This is a kit of parts to help you construct your Maker Library. It is an open source design by Alon Meron commissioned for the Maker Library Network. The shelving system (see p.5) is an essential requirement for each Maker Library. There are other designs such as seating and display furniture but these are optional. We encourage each Maker Library to put their own individual stamp on the other elements, including the gallery and furniture in their space, although do feel free to use these designs if you wish.

The Maker Library Network is a new initiative that promotes collaboration and knowledge-sharing between designers and makers in the UK and South Africa. Commissioned as part of Connect ZA and supported by the British Council, the Maker Library Network was created by Daniel Charny and developed with From Now On.

Maker Libraries are creative spaces that combine reading, showing and making. They are defined by three elements: a library, a makespace and a gallery. Librarians in each country are able to share and adapt the MLN principles for their local conditions and location; whether in their studio, in the corner of a cafe, or in a purpose built vehicle. Each Maker Library can connect over an online platform which also provides access to designs and mentoring resources.
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Visit www.makerlibrarynetwork.org for more information.
A MAKER LIBRARY

THE MINIMUM YOU NEED TO BUILD AND HAVE PRESENT IN YOUR SPACE IS AS FOLLOWS:

- The Maker Library bookshelves (see pp.4-8)
- The words “Skills” and “Imagination”

- The Maker Library Network explainer as a poster or flyer (PDF included)
- A place to photograph books and somewhere to display a “feature” Book.

- Your Library name (i.e. Maker Library: Bank)
- A gallery area or somewhere to display another Maker’s work (this can be of your own design or you can use the designs included)

- The “Library”, “Gallery” and “MakeSpace” icons

www.makerlibrarynetwork.org
2 PART LIBRARY SETUP

- LAPTOP DESK/WORK STATION
- BOOK SHELF
- ICON BOX
- NOTICE BOARD
- GALLERY *Optional*
- BENCH *Optional*
- “SKILLS” SIGN
- BOOK STORE
- FEATURED BOOK
- “IMAGINATION” SIGN

www.makerlibrarynetwork.org
MAKE: STEP 1

LIST OF QUANTITIES

First things first...
Calculate and get all the material you are going to use for the library. Here is an estimation of all you’ll need to get started...

SCREWS:
1) 4.5 x 60mm  ➔  100 pcs
2) 3.5 x 50mm  ➔  600 pcs
3) 3.5 x 25mm  ➔  200 pcs

TIMBER:
1) 33mm/33mm aprox.  ➔
   105M + 20% contingency
2) 15mm/15mm aprox.  ➔
   35M + 20% contingency

PLY/MDF SHEET:
1) Min. 9mm  ➔  2 Sheets

NOTES:
The dimensions of timber sections will always vary. The timber section specified here is approximate. The timber dimension you use may affect the size of the screws.
NOTE 1:
Dimensions are based on 33x33mm section. Different sections will require different rebate dimensions.

NOTE 2:
Router table is recommended for rebate detail. Can also use bench saw or jigsaw.
**MAKE: STEP 3**

**CONSTRUCT**

**NOTE 1:**
Pilot holes are important.

**NOTE 2:**
Where possible (once location is determined) glue all joints. This will make the structure more rigid and stable for the long term.

*Gluing the joints in the 2d frames but not the connectors is a good compromise. It enables flat packing and reassembling and still provides added rigidity.*

---

**2D FRAME**

**2D FRAME** - Remember:

\[ \text{dimension of 2D frame} = \text{Length of timber} + 1 \times \text{thickness} \]

**CONNECTORS**

**SURFACE**

fits inside 2D frame

3.5 x 50mm

3.5 x 25mm

3.5 x 25mm
NOTE:

When assembling frames together screw ALL points where frames overlap. This makes the structure more rigid and stable.

Frames can be constructed into each other so they are interlocking.
LIBRARY PART 1

BASIC UNIT

250mm

1033mm*
Actual timber length:
1000mm + 33mm = 1033mm

500mm

967mm*
Actual timber length:
1000mm - 33mm = 967mm

1000mm is shelf outside measurement and library frame inside dimension

LIGHT:
Recommended: lamp that can clamp on to shelving

BATTON
to support books. Screw from back side

* 1000mm is shelf outside measurement and library frame inside dimension
BOOKSTORE

300mm

600mm

670mm
FEATURE BOOK

WEBCAM

LIGHT:
Recommended: lamp that can clamp on to shelving

BATTON
to support books

500mm 600mm 100mm

300mm

700mm

300mm
NOTICEBOARD

EXAMPLE

NOTES:

100mm

400mm

600mm
“IMAGINATION” & “SKILLS”

The word “SKILLS” & “IMAGINATION” made using your own technique.
LAPTOP DESK/WORK STATION

Dimensions:
- Width: 800mm
- Depth: 500mm
- Height: 150mm
ICON BOX

LIBRARY ICON

EXAMPLE

250mm 250mm 250mm
OPTIONAL ELEMENTS

LIST OF QUANTITIES

SCREWS:
1) 4.5 x 60mm → 20 pcs
2) 3.5 x 50mm → 200 pieces
3) 3.5 x 25mm → 40 pieces

TIMBER:
1) 33mm/33mm approx. → 15M + 20% contingency
2) 15mm/15mm approx. → 6M + 20% contingency
3) 45mm/45mm approx. → 15M + 20% contingency

SCREWS:
1) 4.5 x 60mm → 20 pcs
2) 3.5 x 50mm → 130 pieces
3) 3.5 x 25mm → 20 pieces

TIMBER:
1) 33mm/33mm approx. → 22M + 20% contingency
2) 15mm/15mm approx. → 2M + 20% contingency
Closed cell foam: 50mm thick

Timber dimensions: 45/45mm

Install ply surface slightly recessed so foam can fit inside recess

**This can be of your own design**
Dimensions may vary to fit exhibits

**EXAMPLE**

*This can be of your own design*
LIBRARY CONSTRUCTION KIT

Alon Meron

Koby Barhad

Librar EXamp le

Maker Library: Machines Room @ LimeWharf, London

www.makerlibrarynetwork.org
GALLERY

Top left: Gallery display in MLN Caravan: GRAS Studio, Edinburgh
Top right: Gallery display at Maker Library: Thingking, Cape Town
Bottom: Maker Library: Guild, Cape Town
VARIATIONS

Top left: “Skills and Imagination” – Maker Library: Thinkking, Cape Town
Middle: Turned frame sections – Maker Library: Thinkking, Cape Town
Top right: MLN Caravan: GRAS Studio
Bottom: Maker Library: MAKlab, Glasgow

Top: www.makerlibrarynetwork.org
Bottom: CONNECT/ZA