

TOPEC

The beam-free soffit formwork
Quick, convenient, perfect



Prop + panel = all you need



Two basic parts—one complete system. TOPEC is a soffit formwork system that needs no beams and still works to perfection simply with props and panels. No other soffit formwork comes anywhere near this level of efficiency with comparable work rates. Any system that has more parts takes more time. And time is money.



Uncomplicated and efficient

TOPEC has opened up totally new dimensions in soffit formwork performance. For significantly quicker, demonstrably more economic and appreciably more efficient shuttering. Because the TOPEC system operates with just 2 parts: panel and prop. It couldn't be simpler. So it's only logical that TOPEC should be so successful. The No. 1 in frame formwork for soffits.

Reduction through intelligent design

No other soffit formwork needs so few individual parts to accomplish so much. TOPEC's working principle dispenses with beams and dropheads. Everything is reduced to the essential—and this can be the key to your success.

Lightweight yet high-performance

TOPEC is the original system into which many years of tough everyday experience have been packed. The system with the large 180 x 180 cm aluminium panel and the high-performance steel prop is the uncompromising realization of the ingenious idea of applying the established principle of wall shuttering to the soffit.

In other words, using formwork frames to transcend the scope of traditional methods. And thus exploit a wealth of advantages.

Incredible work rates of under 0.2 h/m² – with the TOPEC Lift

If speed is at a premium, use the TOPEC Lift. It lifts panels hydraulically and positions them accurately and flush—up to heights of 5.7 m.

Advantages that pay



Top of the ratings—erection from below. In 3 steps. For erection and stripping, you'll find TOPEC quicker and more reliable, cost-effective and labour-saving.



And after stripping, a neat clean grid of joints with hardly any need to patch.

Quick

Fewer work cycles, fewer manipulations. And they are all repeated systematically. Plenty of shuttering in next to no time.

Reliable

TOPEC is erected from below, from the ground. Always within reach. And, up to a height of 3.50 m, without a cumbersome, awkward platform. TOPEC is so easy to use that it's virtually impossible for TOPEC novices to make mistakes.

Cost-effective

Because it's quick, labour costs are kept in check. Scaffolding costs are eliminated all together. And cranes are no longer a significant cost factor. Because, unlike with slab table forms, the need for cranes is kept to a minimum. No more costly waiting.

Labour-saving

TOPEC is particularly beneficial to the health of your staff. No erection work bent double, no dangerous stressing of the back, and no days lost due to injury. For no other system has less weight per shuttered surface than TOPEC.

Quick erection instead of long calculations

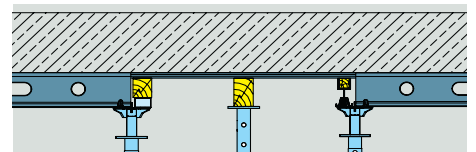
With TOPEC, you benefit before even the first slab has been shuttered. For instance, there's no longer any need to calculate the static loads of the shuttering equipment—something which can take on huge proportions in other systems. For slab thicknesses up to 40 cm (using panel 180/180), the only figure which counts is the room height. Because TOPEC always fits.



Above: The connection of TOPEC bearing and prop: Slip on the bearing, press in the spring bolt—that's all there is to it.

Right above: The handling of stacked TOPEC panels.

Right: Professional formwork cleaning at one of our branches. You, too, can benefit financially.



No need for extensive work scheduling

There is little to be said about work scheduling immediately before shuttering begins. Because there is so little to schedule. Everything you need consists of two parts. The TOPEC bearing and prop are joined together at the double.

Logistics at its most logical

Because the overall volume of materials is extremely small, the cost of storage space, transport and maintenance is that much lower. And moving the parts on each floor is no problem with the transport bogie or pallet truck.

The acceptable face of fair-faced concrete

Thanks to large panel sizes, TOPEC has fewer joints and no coarse fins which have to be ground down. Instead, just shallow grooves which can be smoothed effortlessly. TOPEC produces a neat grid of joints. And keeps the cost of patching to a minimum as well.

Cleaning down is one thing. Preventing dirt is something else

When it comes to cleaning, you'll be impressed by TOPEC's neat finish. The precision-manufactured panels fit tightly together, so the joints are fewer and smaller and less slurry penetrates through to the panel frame. And thanks to its ingenious design, the edge profile has an only 1.5 cm narrow functional edge which comes into contact with the concrete. That means only 0.05 m² of cleaning area per m² of shuttering. In other words, less cleaning work, less time involved and lower costs.

Leave cleaning to the professionals

For a professional final clean, we recommend contacting the Hünnebeck Cleaning Service. At our main plant and branches, the panels are cleaned gently and effectively with our environment-friendly special equipment.

A striking approach to early stripping: How the auxiliary supports help

According to DIN 1045, auxiliary supports may only be erected after stripping. This is so that the slab can first develop its own natural strength. In cases where early stripping is necessary, TOPEC represents a practical and inexpensive solution. Auxiliary supports are best positioned in the centers of the rooms on consecutive floors. In those areas where the TOPEC in fill strips have already been inserted anyway. An inexpensive supporting system which dispenses entirely with the more complicated dropheads. And without the risk of punching marks.

Perfect planning with the TIPOS 4.0 PC program

TIPOS 4.0 is a powerful planning tool for the simple handling of even the most complex projects. With the various modules of TIPOS, what the software does adapts to the job in hand. TIPOS 4.0 permits rapid and efficient formwork planning on site or in the work scheduling department.

**Hook it on, push it up and prop it—
it couldn't be simpler**



For front-end wall joints the TOPEC bearing is employed.



Along the sides of the panels, the edge support provides a tight joint.

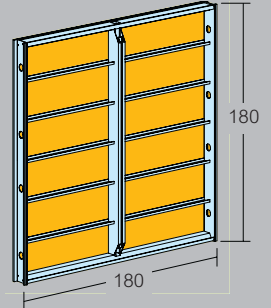
With the TOPEC system, consisting only of prop and panel, it's plain sailing all the way. Because nothing hampers the straightforward procedure. No extra materials, no modifications, no variations in dimensions, no differences in cross beams—not even any need to pay attention to markings. Nothing but prop and panel, prop and panel.

Basic equipment for erection

Large panel 180 x 180

Aluminium frame with 5-ply, 10 mm thick shuttering skin with edges protected all round by an aluminium profile.

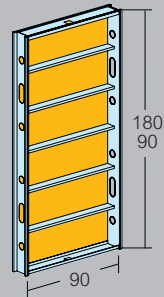
Panel surface 3.24 m²



180 x 90 and 90 x 90 panels

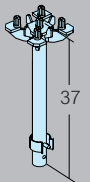
For one-man erection from the ground.

Panel surface 1.62 m² and 0.81 m²



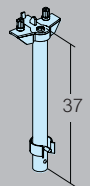
TOPEC bearing

Mounted on the tubular steel prop, the symmetrically arranged cams of the bearing engage firmly with the holding devices of the panel frame.



Edge support

With an edge stopper to support the long sides of the slab panels in front of the wall.



Props

TOPEC is perfectly adapted to props with a Europlus or DIN loading capacity.

Only something this simple can be this fast and make the work process so incredibly reliable. And the labour requirements? 2 men to fit the large 180 x 180 cm TOPEC panel, whilst the 90 x 180 cm panel can be handled trouble-free by a single labourer. In other words, you cut costs.

Stripping as simple as erection

Formwork stripping proves to be just as straightforward and effortless as the original shuttering process. Exactly the same procedure but in reverse. Ease the prop (with the quick-release mechanism), lower it and detach it.



The TOPEC-Lift

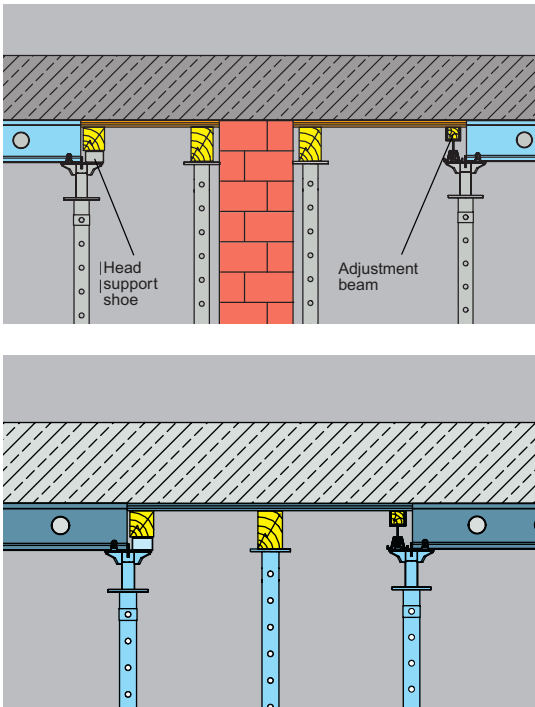
With this device developed by Hünnebeck, you can now shutter all cast-in-situ concrete slabs up to thicknesses of 50 cm and up to heights of 5.7 m even faster. The TOPEC Lift hydraulically raises the large 1.80 x 1.80 m panels and 1.80 x 0.90 m standard panels and positions them accurately and flush.

Automatic and labour-saving

The TOPEC Lift is just as labour-saving when it comes to stripping. Raise the platform, grip the panel, ease the prop, and lower the panel. A highly profitable investment, because for larger projects with upwards of 200 m² of slab surface, you can achieve unparalleled work rates of 0.2 h/m² and less (only for rental use in Germany).



The easy way to fill the gaps



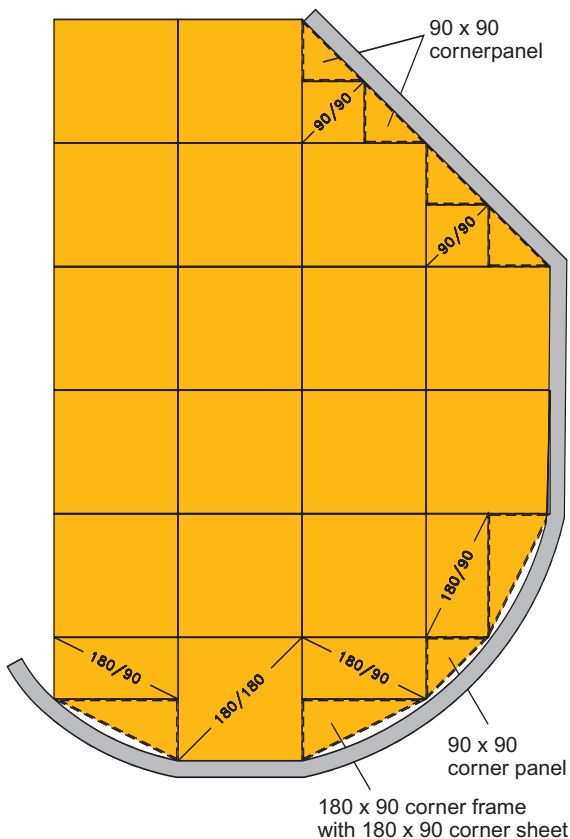
With the 90 x 180 adjustment panel or infill panels

In many cases, these are the simplest and quickest solutions. Adjustment panels with laterally extensible frames which can be withdrawn to precisely the desired size. Steplessly. Then you only have to fit the matching strip of shuttering skin (21 mm thick plywood) and nail it on. Or you choose the 180 or 90 cm long infill panels ranging from 45 to 75 cm in 15 width increments.

With the adjustment beam or head support shoe

A head support shoe, mounted on the TOPEC bearing, carries an 8 cm thick squared timber to which the adjustment shuttering skin is fastened.

The aluminium adjustment beam with an inlaid wooden lath is an alternative to the squared timber and head support shoe. It too is simply laid on top of the TOPEC bearing.



With the TOPEC transverse beam

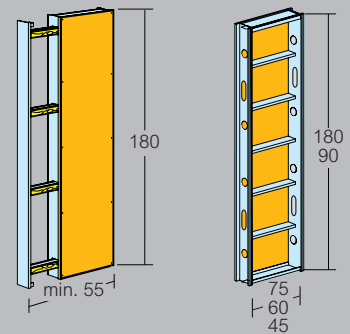
You can shutter around columns and other obstacles with a combination of adjustment beams and transverse beams—without the otherwise usual extra props or suspensions.

With corner panels and corner frames

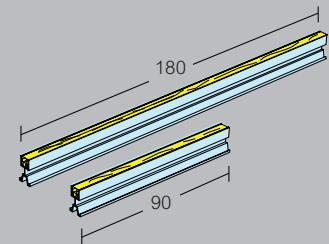
Even complicated slab surfaces can be shuttered with just a small number of infill areas within the system—by using corner panels and corner frames. The 180 x 90 cm corner frame has a detachable corner sheet. The advantage of this is that both sides of the frame can be used.

Accessories for adjustment.

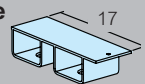
Adjustment panel Infill panels



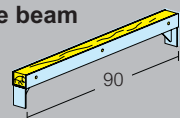
Adjustment beam



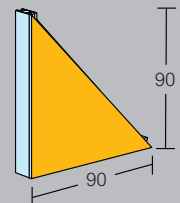
Head support shoe



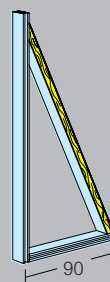
Transverse beam



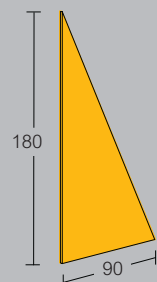
Corner panel



Corner frame



Corner sheet



Take your pick of props

Left: EUROPLUSnew tubular steel props

Right: Room at the top with the ALU-TOP prop system



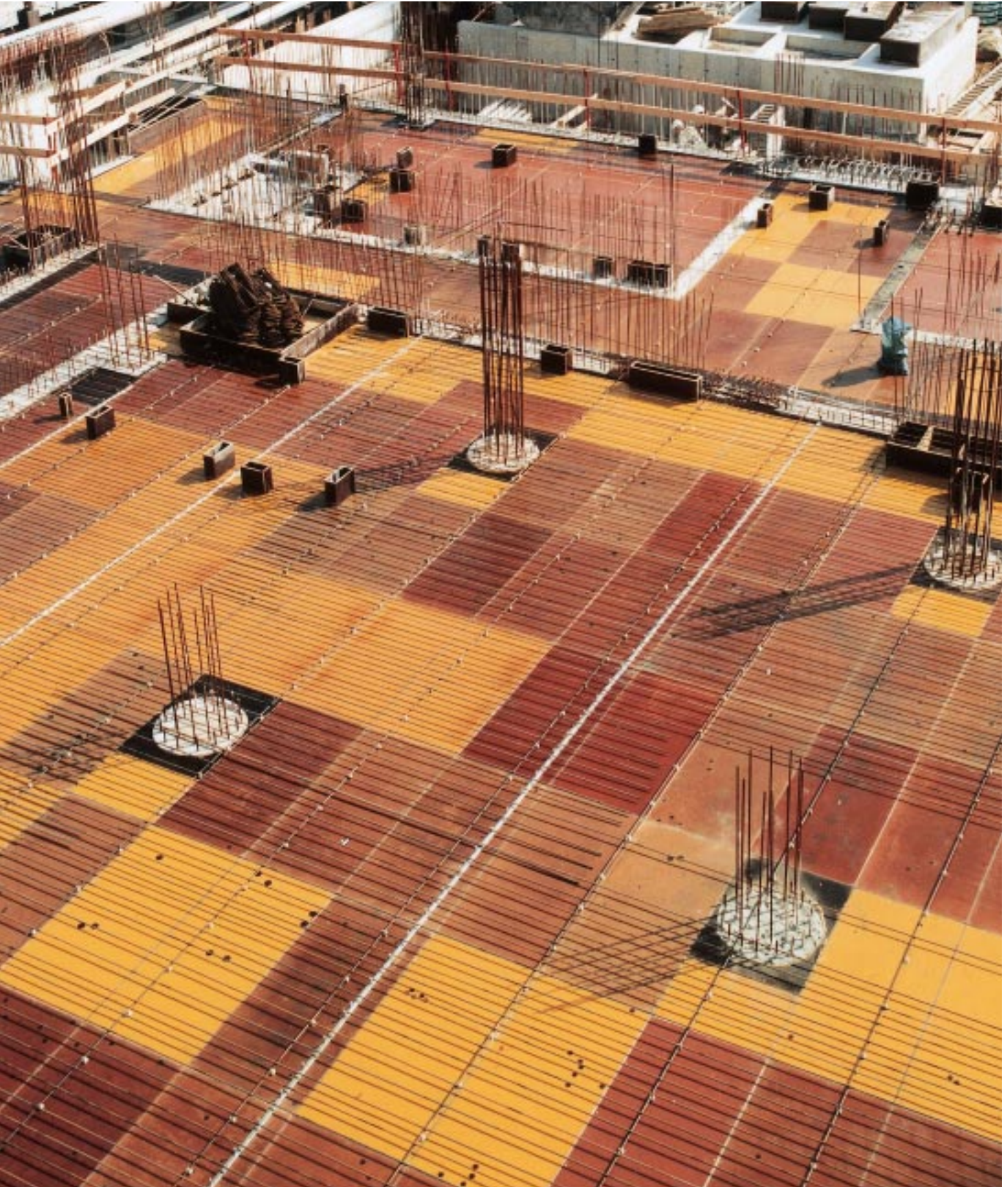
The TOPEC system is compatible with all the prop types from the Hünnebeck range. No compulsion to use a particular prop. The choice is entirely up to you.

EUROPLUSnew tubular steel prop

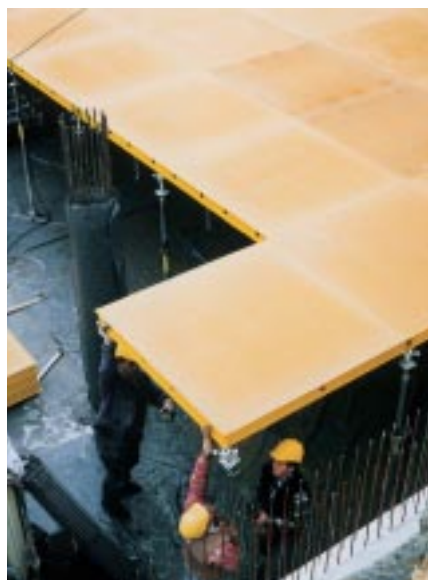
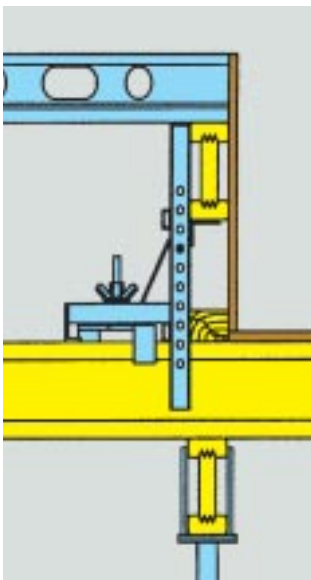
With five prop types in the 20 kN and 30 kN classes, you're a match for any job. The unique, patented quick-lowering mechanism makes lowering twice as quick as with conventional props. A single hammer blow is all it takes to lower EUROPLUSnew by 3 mm and ease the soffit formwork.

ALU-TOP prop system

The aluminum prop system comes out on top when it comes to versatility and value for money. A single prop with a low weight (max. 25 kg), also ideal within the TOPEC system. Any height from 1.95 cm can be steplessly set. As a tower with stiffening frames for heights of over 8 m.



**The system that systematically
masters any task**





Demonstrated by independent time studies

TOPEC is the quickest, lightest, easiest-to-handle and thus the most cost-effective soffit formwork system.

In a large-scale survey, the Institut für Zeitwirtschaft und Betriebsberatung Bau (IZB) carried out time studies on a variety of construction sites to measure the times required for certain tasks by the most common soffit formwork systems on the market.

On the basis of these readings, they arrived at guide times for three ground plans with different degrees of difficulty. And TOPEC soffit formwork from Hünnebeck achieved the best ratings on all three counts:

1. Shuttering time [h/m²]

2. Weight [kg/m²]

3. Number of parts employed [parts/m²]

Which goes to show that TOPEC—using just two basic parts—makes the work a lot easier and keeps the costs a lot lower. See for yourself.

Extract for areas over 200 m ² Room heights over 2.5 to 3.5 m	Shuttering time in h/m ²				Weight in kg/m ²				Parts/m ²			
	1	2	3	Av.	1	2	3	Av.	1	2	3	Av.
Ground plans 1, 2 and 3												
Hünnebeck Topec frame panel system	0.17	0.23	0.26	0.22	27.2	33.6	37.5	32.8	1.0	1.4	1.7	1.4
Drophead system, elements on longitudinal beams with cover strips	0.26	0.28	0.30	0.28	31.2	35.7	38.5	35.1	2.2	2.4	2.7	2.4
Drophead/beam/ element method	0.26	0.35	0.38	0.33	46.0	53.5	56.3	51.9	2.1	2.5	2.7	2.4
Drophead, props, beams, panels	0.23	0.27	0.27	0.26	27.2	36.0	37.6	33.6	1.5	1.8	1.9	1.7
Drophead system, elements between the longitudinal beams	0.29	0.31	0.35	0.32	34.7	42.5	43.4	40.2	2.6	3.2	3.0	2.9
20 cm timber beam grid system	0.32	0.34	0.40	0.35	47.9	51.7	57.7	52.4	3.0	3.3	3.5	3.3
20 cm timber beam flex system	0.25	0.31	0.32	0.29	41.4	47.5	47.4	45.4	2.7	3.2	3.1	3.0

Comparison of soffit formwork systems. Summary of the results.

The table shows the guide times for the various manually erected formwork systems. If the TOPEC Lift is additionally used, the TOPEC shuttering times are cut by a further 17 %.

Sample ground plan 1
16 x 10 m
without interior walls
TOPEC soffit formwork

Guide times ($\geq 200 \text{ m}^2$)

	h/m ²	kg/m ²	Parts/m ²
Other systems	0.27	38.1	2.4
TOPEC	0.17	27.2	1.0

Sample ground plan 2
26.5 x 9.8 m
with interior walls
TOPEC soffit formwork

Guide times ($\geq 200 \text{ m}^2$)

	h/m ²	kg/m ²	Parts/m ²
Other systems	0.31	47.5	3.2
TOPEC	0.23	33.6	1.4

Sample ground plan 3
15.0 x 10.0 m
with interior walls
TOPEC soffit formwork

Guide times ($\geq 200 \text{ m}^2$)

	h/m ²	kg/m ²	Parts/m ²
Other systems	0.34	44.5	2.8
TOPEC	0.26	37.5	1.7

TOPEC now with the ECOPLY Q form lining

For superior performance and economy



Easy handling

ECOPLY Q can be cut to size easily and neatly and nailed without splintering. It can be stripped just as easily and neatly and without any major traces – and with much less release agent than otherwise used on wooden linings.

Trouble-free cleaning

Very little concrete sticks to the totally smooth and neatly bonded plastic linings during stripping. The linings can thus be cleaned quickly and without great effort.

Superlative results

The immaculate surfaces yield a spotless, bright and shiny concrete face. The risk of reddish or yellowish brown discoloration, such as may occur with wooden linings, is excluded.

Long service-life

ECOPLY Q shows exceptional dimensional stability and resistance to moisture. The swelling of the form linings is thus a thing of the past. In addition, ECOPLY Q is extremely hard-wearing and has every prospect of a long service-life (up to three times as long as that of conventional form linings).

ECOPLY Q is also of course available independently of the TOPEC system.



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