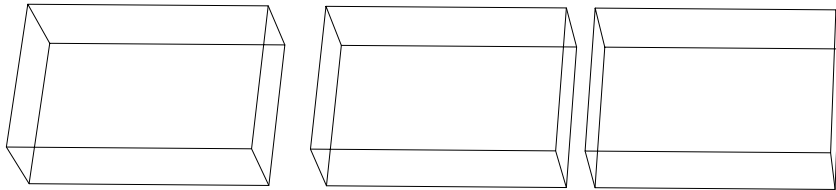
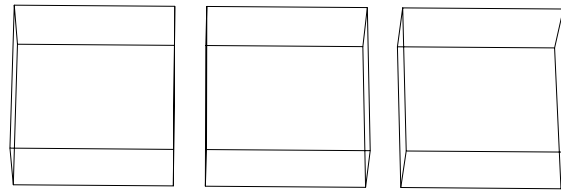


MDF 25mm

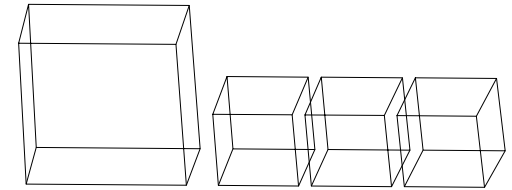
3x3SL



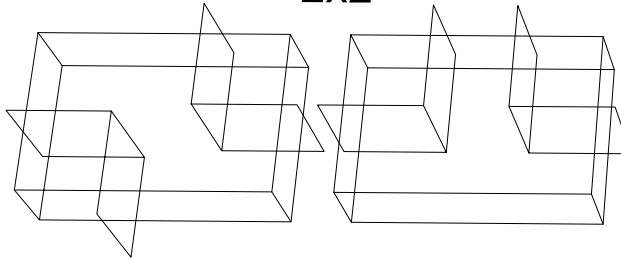
4x2SL



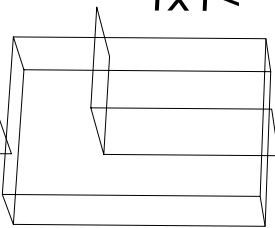
3x1SL



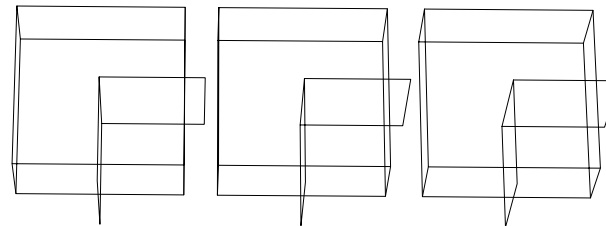
2x2<



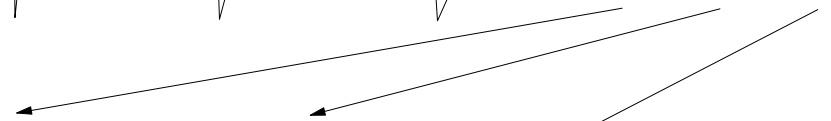
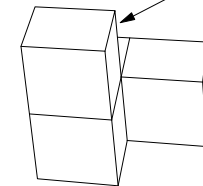
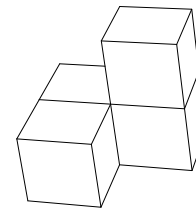
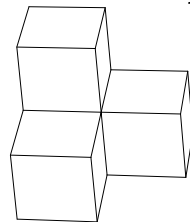
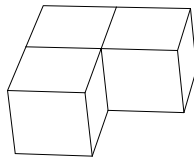
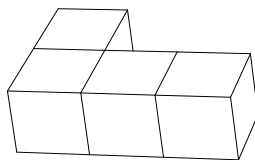
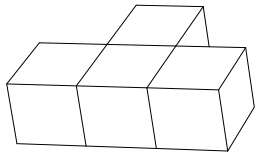
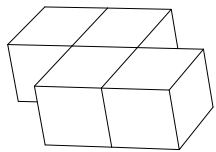
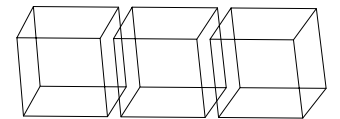
1x1<



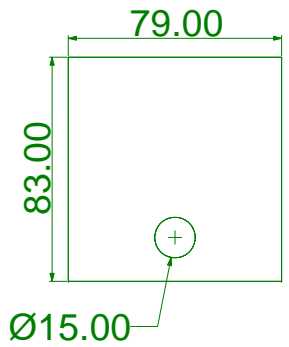
4x1<



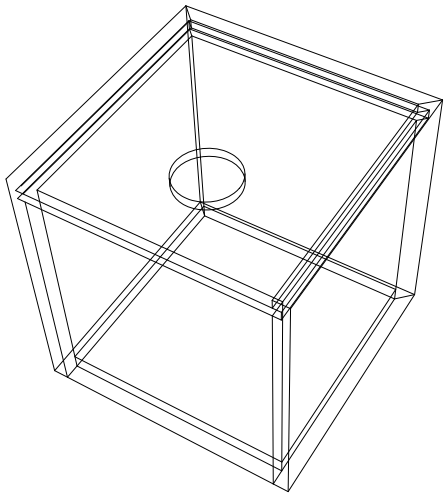
3x
mount with clamps



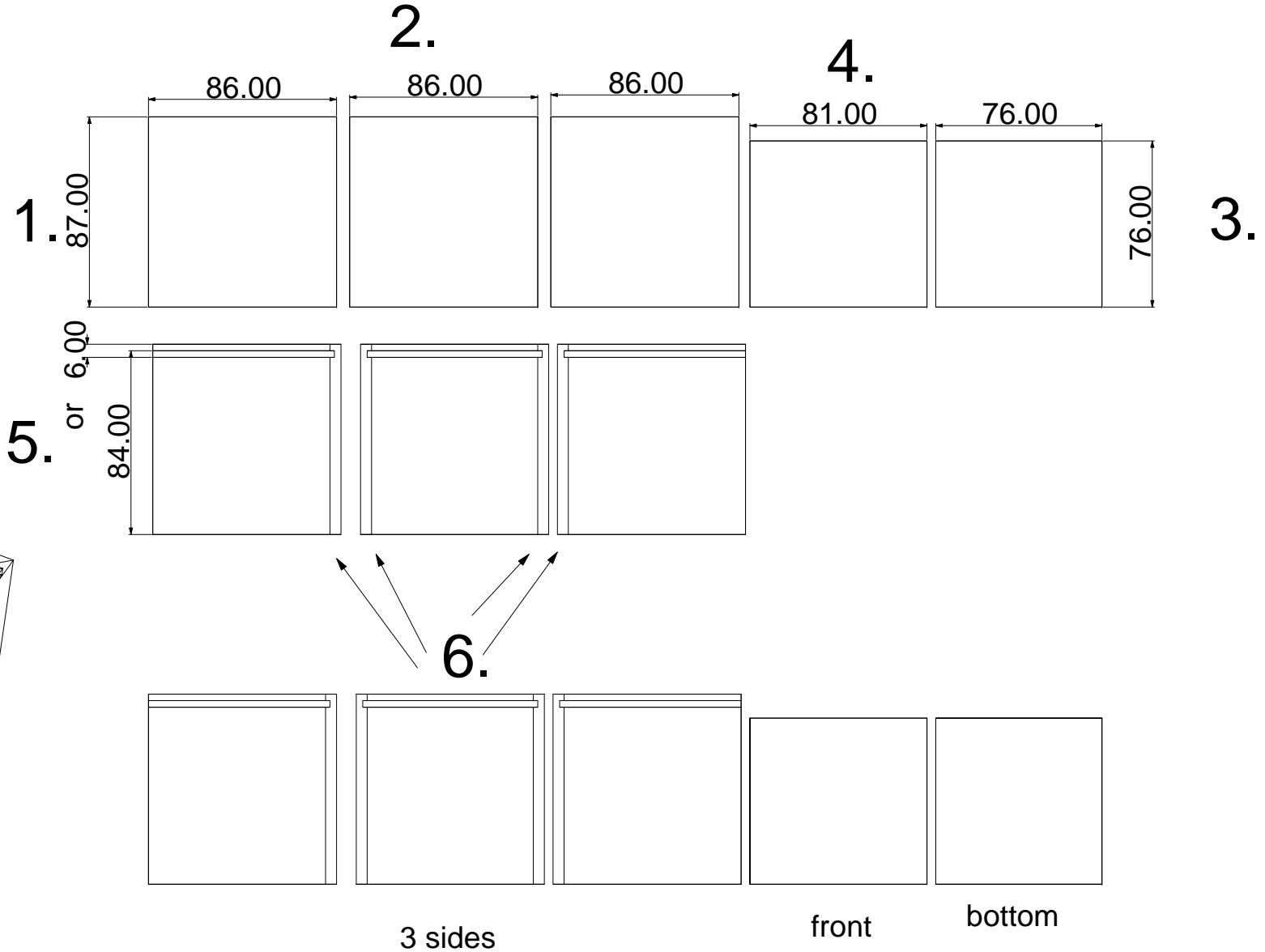
MDF
2.5mm



Plexi
2.5mm



MDF
5mm



Epilog Legend EXT 36 60 Watt
X = 914.4 mm
Y = 609.6 mm

Trotec 120 Watt
X= 1245mm
Y= 710mm

Paper, cardboard,
wood up to 5mm
(Flammable materials)
Acryl glass up to 5mm
(Melttable, fusible materials)
No PVC!! (Acid damp!)
Flat Boards

No own tests with
non approved material!
Consult the list of allowed
Materials.

Cut
Vectors defined as hairlines
in the print settings
No double lines



Workflow

A new Idea –

Before to draw, think about the end of the digital chain: Choose Your material,
define sheet dimensions, ... -

Translate in 2D-Geometry – Output formatted as Vectorlines as Hairlines

Cost: SFr 30.-/h = -.50/min from insertion to extraction of the stick.

Model against money.

Please take Your material with you - after cutting, put it out yourself and clean
up. Put the garbage in the outside container.

Please mount your model in another room (BU 151b, BU 154).

**Reservations not over 3hours - with indication of mail and phonenumber
until eve 17:00h per Server:**

<https://sharepoint.bfh.ch/ahb/services/alab/default.aspx>

Please deregistrate, if You are prevented for any reason

Tasks for school first, external tasks have special prices.

Who masters drawings, cuts

Choose your individual CAD-Software to create your design

- Export data as: *.dwg, *.dxf, *.3dm, *.igs
- Lines are closed and joined
- Ungroup objects, no blocks
- No double-lines: Waste of time + fire danger!
- Only vector lines ≤ 0.025 mm / 0.085 pt or **hairlines** (print settings) are cutten.
No cutting allowance needed – cutting width is about 0.1mm.
- **1 Layer per operation (sheet to cut, to scratch/text)**, several layers per file
- Scratching for folding can also be a dotted + cutted line
- One sheet upon the other inside maxdim of cardboard
- The position of the drawing is in a rectangle of X=914.4 mm Y=609.6 mm (Epilog) or X=1245mm Y= 710mm (Trotec).
- The corner topleft has the coordinate 0,0,0 in all coordinate systems
- The scale is 1:1 to the model in mm.

We print (cut) Your data with Rhino.

Data

Continuity of Curves

Not continuous: no transition, no matching endpoints

Position, first grade: line with kinks, two endpoints falls together, Polylines

Tangency, second grade: quadratic spline, radial curvature, endpoint + 1 point on each side aligned on one line

Curvature, third grade: cubic spline, endpoint + 2 points on each side aligned on one line for more smoothness

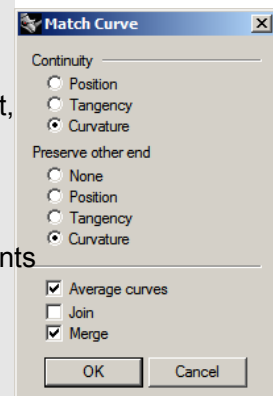
Average curves: both curves with the same strength

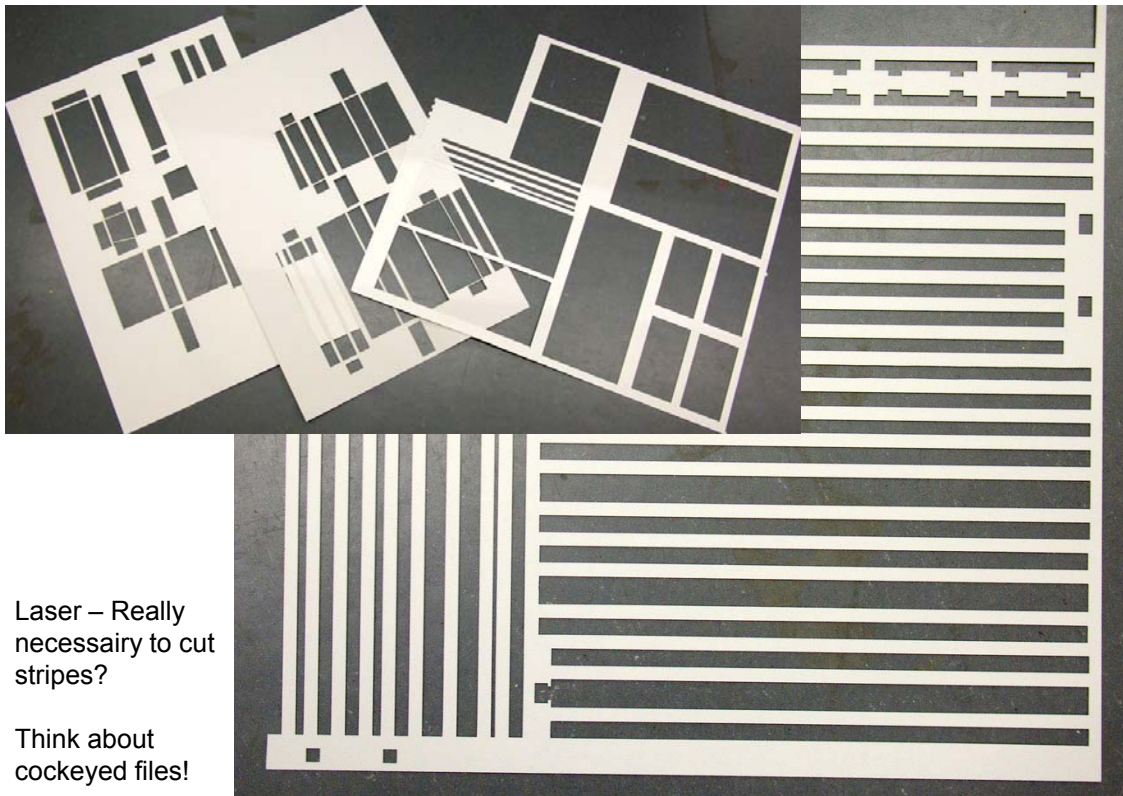
Join: Aggregation of two curves with common endpoints to 1 Object, stays divisible in segments

Merge: Aggregation to 1 Object, indivisible

Group: Aggregation of geometrical objects without common endpoints to 1 Object

<http://skript.wuthri.ch/abb/a55kurvenstetigkeit.htm>





Laser – Really necessary to cut stripes?

Think about cockeyed files!

The joinery (BU 151b) is open all working days with ID-card

The joinery machines works from 7:00 am to 10:00 pm (security!)

Saturday from 8:00 am to 04:00 pm

Sunday no working machines

You can «rent» individual tool sets by André Marti for max a week.

No fee, but You pay missing tools.

Use BU 154 and BU 151b to assembly models.

Security

Follow the Basic security instructions: soma-cube + box

No Smoking, no alcohol, no fooling around, no wide cloths.

Be concentrated when working with machines.

No garbage on floor: Clean up.

Joinery