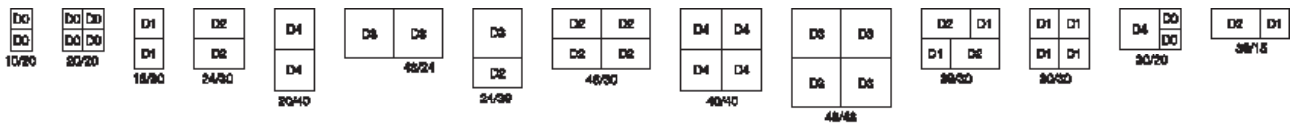




Box-out forms for slab apertures – economical, efficient, cost-saving

- High-quality coated cardboard, pressed and perforated in one sheet
- Strong due to internal stiffening
- Concrete cannot enter the void
- All types are 240 mm high
- Can be site-cut to reduce height, as required
- Easy stripping by pulling the hand holds on the cover
- For larger apertures use steel box-out shutters (see page 69)
- The opening becomes bigger by combining several box-out forms

Possible combinations:



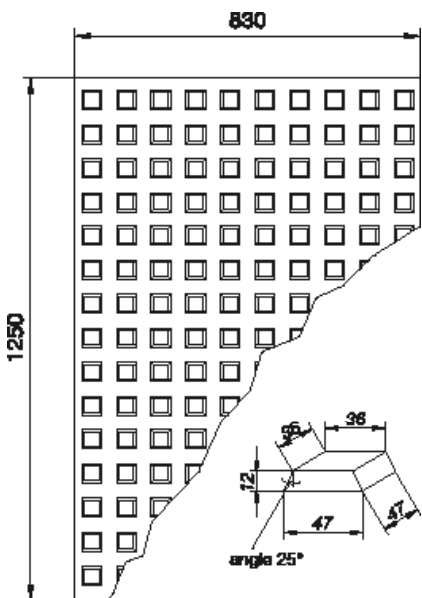
Box-out forms for slab apertures

Art. no.	Type	Size (bottom part) cm	Carton contents piece	Weight kg/carton	Cartons/pallet	Weight kg/pallet
SBOXD0	D 0	10 x 10	50	9	20	200
SBOXD1	D 1	15 x 15	50	14	15	230
SBOXD2	D 2	15 x 24	50	19	15	305
SBOXD4	D 4	20 x 20	50	21	10	230
SBOXD3	D 3	24 x 24	50	26	10	280

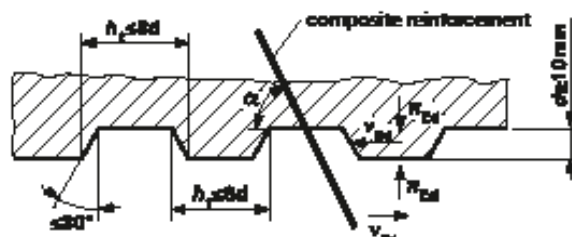
Joint profile former

made from plastic, 2 mm thick

Art. no.	Dimensions cm	Profile height mm
FFP12083	125 x 83	12



- Creates the optimum concrete surface for the absorption of shear forces in construction joints
- Replaces trapezoidal strips
- Can be used repeatedly
- Can be cut to size on-site
- The joint profile fulfils the requirements according to DIN 1045-1:2008-08.
- Maximum category: "interlocked".



Box-out shutters

Box-out shutter height cm		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	Steel grille base	
a x b cm	Wound-off length cm																				
20/20	80																				
25/25	100																				
30/30	120																				
35/35	140																				
40/40	160																				
45/45	180																				
50/50	200																				
55/55	220																				
60/60	240																				
65/65	260																				
70/70	280																				
75/75	300																				
80/80	320																				
85/85	340																				
90/90	360																				
95/95	380																				
100/100	400																				

Calculate prices for intermediate heights.
Box-out shutters unmounted including sheet metal screws.

Box-out shutter mounted, article number KSMONT
Box-out shutter unmounted, article number KSUMON



Self tapping screw

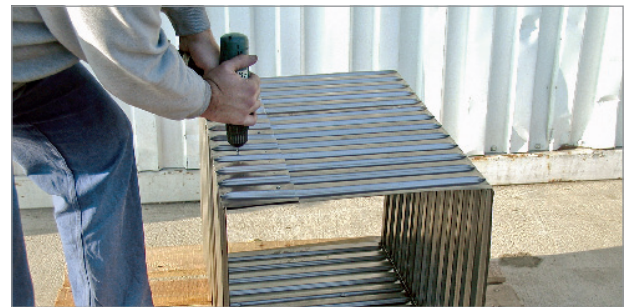
Art. no.	Pack size
SBKBSS	50 pcs./pack

Fixing angle (nailing angle four-sided)

Art. no.
SBKNW

Benefits of the unassembled version:

- No freight and storage problems
- Easy transport to site
- Easy and quick assembly with the included self tapping screws using pre-drilled holes
- Due to shutter corners being pre-punched in the works, folding the shutter together is extremely simple



Pre-assembled Box-out shutters



Pre-assembled Box-out shutter with bracing



Instead of bracing on site, we can supply the pre-assembled box-out shutter complete with bracing.

Price on application.

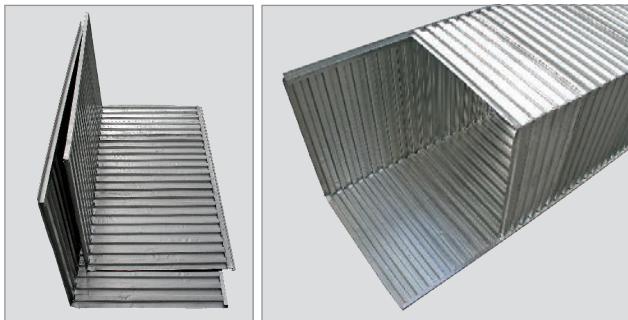
Joint category "interlocked" – the shutter profile fulfils the maximum requirement for a joint according to DIN 1045-1. Maximum category: "interlocked".

L-shaped box-out

Box-out shutter height cm		150	160	170	180	190	200	210	220	230	240	250
a x b cm	Wound-off length cm											
70/70	280											
75/75	300											
80/80	320											
85/85	340											
90/90	360											
95/95	380											
100/100	400											
110/110	440											
120/120	480											
130/130	520											
140/140	560											
150/150	600											
160/160	640											
170/170	680											
180/180	720											

Calculate prices for intermediate heights.
These box-out shutters must in general be stiffened at site.

Box-out shutter L-angle, article number KSLWINKEL

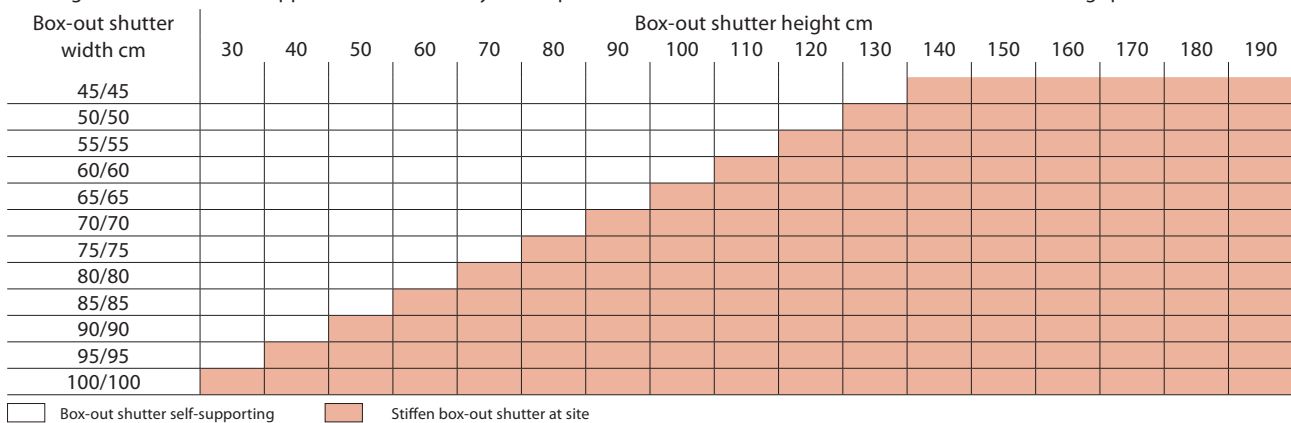


Advantages of L-shaped box-out:

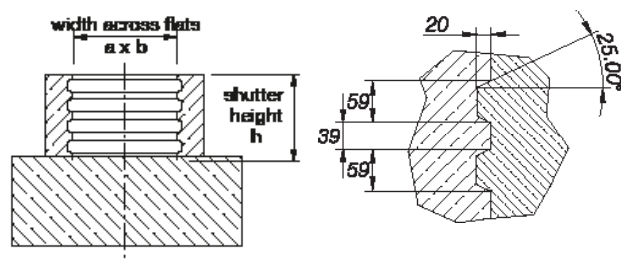
- Very large sizes are possible
- Items are supplied to site as two separate L-angles
- Quick and easy assembly without additional fixings
- No freight and storage problems

Stiffening chart

Values given in the chart are approximate values only and depend on the actual at-site conditions and on the concreting speed



All measures are internal dimensions (when ordering always indicate internal dimensions).
Assume a section depth of 20 mm when designing reinforcement.
Manufacturing tolerances: ± 20 mm
Shutter heights can be selected in increments of 50 mm.
Any rectangular shapes is available; prices depend on size.
Stable trapezoidal section – there is usually no need for bracing.



Joint category "interlocked" – the shutter profile fulfils the maximum requirement for a joint according to DIN 1045-1. Maximum category: "interlocked".