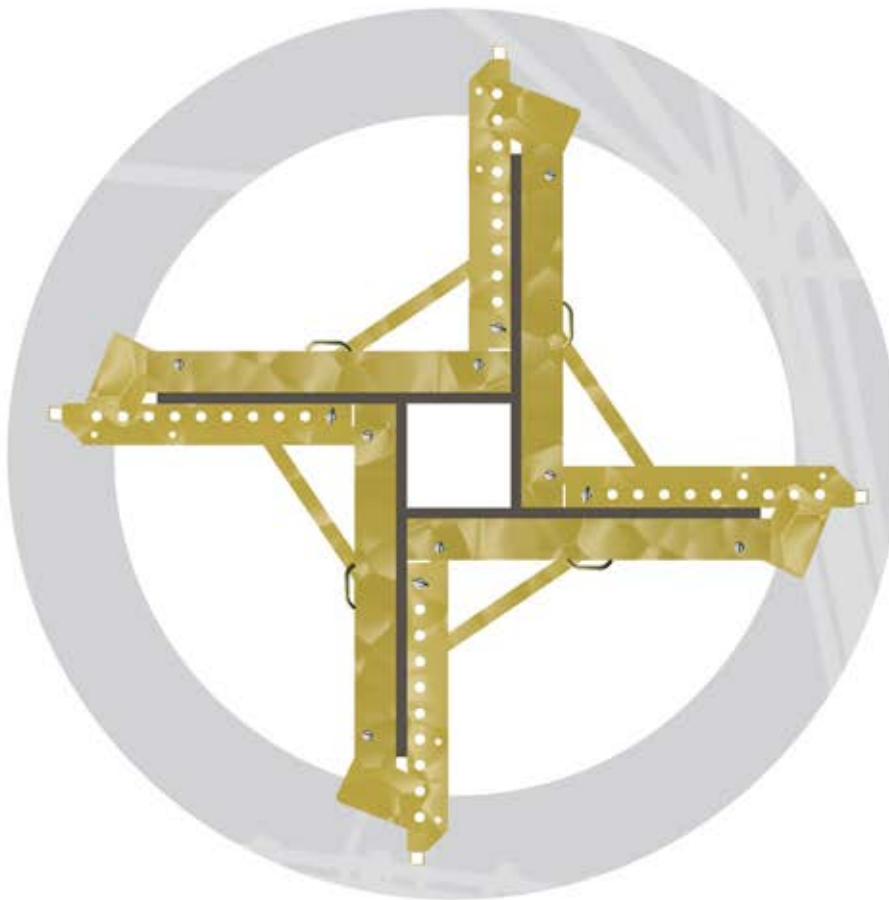
EXTENSIVE DESIGN POSSIBILITIES



Innovative Formwork Systems

Kwik-Col:

Kwik-Col: COLUMN FORMWORK FOR
HIGH EXPOSED CONCRETE REQUIREMENTS



Kwik-Col: COLUMN FORMWORK

Kwik-Col column formwork can be manoeuvred with excellent forming times for high exposed concrete requirements.

- Only 4 clamps on one side need be opened for dismantling
- Position with just 1 lifting operation (folding mechanism)
- Ladder ascent and concreting platform for safe working at any height
- Wheels mean the complete column formwork can be manoeuvred by hand
- Small transport volume thanks to folding support struts

Adjustment range: 200 - 600 mm in 50 mm grid.

Element height: 3000/2700/1500/1200 mm

Formwork face: Composite Panel (15 mm)

Permissible concrete pressure: 80kN/m² in accordance with standard DIN18218

Models: 1200-3000 mm



Simple clamping in 5 cm grid



Four wheels for manoeuvring the complete column formwork



Elements can be stacked to save space



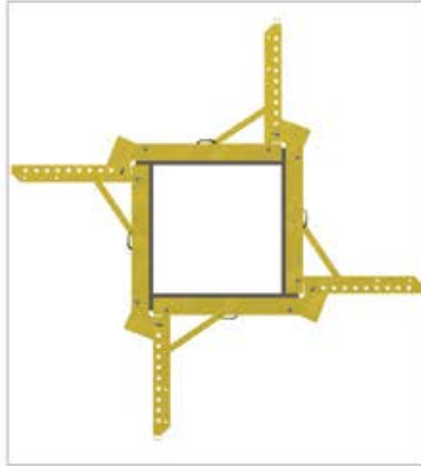
High exposed concrete requirements

Kwik-Col: COLUMN FORMWORK

Column cross sections from 200 x 200 mm to 600 x 600 mm can be concreted in 50mm grid in square or rectangular forms.



Example:
column 200 x 200 mm



Example:
column 600 x 600 mm



Complete **Kwik-Col** column formwork can be positioned in one lifting operation



EXTENSIVE DESIGN POSSIBILITIES



Innovative Formwork Systems

Pi (π) RADIAL FORMWORK SYSTEM:

A versatile formwork system that can be used to construct any shape.



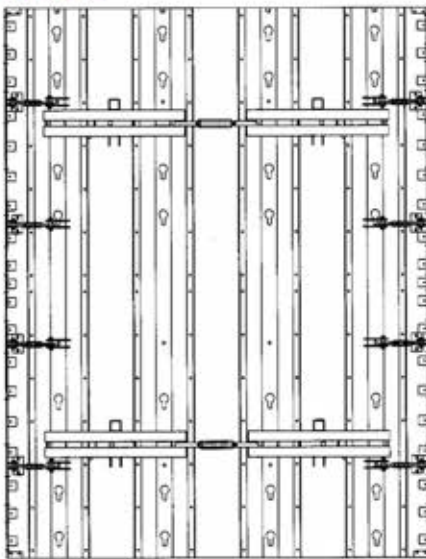
Pi (π) RADIAL FORMWORK SYSTEMS:

Four different height plus a telescopic section

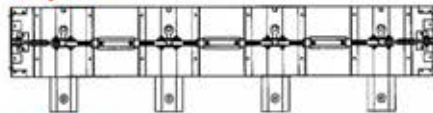


Using the four different sizes along with the telescopic section you can reduce the overlap to a minimum on any wall height.

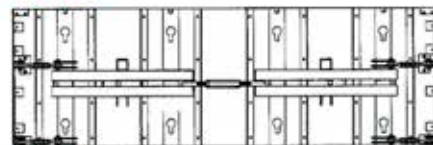
300 cm



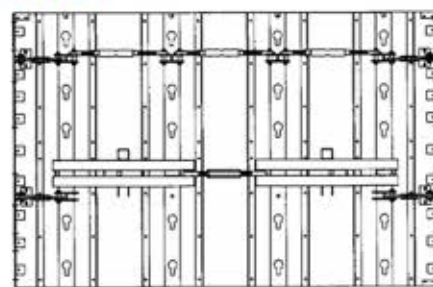
37,5 cm



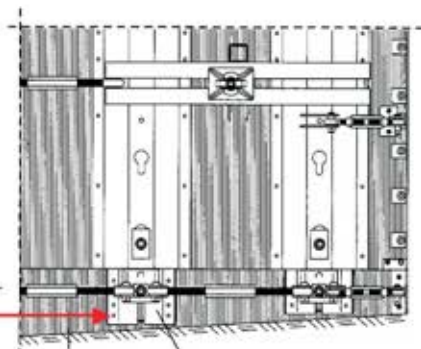
75 cm



150 cm



Telescopic Girder

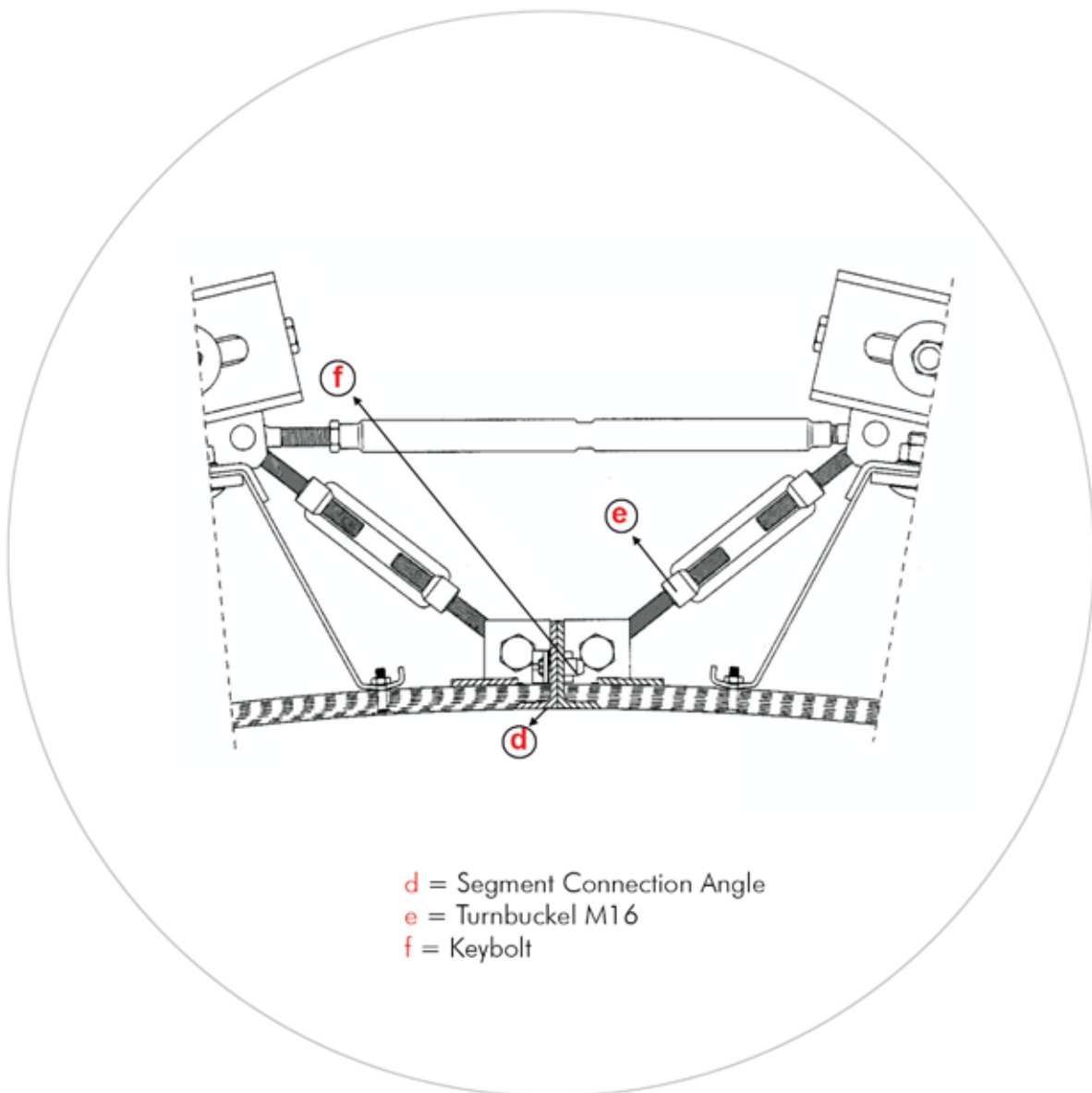


Pi (π) RADIAL FORMWORK SYSTEMS:

Segment connection angle with oblong holes and clamp

The Clamp completely rules out any risk of misalignment at the joints and guarantees the fast and necessary tightness of the structure. Optimum concrete finishing. No expensive re-working.

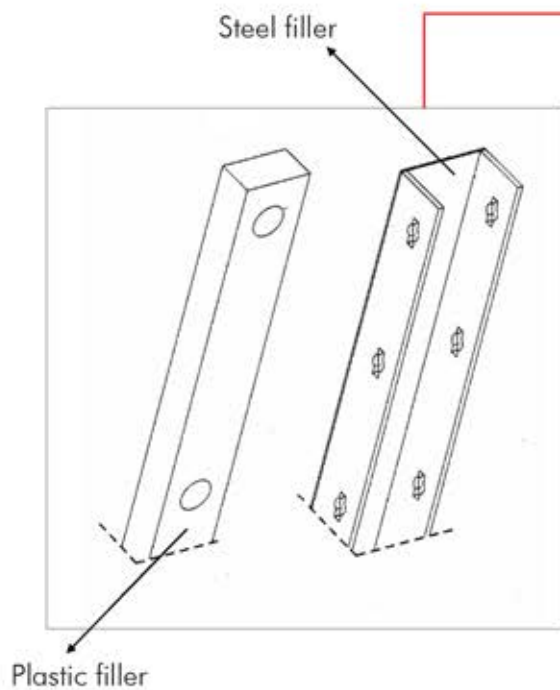
Any unevenness in the ground slab can be compensated with ease.



Pi (π) RADIAL FORMWORK SYSTEMS:

Plastic/Steel filler pieces

The system has a large array of variable filler pieces which enables the formwork of complex design and difficult dimensions to be accomplished with ease.



No Work-bench required

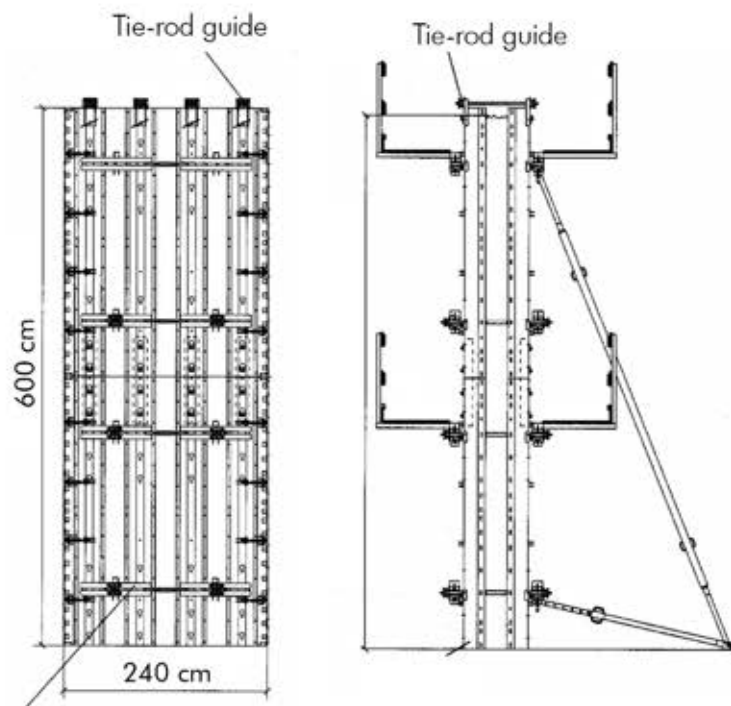
Pi (π) RADIAL FORMWORK SYSTEMS:**This system has very few tie-rods in the concrete**

This is very apt for forming water retaining structures as few tie-rods will reduce costs.



Segment high 300cm without tie-rod guide = 0,56 Spst./m²

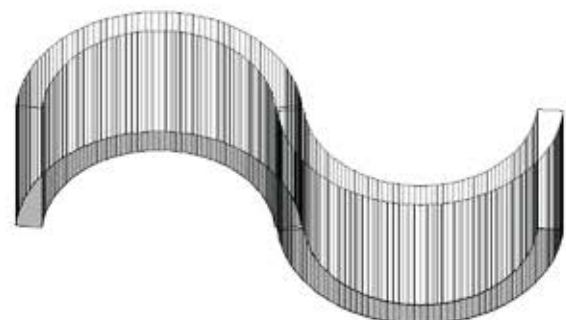
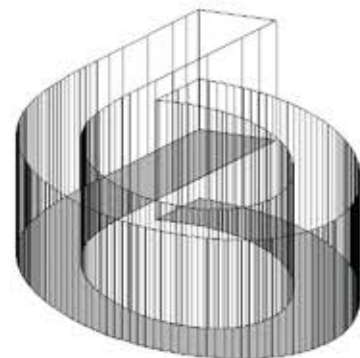
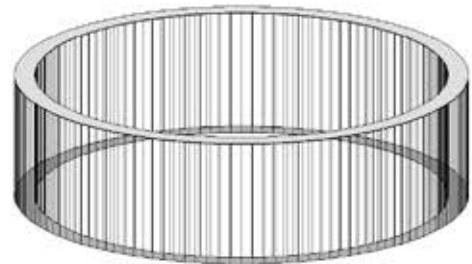
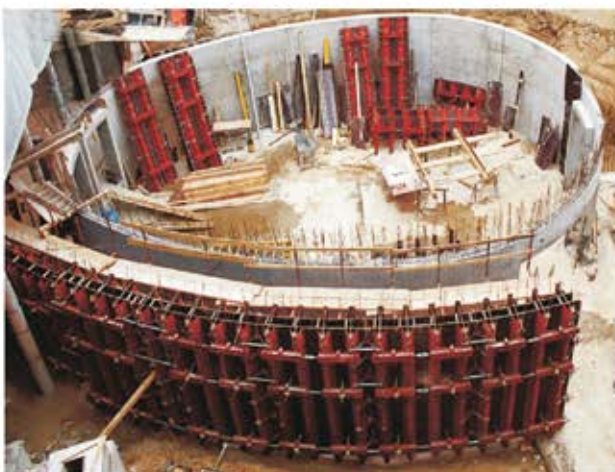
Segment high 300cm with tie-rod guide = 0,28 Spst./m² at the concrete.



Pi (π) RADIAL FORMWORK SYSTEMS:

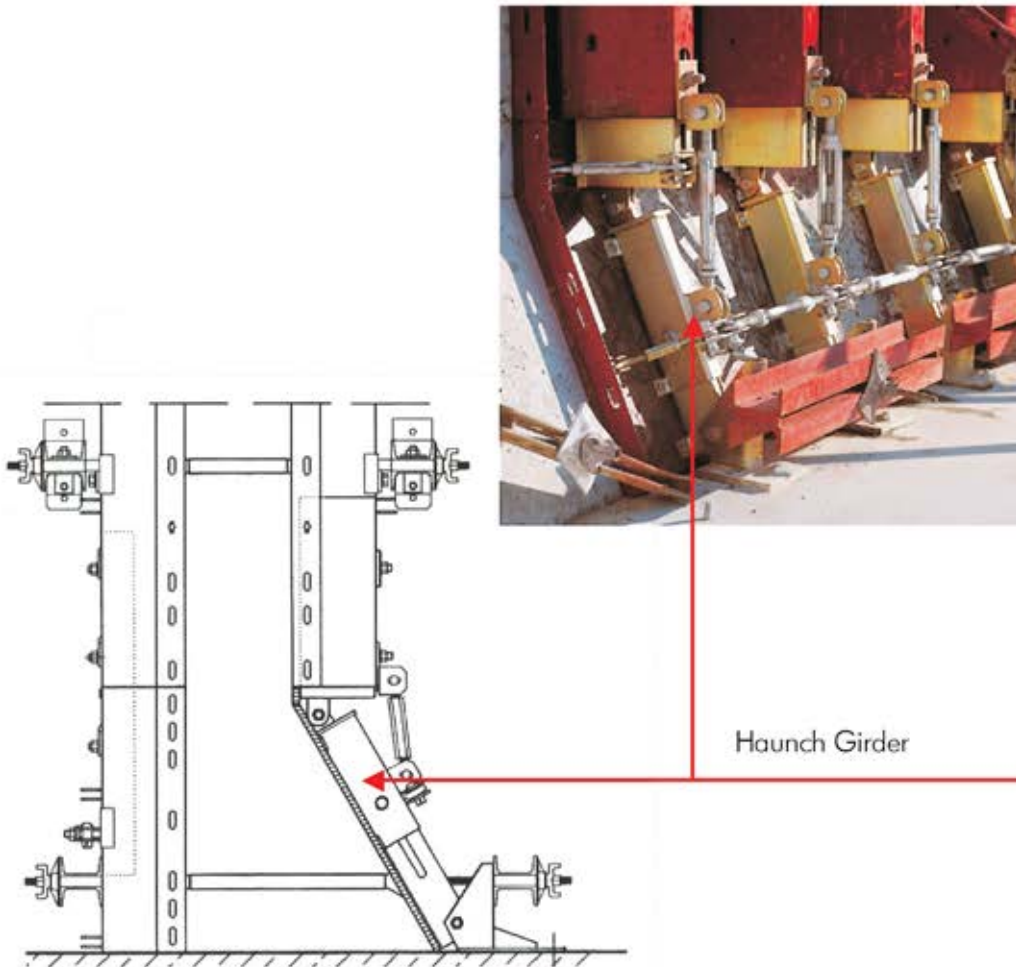
Different Radii Settings are possible

You need only one special wedge on a conical wall at the joints



Pi (π) RADIAL FORMWORK SYSTEMS:**Haunch Girder :**

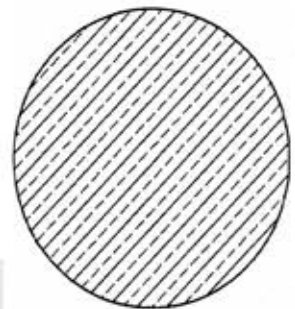
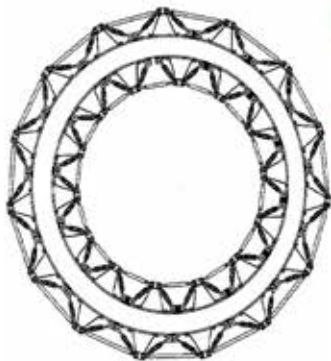
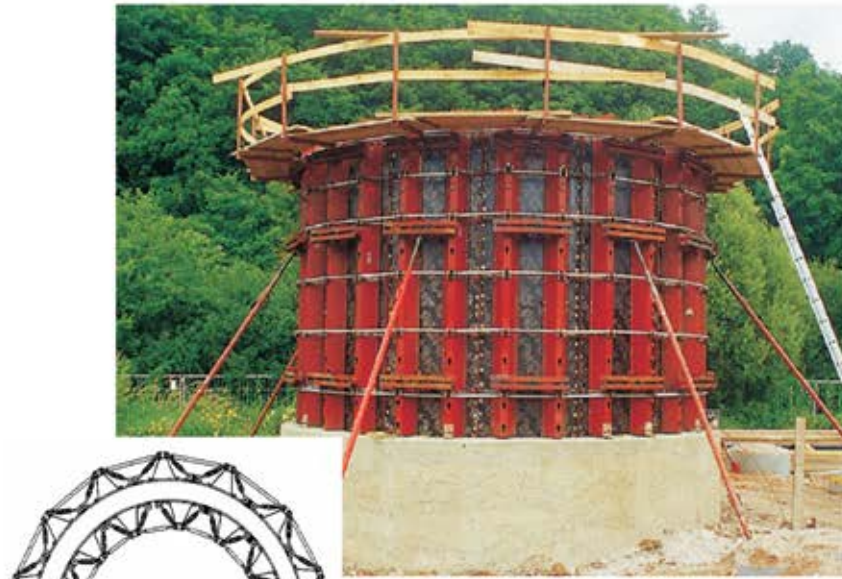
Economic solution for variable haunches.



Pi (π) RADIAL FORMWORK SYSTEMS:

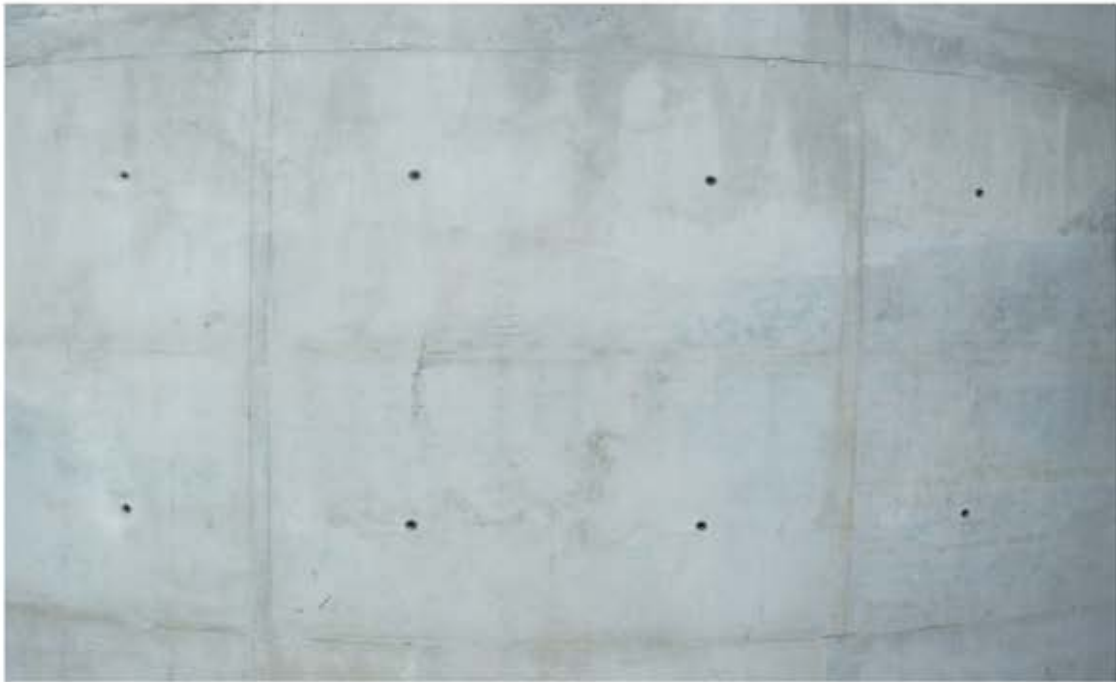
Tie-less tasks:

For small concrete circular tanks the forces can be absorbed by ring tension eliminating tie rods therefore SAVING TIME AND MONEY.



Pi (π) RADIAL FORMWORK SYSTEMS:

CONCRETE FINISH



LEVELLING DEVICE GROUND FLOOR



Pi (π) RADIAL FORMWORK SYSTEMS:

LIFTING DEVICE



SHOWING FORM & CONCRETE FINISH



EXTENSIVE DESIGN POSSIBILITIES



Innovative Formwork Systems

ALUSTRONG

Support System For Heavy Loads (Leg Load Of 6000 kg)



Safe and Easy to Erect

ALUSTRONG: SUPPORTS FOR HEAVY LOADS

Certificate Milan Polytechnic

The Alustrong of 2m X 2m Support System (6000kg Leg Load)



ALUSTRONG: SUPPORTS FOR HEAVY LOADS

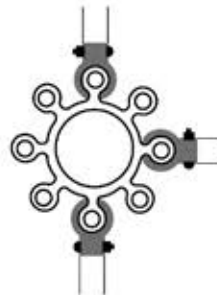
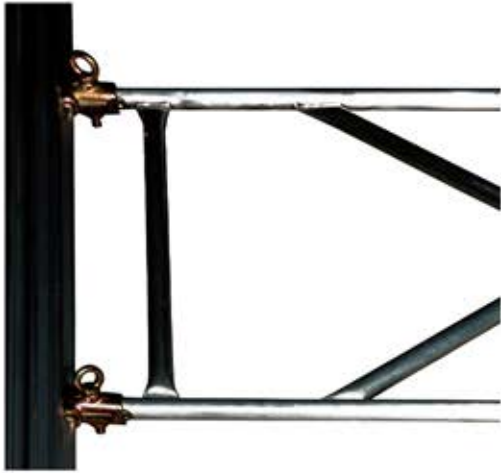
Salient features:

- Ideal for heavy loads both in concentrated and distributed designs. Max. weight per support 6000 kg.
- Vertical assembly of the structure to raise level above working height.
- Quick assembly with easy-lock clamps.
- The single support can be transformed into a framed structure.

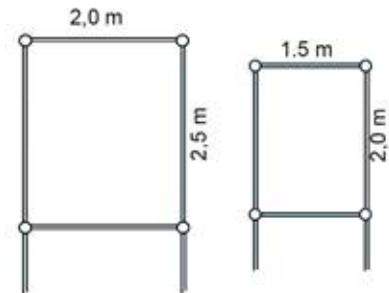


Example: The system permits the building of structures up to a height of 10 m, making the erection of the support system quick, safe and easy.



ALUSTRONG: SUPPORTS FOR HEAVY LOADS**Quick And Easy to Use**

The 8 brace connecting points on the Alustrong.



Example of prop spacing and relative load:
250 x 200 cm for a load of 1200 kg/m²
and 200x 150 cm for a load of 2000 kg/m²

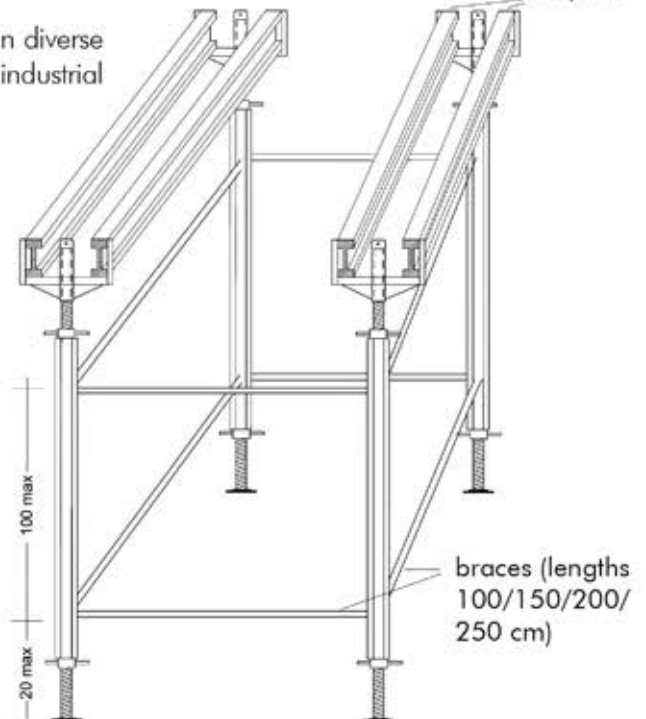
ALUSTRONG props can be used singly or as part of a stacked support frame.

The connector frames and distance tubes can be attached to any point on the ALUSTRONG frame.



ALUSTRONG support system can be used in diverse sectors ranging from residential housing, industrial buildings to infra-structure projects.

Wood girders H20 are always used in pairs

**System Assembly:**

The single props are connected using horizontal and diagonal braces in the desired grid-spacing form.



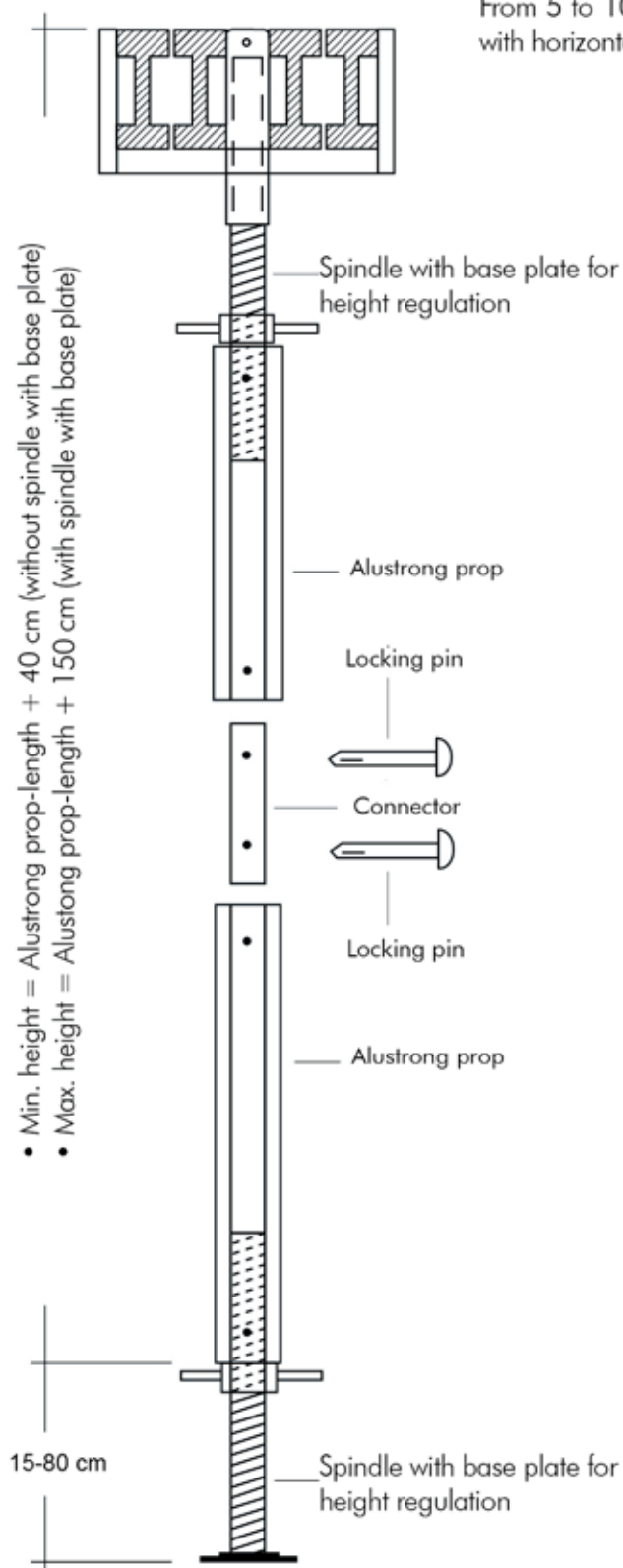
ALUSTRONG: ASSEMBLY ALUSTRONG PROP

The ALUSTRONG system is composed of a small number of components.

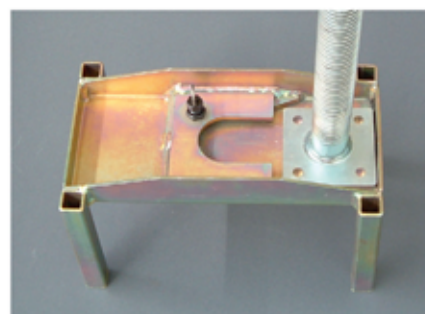
Height can be adjusted.

Safe load per prop is 6000 kg up to a height of 5 m.

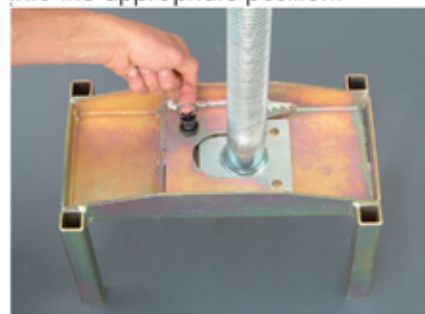
From 5 to 10 m the max load is 4500 kg (a tower with at least 4 props with horizontal and diagonal braces).



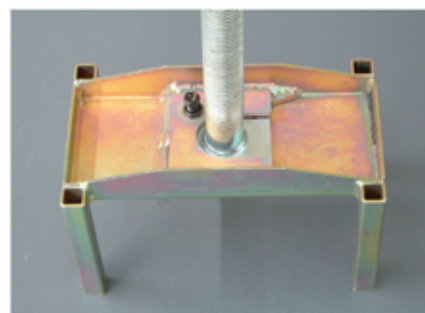
Connection of the prop-head to the spindle with base plate



Insert spindle with base plate into the appropriate position.



Lift locking pin



The spindle with base plate is connected to the prop-head

ALUSTRONG: SYSTEM COMPONENTS**Alustrong Bored Profile**

Item: A-P 10 Dimensions: 1,00 m Weight: 5,7 kg

Item: A-P 15 Dimensions: 1,50 m Weight: 8,5 kg

Item: A-P 20 Dimensions: 2,00 m Weight: 11,3 kg

Item: A-P 30 Dimensions: 3,00 m Weight: 17,0 kg

Item: A-P 40 Dimensions: 4,00 m Weight: 22,7 kg

Complete spindle

Item: A-FC
Weight: 5,9 kg

Spindle complete with base plate

Item: A-FCP
Weight: 7,0 kg

Prop-head

Item: A-TP
Weight: 8,8 kg

Brace connector

Item: A-TG
Dimensions: 0,50 m
Weight: 1,73 kg

Locking pin
Item: A-PN

Connector frame

Item: A-DGI 20
Dimensions: 2,0 m
Weight: 8,1 kg

Connector frame

Item: A-DGI 15
Dimensions: 1,50 m
Weight: 7,4 kg

Distance tubes

Item: A-D 10 Dimensions: 1,00 m Weight: 3,2 kg

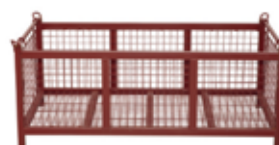
Item: A-D 15 Dimensions: 1,50 m Weight: 4,2 kg

Item: A-D 20 Dimensions: 2,00 m Weight: 5,2 kg

Item: A-D 25 Dimensions: 2,50 m Weight: 6,2 kg

**Diagonal tube**

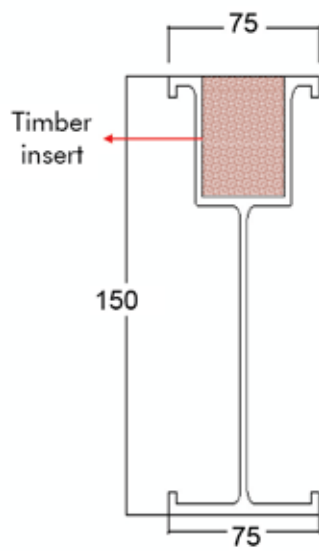
Item: A-DG 30
Dimensions: 3,00 m
Weight: 8,3 kg

Grid box

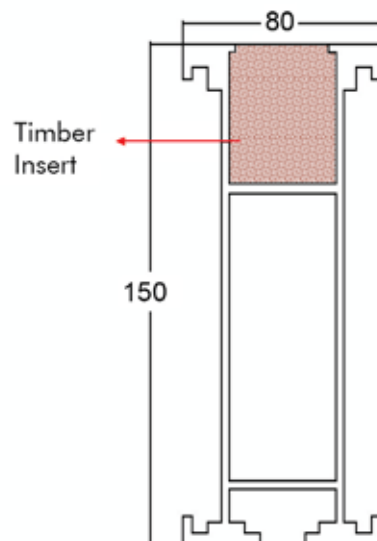
Item: CAR
Dimensions:
200 x 115 x 80 cm
Weight: 100,0 kg
Max. weight :
2.500,0 kg

ALUSTRONG: ALUMINUM BEAMS

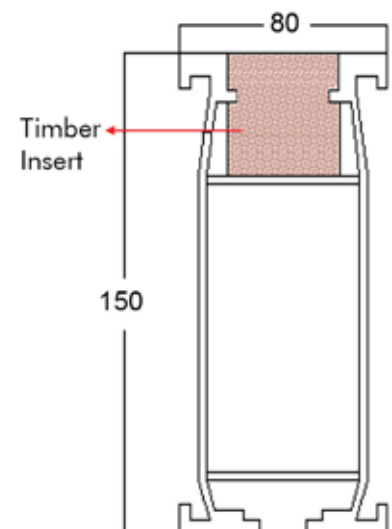
FS 150 AB



FS 151 AB



FS 152 AB



FORMWORK FOR HIGHWAYS:



SPECIAL FORMWORK FOR HIGHWAYS

FORMWORK FOR HIGHWAYS

Formwork for highways is mainly used for kerbs. Its many readjustment possibilities allow for quick and precise forming.

With the help of guard-rails, the rails themselves, with posts, are mounted directly onto the formwork, where they are encapsulated during the pouring process. This saves the measuring and adjusting of the guard-rail posts. The readjustment mechanism allows pre-bending of the guard-rails in light curves allowing for routing to follow the roads.



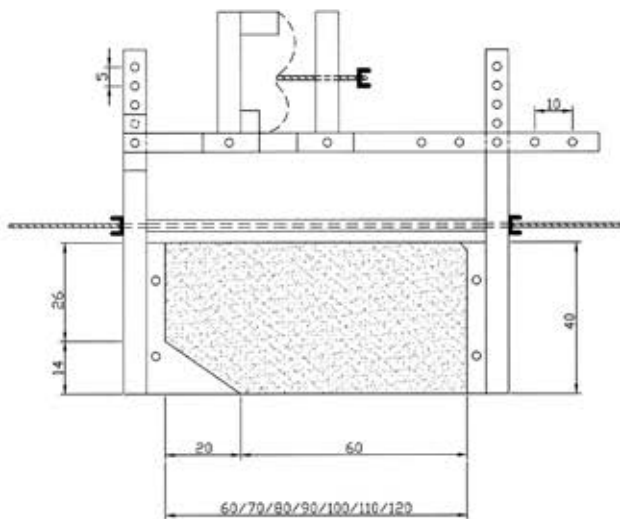
FORMWORK FOR HIGHWAYS: TECHNICAL INFORMATION

The special formwork is 40 cm high and is adjustable every 10 cm in its width (min. 60 cm - max. 120 cm).

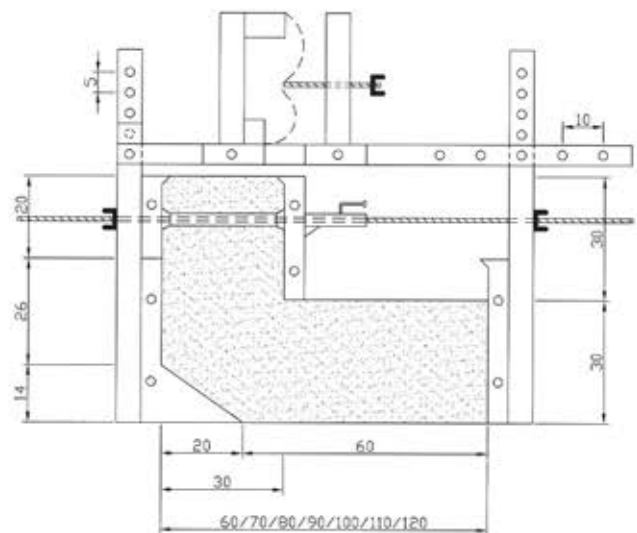
There is an optional climbing support crown which is mounted on the regular crest formwork and which allows you to vary the shape of the crest.

Lengths of panels available: 100 cm/ 200 cm.

Every panel is equipped with compensation parts to enable the creation of the various radii. All parts are connected with security pins and wedges to enable quick assembly (40 m per day).



Special Formwork



Special Formwork with Climbing Support Crown



SPECIAL FORMWORK

The use of special formwork permits independent working to save time and costs.



Steel formwork:

Steel formwork consists of an inner part, two long outer parts, a base part with topside end piece for inserting the grating.



Prefab concrete well

External dimensions:
200 x 144 x 70 cm

Internal dimensions:
200 x 128 x 60 cm

Diameter: 8 ~10 cm

Concrete quantity:
approx. 1/2 metre cube

Grating dimensions:
132.5 x 64 x 4 cm

Basement wells can be manufactured and / or poured directly on the building site.

Prefab concrete well assembled



Attachment bracket complete with 3 steel impact pins M12 Prefab concrete well assembled

Packing: 12 items/bag.

APPLICATION PICTURES FOR REFERENCE

Bridge support



Bridge formwork



Bridge Trafoi



APPLICATION PICTURES FOR REFERENCE



Dam **WALL** with **COM PANE Alu** (AUSTRIA)

Inclined **WALL**, height 4 m Formed with **COM PANE Alu**



APPLICATION PICTURES FOR REFERENCE

Water purification plant



Dam WALL with COM PANE Alu (GERMANY)



APPLICATION PICTURES FOR REFERENCE



COM PANE Alu formwork, 7 m high



Basement construction

Formwork COM PANE for domestic buildings starting at basement level



APPLICATION PICTURES FOR REFERENCE

Special formwork for cable car station.



Special formwork for concrete shaft.

Concrete shaft for ski elevator plant.



APPLICATION PICTURES FOR REFERENCE

Shaft for Sewerage



COM PANE Formwork with a fixed walkway climbing platform



APPLICATION PICTURES FOR REFERENCE



1. Columns, height 9 m, scaffold done with **COM PANE** multiuse steel panels
2. Column, height 2.5 m, scaffold done with **COM PANE ALU**
3. Metallic formwork for circular columns
4. Reinforced columns with **COM PANE** panels and custom-built parts

APPLICATION PICTURES FOR REFERENCE

1. Economical production of columns with **Kwik-Col** formwork, height 3.0 m
2. Safe working ensured by ladder ascent and work platform
3. Dismantling with just 4 clamps on one side

1



2



3



APPLICATION PICTURES FOR REFERENCE**ALUSTRONG SUPPORT SYSTEM**

1. **ALUSTRONG** support system for supporting a road section
2. Completion of the first section



APPLICATION PICTURES FOR REFERENCE

ALUSTRONG SUPPORT SYSTEM

1. **ALUSTRONG** building block principle with connector frames for roof support, height 8.0 m
2. **ALUSTRONG** building block principle with diagonal tubes for supporting a concrete girder
3. **ALUSTRONG** support system with distance tubes used for an underpass



APPLICATION PICTURES FOR REFERENCE

MASS HOUSING PROJECTS



Malaysia



Ecuador



Thailand



Malaysia



Germany



Philippines



Malaysia



Romania

"Sewvac" is patented internationally. In India under the Patent No : 1803288 dated 6/Apr/2009 and any product design copied or infringed upon will face legal proceedings and claim of liquidated damages . Most products are sold with non - disclosure agreements to end clients



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