

Kraft board divider inserts

SLOTTED GRID · TOOL-FREE · GLUE-FREE

CP-DIV-0909 3 × 3, 9 cell

CP-DIV-0916 4 × 4, 16 cell

PROJECT	CATALOG NO.	TYPE	DATE
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PRODUCT DESCRIPTION

Slotted kraft strips that interlock into a cell grid without glue, staples or tape. The strips ship as a flat bundle and go together in seconds at the bench, so the insert costs almost nothing to hold in stock. Cell walls run the full internal depth of the carton, which means that in a loaded case nothing touches anything — not the next item, and not the carton wall.

Construction

- Four strips at 0909, six at 0916; two lengths, no other parts
- Long strips slotted down from the top edge, short strips slotted up from the bottom
- Slot width 2.8 mm against a 3.0 mm board caliper — the joint is an interference fit
- Slot depth is exactly half the strip height, so the two sets finish flush at 300 mm

Board and materials

- 32 ECT B-flute kraft, 3.0 mm caliper, uncoated both faces
- Same grade and same liner as the CP-CTN carton it is cut for
- No glue, no staples, no tape and no metal anywhere in the set
- Strips are die-cut, not saw-cut; the slot mouth is chamfered so it starts by hand

Performance

- Cell load 2.3 kg, taken on the cell walls rather than on the carton
- The insert does not raise the carton's rating — nine cells at 2.3 kg is 20.7 kg into a 30 kg carton
- Joint pull-apart 34 N per joint, dry, seated home
- A joint left short of the slot base carries roughly half that and is the usual failure

Assembly and handling

- Four joints at 0909, nine at 0916; no tool and no consumable
- Made up at the bench in about twenty seconds after practice
- Comes apart flat for a return leg and goes back together unchanged
- Damp board loses the interference fit; the joint slides rather than bites

Printing

- Water-based flexo direct to uncoated kraft, one colour, one face
- Cell numbering and orientation marks are the usual print on this family
- Print stops 8 mm short of every slot; ink in a slot changes the fit
- Plain kraft is the stock condition and carries no set-up charge

Tolerances

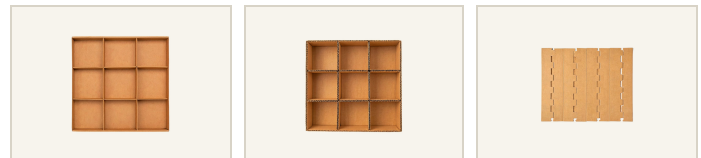
- Strip length ± 1.5 mm — a long strip will not drop into the carton
- Strip height ± 1 mm
- Slot width ± 0.15 mm; this is the tightest tolerance in the range
- Slot position ± 1 mm from the strip end

Applications

- Glassware, jars and bottles carried several to a carton
- Mixed orders where the items are not uniform enough for a moulded tray
- Anything taller than a tray cavity, since the cells run the full carton depth
- Returns and rental pools, where the insert comes back flat with the carton



Three-quarter, assembled



Top, assembled · Top, angled · Flat strips

SPECIFY

The insert does not make the carton stronger. It separates what is inside it, and that is a different job from carrying weight. Cell walls take the load of the item in their own cell and pass it to the carton base; the carton's rating is what it was before the insert went in. If the total is close to the carton limit, the answer is a second carton, not a stiffer divider.

32 ECT

TOOL-FREE

GLUE-FREE

MADE TO CARTON

AT A GLANCE

Format	Slotted board divider
Grids	2 – 9 cell and 16 cell
Board	32 ECT B-flute kraft
Strips per set	4 or 6
Assembly	Tool-free, glue-free
Cell load	2.3 kg

See also. Every mark this family holds, what each one certifies and the recycled figure by weight are on the features and benefits sheet.

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BUILD THE CODE

SERIES	GRID	BOARD	PRINT	PACK
CP-DIV	0909 3 × 3, cells 133 × 99 mm	B 32 ECT B-flute	K Plain kraft	50 Carton of 50 sets
	0916 4 × 4, cells 99 × 74 mm	—	1C One colour, one face	PL Pallet, 16 cartons per layer
			NO Cell numbering, adds to 1C	—

Example

CP-DIV-0909-B-1C-50

Nine cells at 133 × 99 mm, full carton depth, 32 ECT B-flute kraft, one colour water-based flexo on one face, cartoned fifty sets.

- The four digits are not a size. A divider has no footprint of its own — it takes the carton's. The first pair indexes the carton the set is cut for, and 09 is CP-CTN-RSC1 at 406 × 305 × 305 mm. The last pair is the cell count.
- A set cut for a different carton in the line gets a different first pair and the same cell logic. Ask for it by carton, not by cell dimension.
- NO is a suffix on 1C rather than a print option on its own: CP-DIV-0909-B-1C-NO-50.

SIZES, MINIMUM ORDER AND LISTINGS

CODE	INTERNAL SIZE, L × W × D	MINIMUM · LEAD	LISTINGS
CP-DIV-0909	3 × 3, 9 cell	250 · 6 days	
CP-DIV-0916	4 × 4, 16 cell	250 · 6 days	

Minimum order and lead time are held against each grid in the catalogue record and are shown in the table above. Lead time runs from artwork approval, not from order receipt.

ACCESSORIES, ORDERING

CODE	ITEM	MINIMUM	LEAD
CP-CTN-RSC1	Shipping carton, RSC	250	5 days
CP-VF-CR18	Crinkle void fill	4 cartons	2 days
CP-TP-G70	Water-activated paper tape	12 rolls	3 days

What each accessory is for, and how it goes in, is on the assembly instructions.

CUSTOM SIZES

Outside the two grids. Any rectangular grid that divides the carton evenly can be die-cut from the same board at a 2,000 minimum and a 3 week lead, because a divider needs a cutting die and nothing else — no forming tool, no mould. Uneven grids are possible and cost the same, but check the smallest cell against the item before committing: a cell narrower than about 60 mm is quicker to load with fill than with a wall.

ARTWORK AND PROOFING

	REQUIREMENT
Supply format	Vector PDF or AI, fonts outlined, 1:1 scale
Layout	Strip template issued by CambiumPak on order. Artwork is laid to the template, which carries every slot position whether or not it is printed
Colour	One colour to a signed drawdown. Water-based flexo on uncoated kraft shifts warm; screen proofs are indicative only
Minimum type	7 pt positive. Board this side of a slot flexes under the plate and fine type breaks up
Keep-clear	8 mm from every slot, 6 mm from every strip end
Cell numbering	Numbers are set on the long strips only, reading left to right from the carton's manufacturer's joint
Proof round	One PDF proof, one die-cut sample on request; a sample round adds 4 days to the lead

Artwork received after 14:00 is logged the next working day. The lead time in the table above runs from artwork approval, not from the day the file arrives.

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MECHANICAL PERFORMANCE, BY GRID

	CP-DIV-0909	CP-DIV-0916
Grid	3 × 3, 9 cell	4 × 4, 16 cell
Cell opening	133 × 99 mm	99 × 74 mm
Cell depth	300 mm	300 mm
Strips per set	4	6
Joints per set	4	9
Board grade	32 ECT B-flute	32 ECT B-flute
Board caliper	3.0 mm	3.0 mm
Slot width	2.8 mm	2.8 mm
Joint pull-apart	34 N	34 N
Cell load	2.3 kg	2.3 kg
Set weight	310 g	420 g
Make-up time, after practice	20 seconds	38 seconds

TEST CONDITIONS

- The two grids differ in cell count and in nothing else. Same board, same slot, same joint and the same load per cell — the sixteen is not the stronger set, it is the finer one.
- Cell load is per cell and does not add up to a carton rating. Nine cells at 2.3 kg is 20.7 kg, which sits inside the 30 kg CP-CTN-RSC1 rating; sixteen cells at the same figure does not.
- Joint pull-apart is measured on a joint seated to the base of its slot. A joint left half seated carries roughly half the figure, and it is the only failure this product really has.
- Every figure on this sheet is inferred from the nearest ratified family member. Nothing here has been through a test house.

RELATIVE CAPACITY

Cells per set

CP-DIV-0909		9
CP-DIV-0916		16

Make-up time at the bench

CP-DIV-0909		20 s
CP-DIV-0916		38 s

SERVICE AND STORAGE

Service temperature	−20 °C to 60 °C
Storage humidity	40 – 60 % RH
Wet strength	None – damp board loses the slot fit
Shelf life, flat	24 months in the original carton

BOARD SPECIFICATION

Board grade	32 ECT B-flute kraft
Assembly	Interlocking slot, tool-free
Fits	CP-CTN-RSC1, 406 × 305 × 305 mm
Cell load	2.3 kg per cell

CHOOSING A GRID BY CONTENT

CONTENTS	GRID	SPECIFY
Up to 9 items, under 133 × 99 mm each	0909	Bottles, jars and stemware carried nine to a carton
Up to 16 items, under 99 × 74 mm each	0916	Smaller jars, vials and sample glass
Fewer than 6 items, any size	Neither	A carton and CP-VF-CR18 costs less than the bench time a grid takes
Round, uniform, under 70 mm	Not this family	Specify CP-PLP-T06 or T12 — a cavity seats a round item better than four flat walls do

Size to the widest point of the item, not to its base. A cell is a straight-sided opening the whole way down, so an item that flares at the shoulder has to clear the cell at the shoulder or it will not go in at all.

TEST METHODS

FIGURE	METHOD	CONDITIONING
Joint pull-apart	Two mated strips drawn apart along the slot axis at 25 mm per minute, load at separation	23 °C / 50 % RH, 24 h
Cell load	Dead weight on a 100 × 100 mm platen in one cell of a made-up set standing in its carton, held 24 h	23 °C / 50 % RH, 24 h
Slot width	Pin gauge at three points per slot, board uncompressed	23 °C / 50 % RH, 24 h
Make-up time	Bench timing from flat set to grid seated in the carton, median of twenty, after practice	Bench ambient

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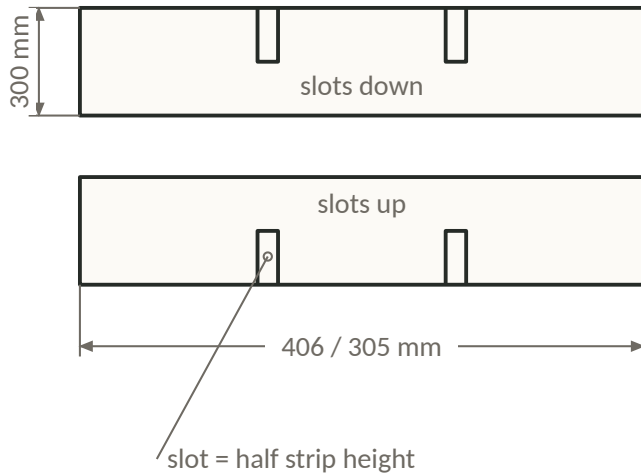
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CP-DIV-0909 3 × 3, 9 cell

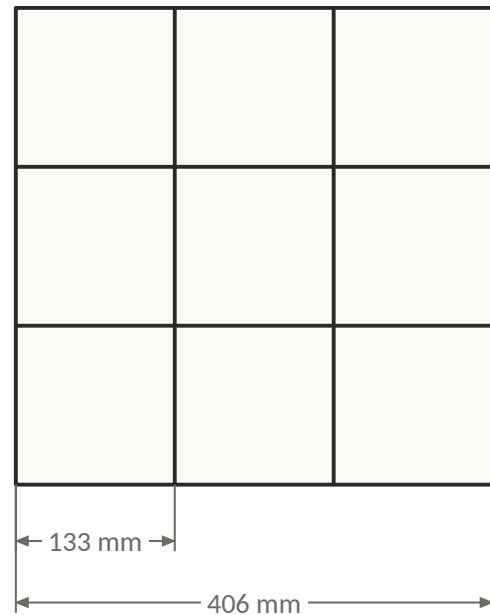
CP-DIV-0916 4 × 4, 16 cell

ASSEMBLED, INTERNAL

STRIPS, SLOTTED



ASSEMBLED, 3 × 3



no glue, no staples, no tape · cut to CP-CTN-RSC1, 406 × 305 × 305 mm

Every dimension on this sheet is internal, in millimetres, in length × width order. Cell openings are measured between board faces with the joints seated home, so they already account for the strips standing in them. Strip sizes are flat die-cut sizes and are given for print planning only.

MEASUREMENTS

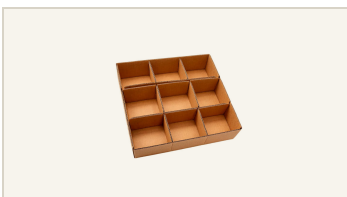
Grid, 0909	3 × 3 cells
Cell opening, 0909	133 × 99 mm
Grid, 0916	4 × 4 cells
Cell opening, 0916	99 × 74 mm
Strip height	300 mm
Strips per set	4 · 6

FLAT STRIPS AND PRINT

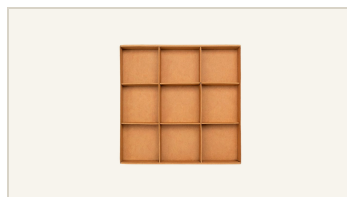
Long strip, both grids	406 × 300 mm
Short strip, both grids	305 × 300 mm
Slot width	2.8 mm
Slot depth	150 mm
Cell opening, 0909	133 × 99 mm
Cell opening, 0916	99 × 74 mm

PALLETISATION

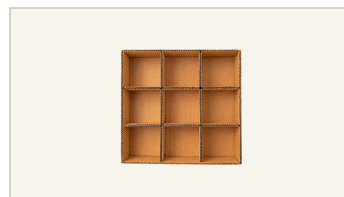
Pallet	1200 × 1000 mm
Cartons per layer	16
Layers per pallet	6
Pallet height, wrapped	1,020 mm



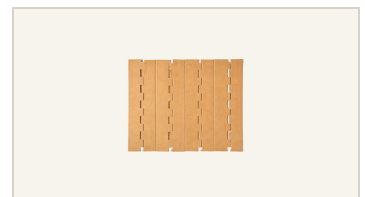
Three-quarter, assembled



Top, assembled



Top, angled



Flat strips