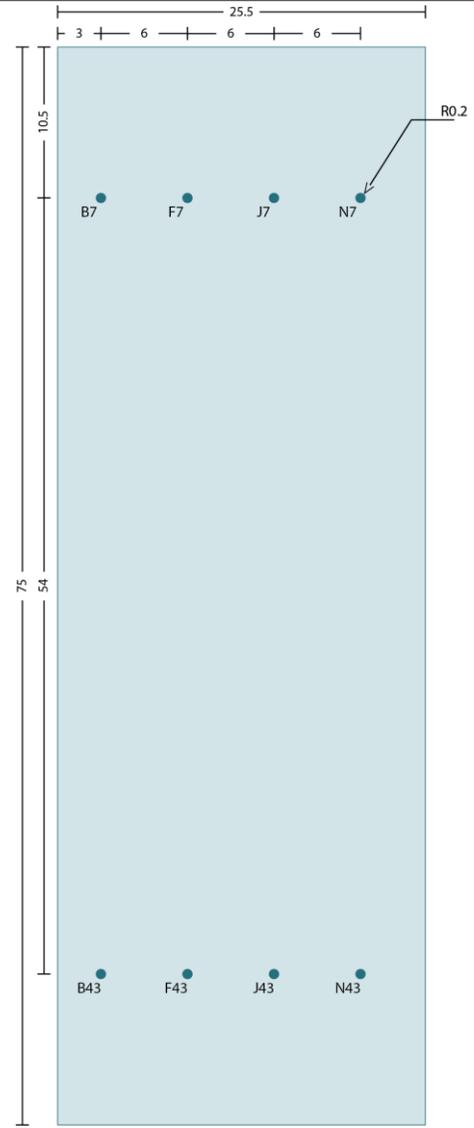


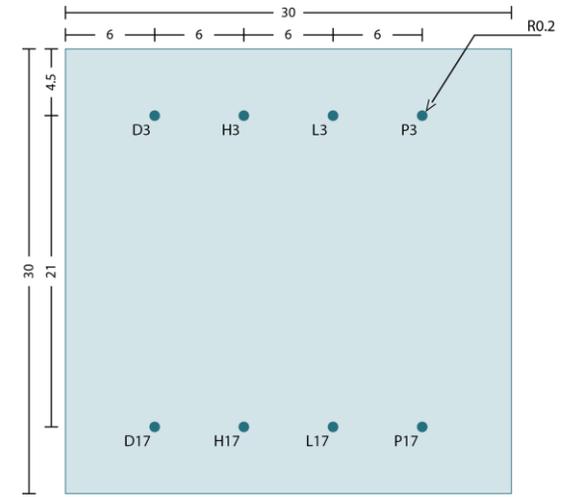
TOP Design Rules: Microfluidic Building Block Port Layouts

Suggested tissue chip MFBB layouts

Units: mm



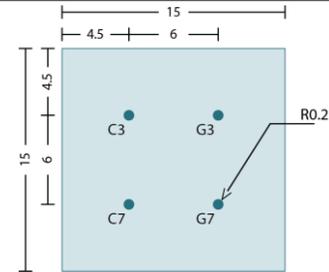
8p-MFBB 25.5 x 75



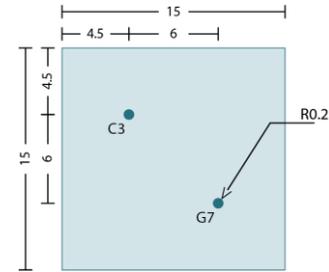
8p-MFBB 30 x 30

Suggested technical block MFBB layouts

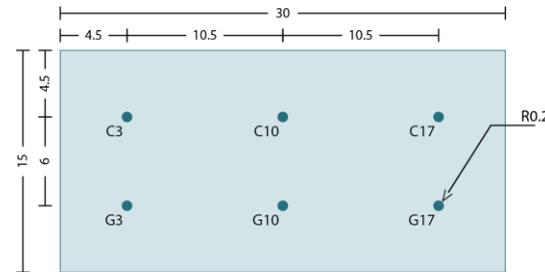
Units: mm



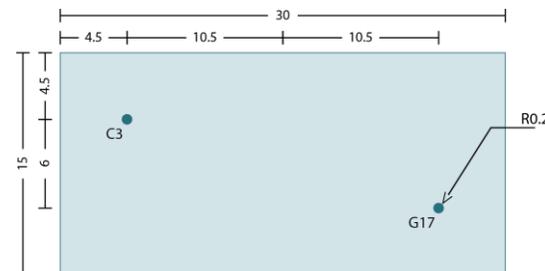
4p-MFBB 15 x 15



2p-MFBB 15 x 15



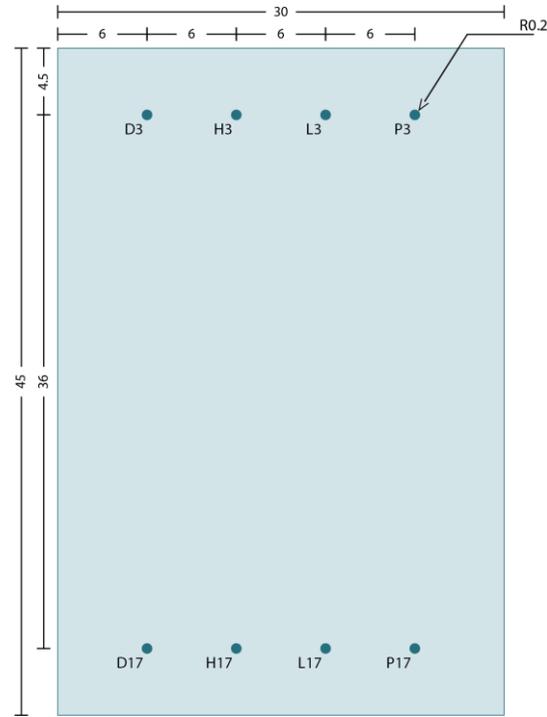
6p-MFBB 30 x 15



2p-MFBB 30 x 15

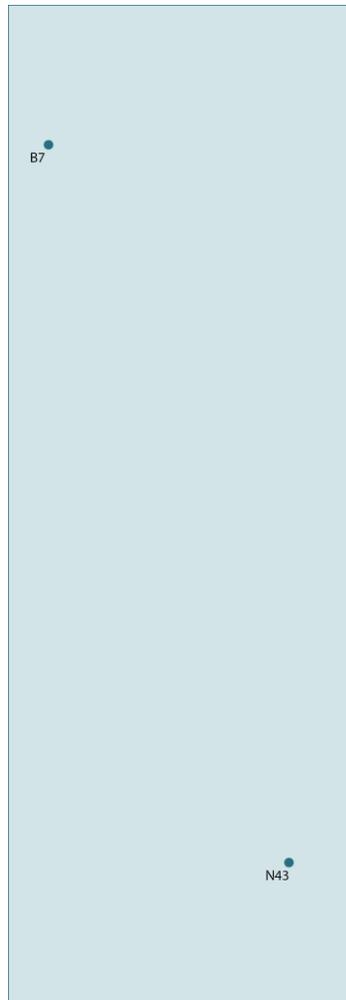
Extra MFBB layouts

Units: mm

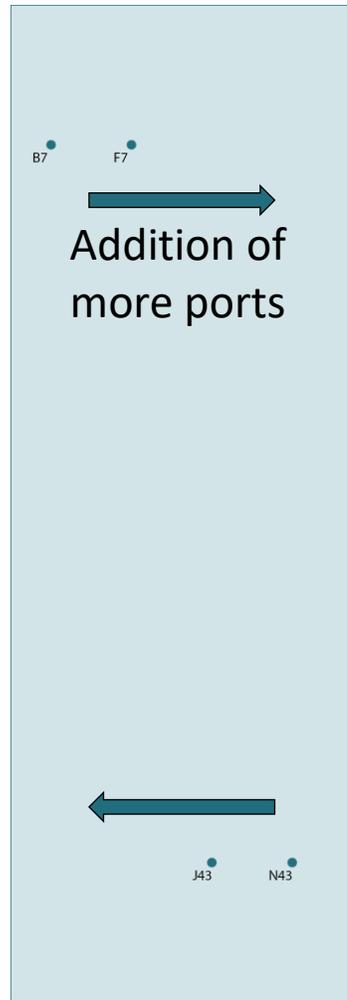


8p-MFBB 30 x 45

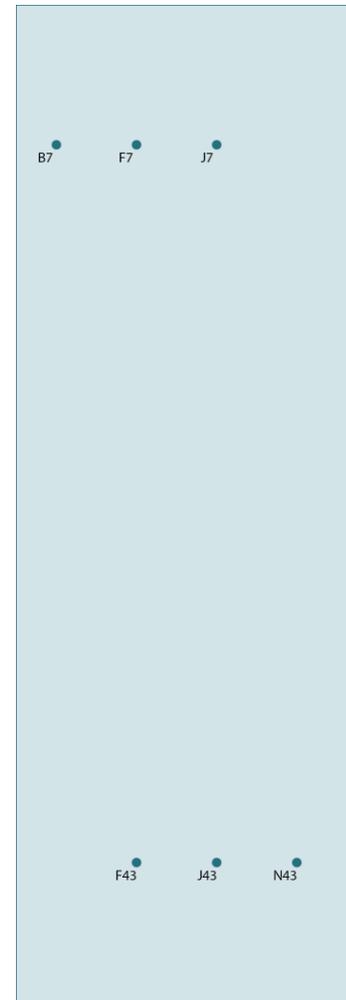
Selecting subsets of MFBB port layouts



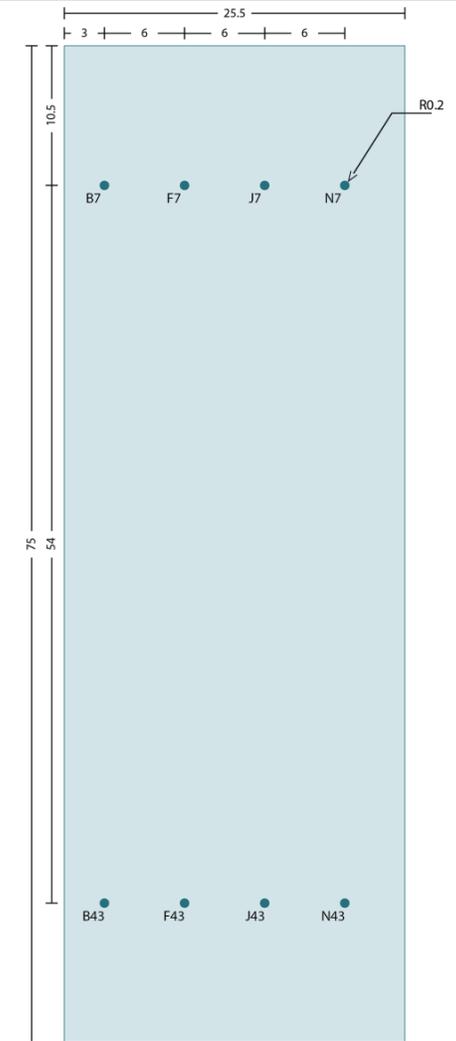
2-port
2p-MFBB 25.5 x 75



4-port
4p-MFBB 25.5 x 75



6-port
6p-MFBB 25.5 x 75



8-port
2p-MFBB 25.5 x 75

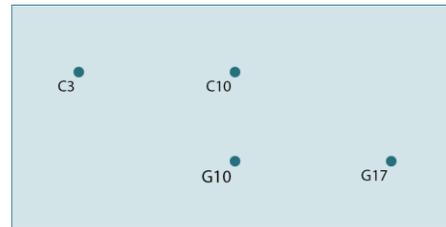
Units: mm

Selecting subsets of MFBB port layouts

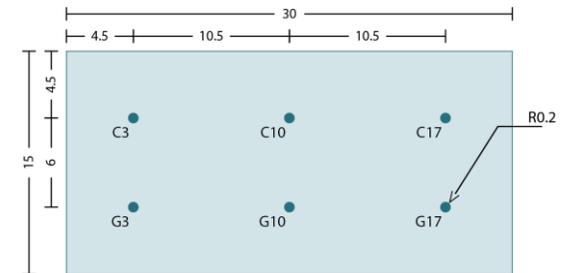
Units: mm



2-port
2p-MFBB 30 x 15



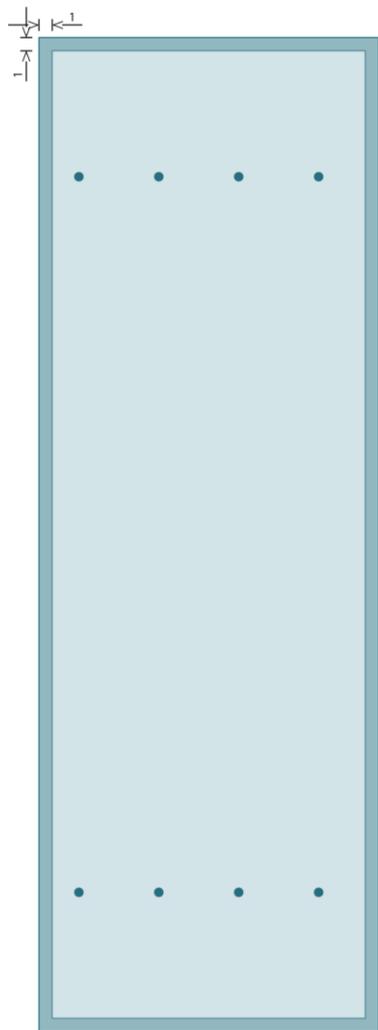
4-port
4p-MFBB 30 x 15



6-port
6p-MFBB 30 x 15

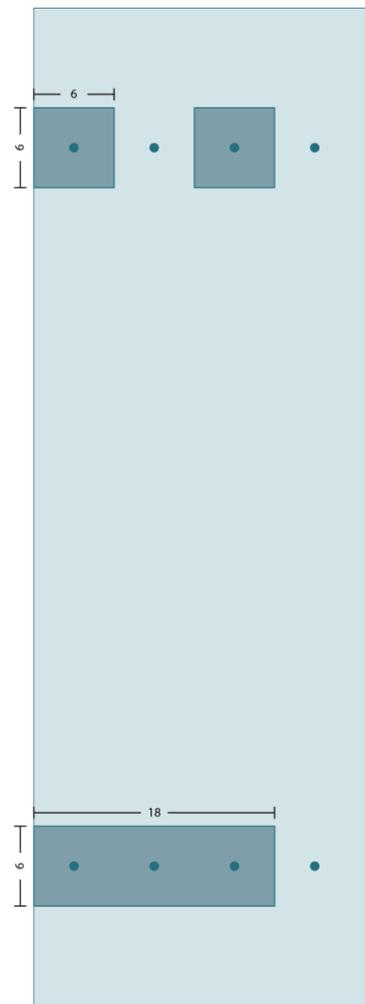
Exclusion zones and clamping areas

Units: mm



1-mm clamping area
(required at clamping surface)

Isolated ports



Adjacent ports

6-mm exclusion zones
(required at interfacing surface)

Exclusion zones and clamping areas must be free of obstructions and/or chip elements to ensure leak-free interfacing



Additional Resources

ISO 22916:2022

- <https://connect.nen.nl/Standard/Detail/3676262?compId=16755&collectionId=0>

Quick Start Design Guide

- <https://doi.org/10.4121/871d6c3a-cf1a-44f9-865a-6da842bd2f27>