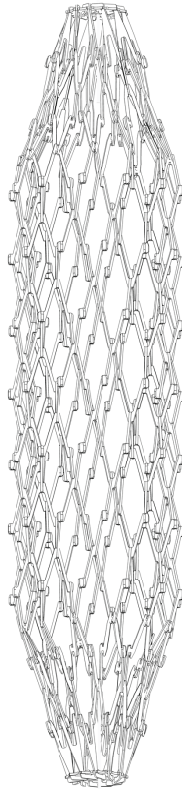


LIVING ARCHITECTURE SYSTEMS GROUP



Chevron Column

Riverview High School, Riverview New Brunswick
Workshop 2020, Rob Gorbet and Ian Fogarty

R

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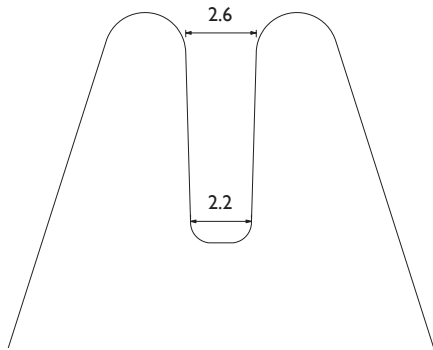
This book is set in Garamond and Gill Sans.

This folio was produced in association with Ian Fogarty and Rob Gorbet for Riverview High School students in New Brunswick, Canada. Workshop activities were supported by this open-source material during the Fall term of 2020.



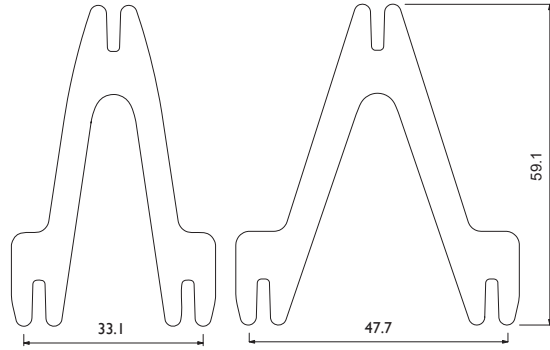
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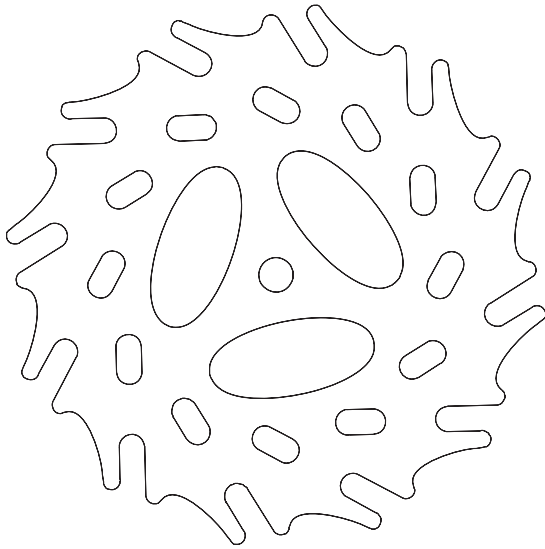
Chevron Push-On Component Jaw Detail

0 2 5 10 mm



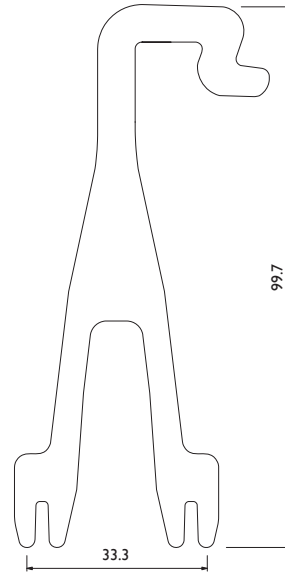
Narrow Chevron

Regular Chevron



End Plate - Top & Bottom

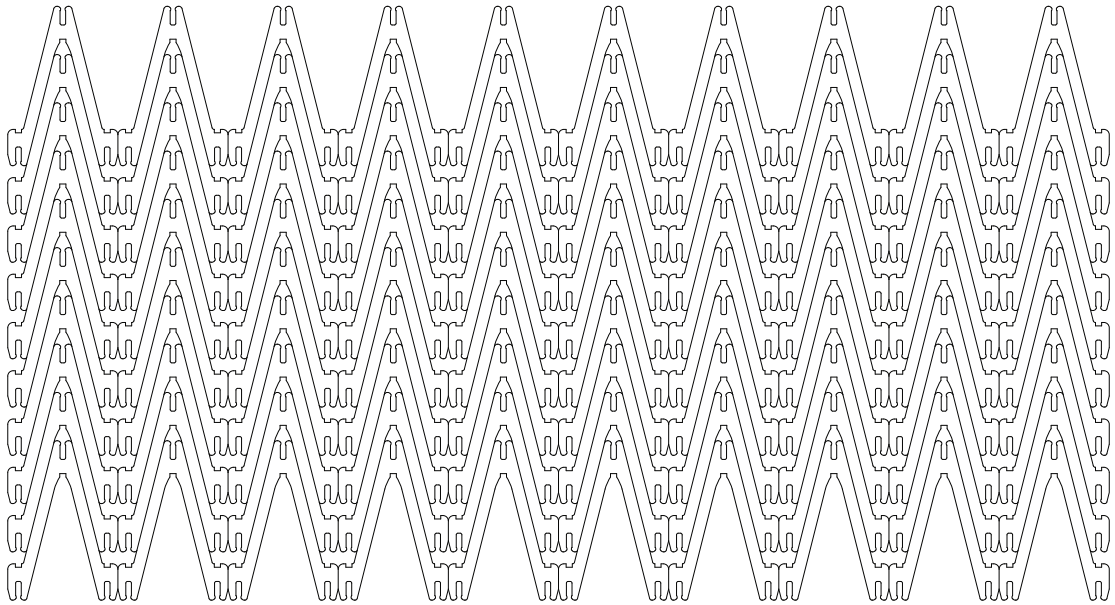
0 10 25 50 mm



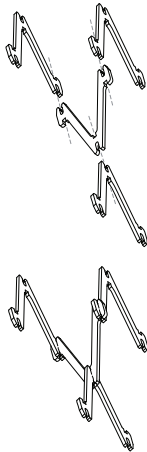
End Chevron

Note: Dimensions shown refer to machining paths. Machining kerf would yield slightly smaller parts. To ensure secure friction fit of joints prior to mass production, test and refine if required, based on actual machining kerf results in selected material.

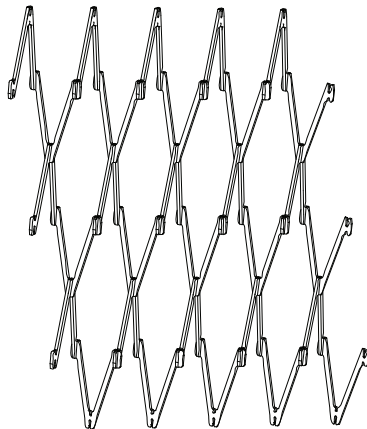
Chevron Push-on Components



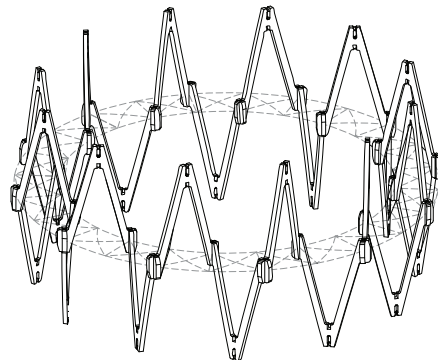
Chevron Mesh Components



Assembly

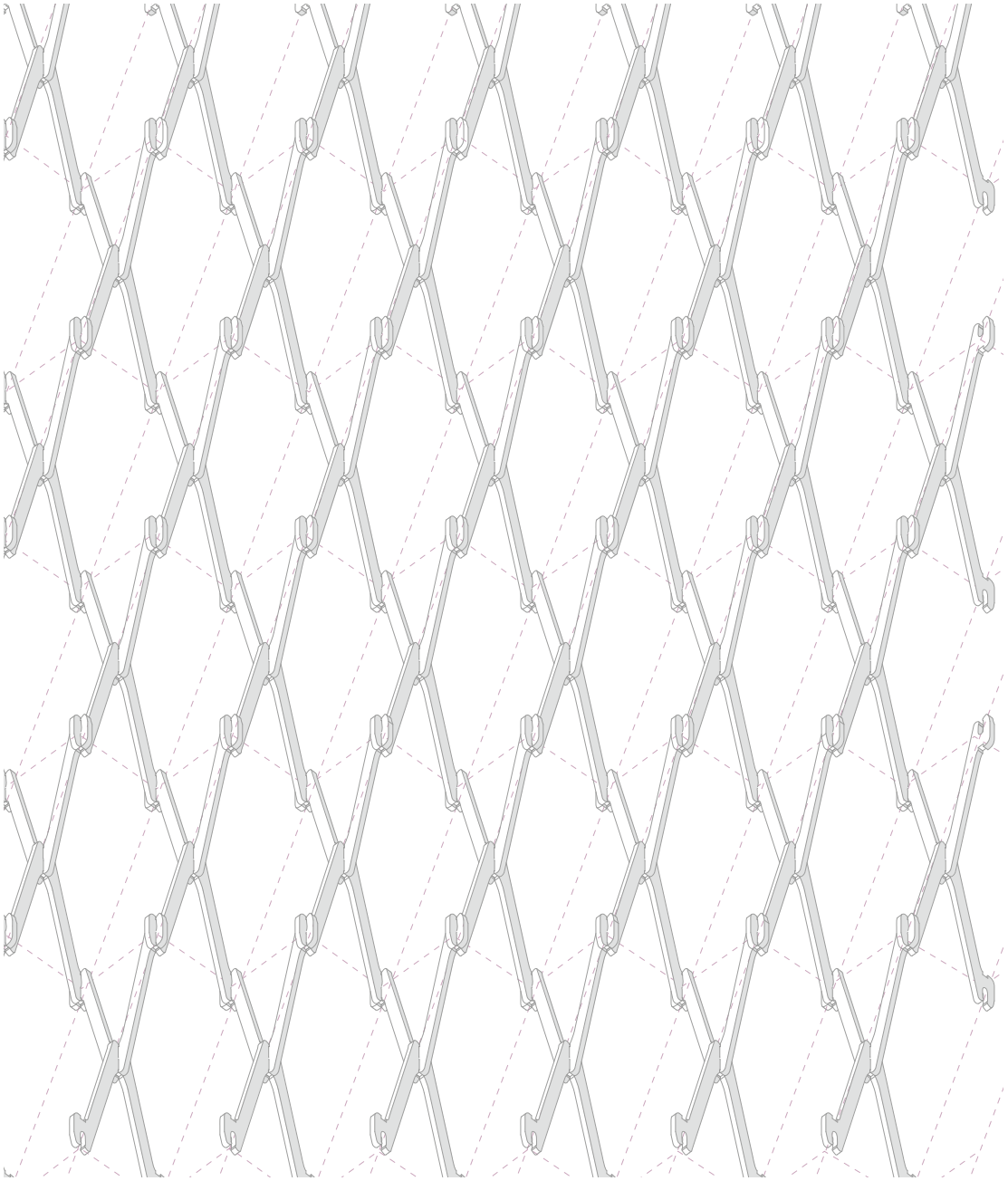


Mesh

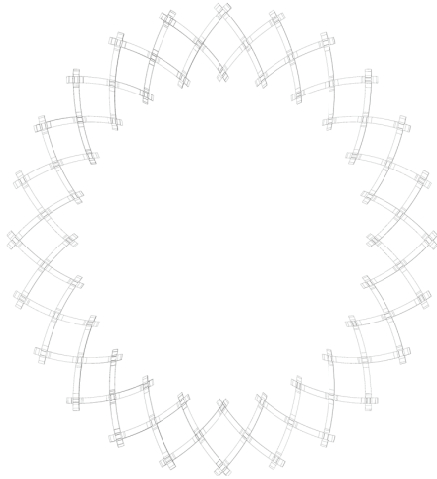


Ring

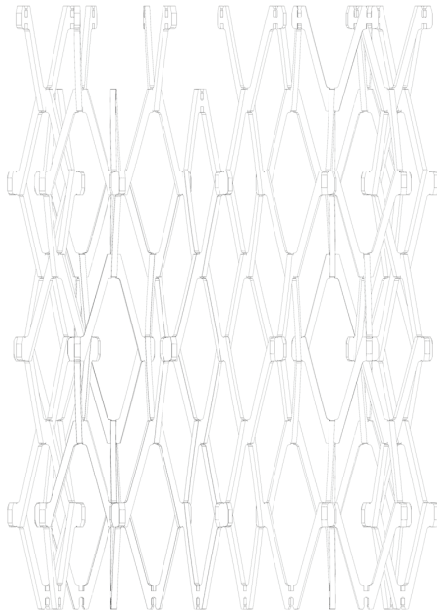
Nested Chevrons & Assembly



Chevron Mesh Tessellation



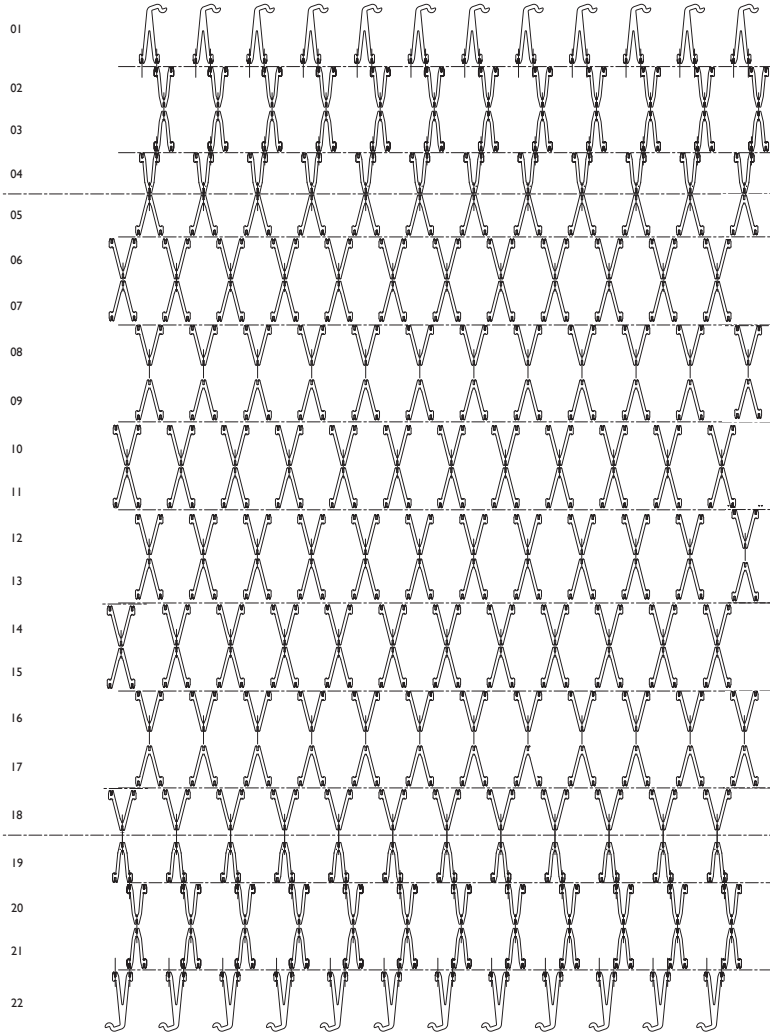
Chevron Column Structure Mesh - Plan



Chevron Column Structure Mesh - Elevation

0 25 50 100 mm

Column Structure



End Plate - Top
Qty: 1

End Chevron
Qty: 12

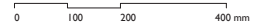
Narrow Chevron
Qty: 36

Regular Chevron
Qty: 168

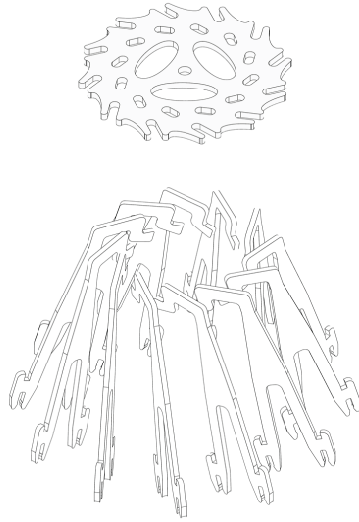
Narrow Chevron
Qty: 36

End Chevron
Qty: 12

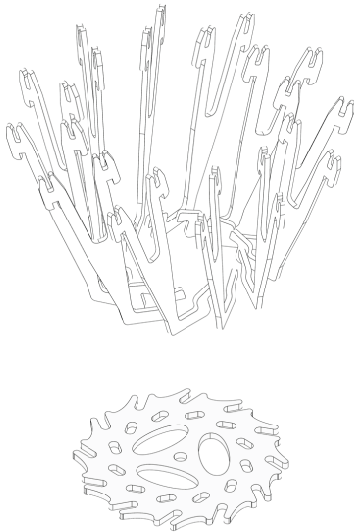
End Plate - Bottom
Qty: 1



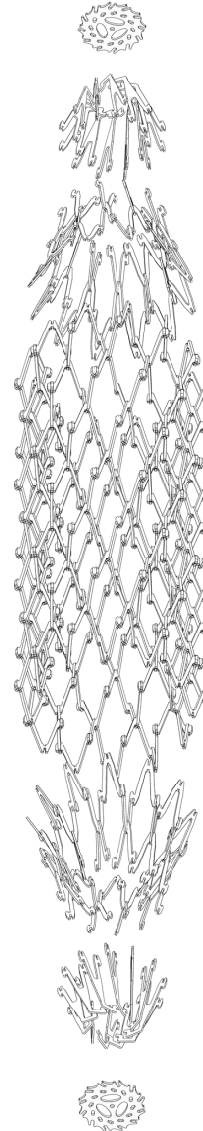
Unfolded Column Parts Layout



Column Top Detail

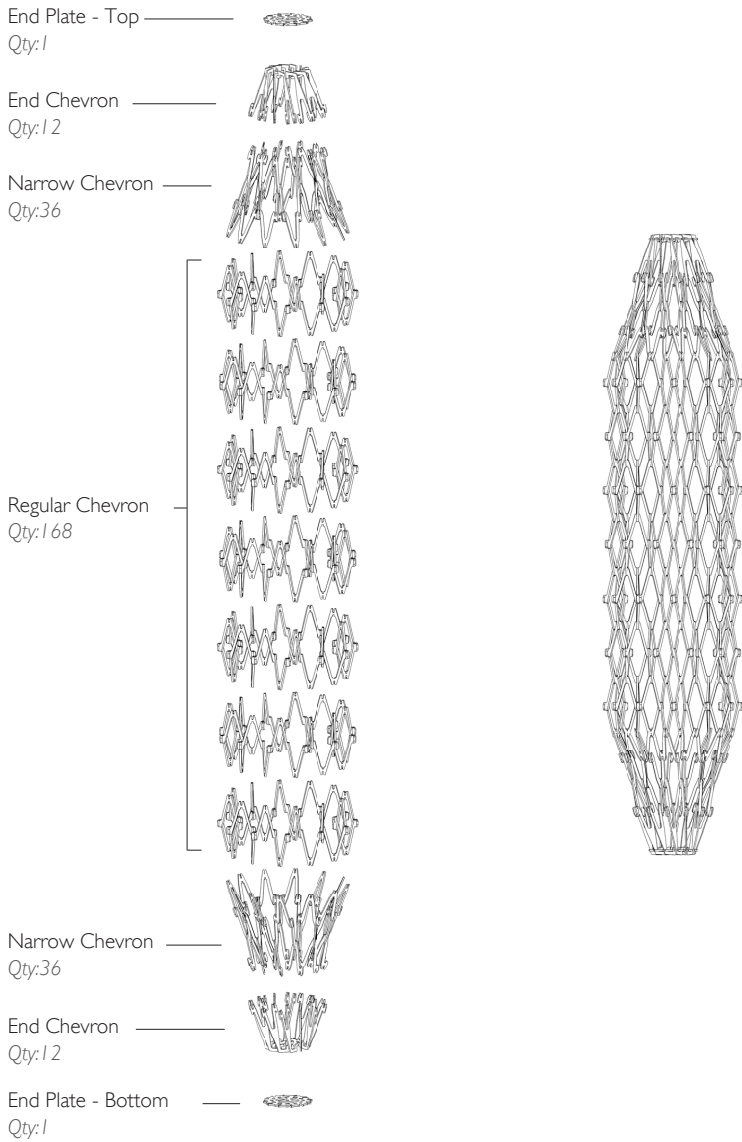


Column Bottom Detail

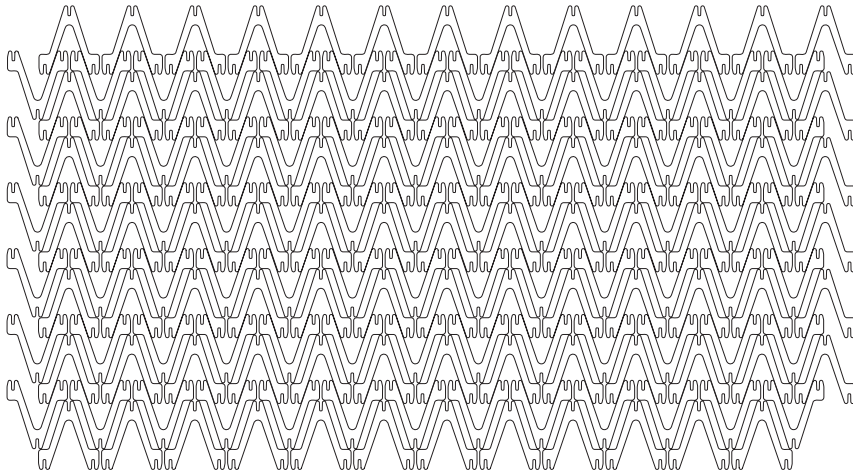


Exploded Column View

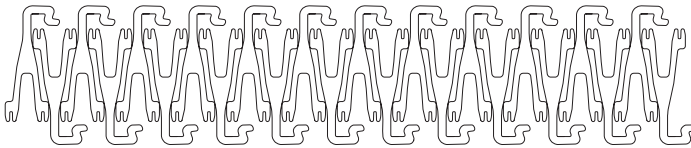
Chevron Column - Detail View



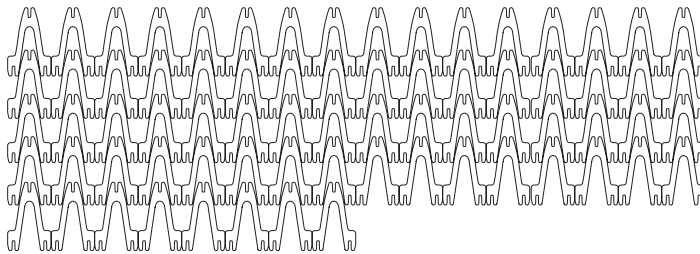
Exploded & Assembled View of Column



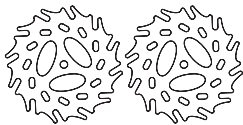
Regular Chevron | Qty: 168 per column



End Chevron | Qty: 24 per column



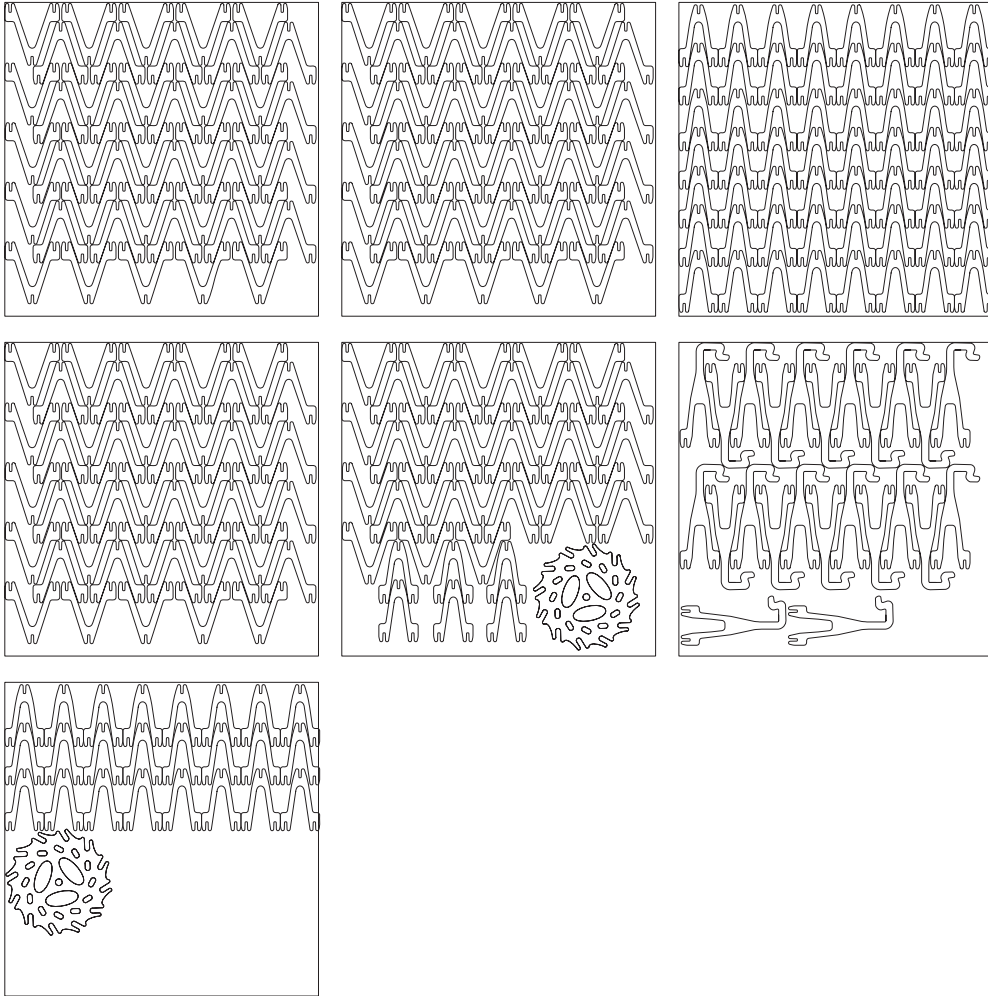
Narrow Chevron | Qty: 72 per column



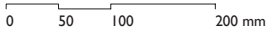
End Plate | Qty: 2 per column

0 50 100 200 mm

Cutting Pattern



Component cut sheets composed on 300 mm x 300 mm sheet samples



Nested Cutsheets for 300 mm Stock

LIVING ARCHITECTURE SYSTEMS GROUP

Chevron Column

Riverview High School, Riverview New Brunswick

This folio contains digital fabrication component cutting patterns and assembly instructions for constructing a diagrid chevron column using push-together laser-cut components. The assembly forms a part of a large collection of lightweight components developed by the earlier Hylozoic Ground Collaboration and the current Living Architecture Systems Group. This folio was produced in association with Ian Fogarty and Rob Gorbet for Riverview High School students in New Brunswick, Canada. Workshop activities were supported by this open-source material during the Fall term of 2020.

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