



general and to whoever wishes to use this project.

(I) If you want to check or reroute a specific trace, it is recommended to turn it on at View > Contrast mode > Check "High Contrast Mode" icon column.

(II) It is recommended that the user has some knowledge in Git usage for the Acheron Project.

(III) All footprints are available either through KiCad's native library (<http://github.com/Gondolindrim/AcheronLibrary>). To facilitate the library is generally added at the \${KIPRJMOD} folder as a Git submodule PCB repository, run:

```
$ git submodule init --update
```

To update the submodules.

(IV) For detailed information, check the Acheron Docs page for the <http://gondolindrim.github.io/AcheronDocs/hammerhead/intro.html>

MINIMUM VALUES

TRACE WIDTH: 6 thou (approx. 0.15 mm)

MINIMUM CLEARANCE: 6 thou

VIA HOLE SIZE: 12 thou (approx. 0.3mm)

VIA DIAMETER: 20 thou (approx. 0.5mm)

VIA-TO-VIA AND VIA-TO-TRACE CLEARANCE: 6 thou

SILKSCREEN CHARACTER HEIGHT: 25 thou (see General Observations)

SILKSCREEN CHARACTER TRACE WIDTH: 6 thou

TRACE-TO-EDGE AND VIA-TO-EDGE DISTANCE: 8 thou

RECOMMENDED VALUES

These values were the default values used when possible.

TRACE WIDTH: 10 thou

MINIMUM CLEARANCE: 8 thou

VIA HOLE SIZE: 16 thou (approx. 0.4mm)

VIA DIAMETER: 32 thou (approx. 0.8mm)

VIA-TO-VIA AND VIA-TO-TRACE CLEARANCE: 8 thou

SILKSCREEN CHARACTER HEIGHT: 32 thou

SILKSCREEN CHARACTER TRACE WIDTH: 8 thou

TRACE-TO-EDGE AND VIA-TO-EDGE DISTANCE: 8 thou

GENERAL OBSERVATIONS

(i) The grid unit (1U) value used was $3/4" = 19.05\text{mm}$

(ii) The PCB was designed to fit the standards of the PCBWay manufacturer. Be aware that capabilities may vary among manufacturers, so be sure they support the minimum values used.

(iii) All parts were quoted on the LCSC supplier (<https://lcsc.com>). Also be sure to check with your parts supplier if they have all the parts and change parts and footprints accordingly to availability

(iv) You can always contact Gondolindrim through:

- HammerheadPCB's GitHub page: <http://github.com/Gondolindrim>

- E-mail: alvaro.augusto.volpato@gmail.com

- Discord: Gondolindrim#9738

- Reddit: [/u/gondolindrim](https://www.reddit.com/u/gondolindrim)