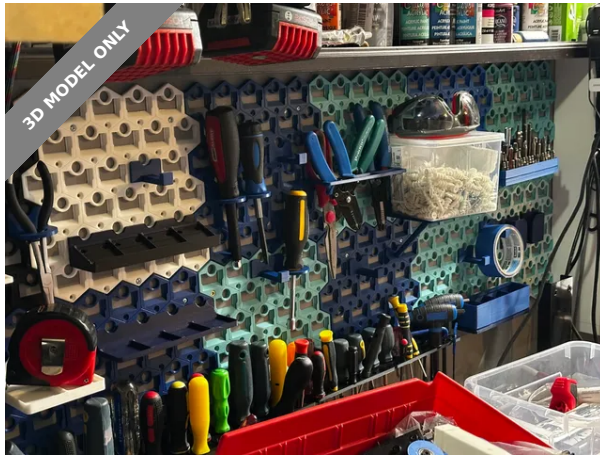




GOEWS - Greatly Over Engineered Wall System



MrExo3D

[VIEW IN BROWSER](#)

updated 6. 3. 2026 | published 11. 1. 2025

Summary

A new Wall system designed to work with Gridfinity. something opensource, something easy to setup, something Strong

[Hobby & Makers](#) > [Organizers](#)

Tags: [gridfinity](#) [goews](#)

GOEWS website <https://goews.ws/>

GOEWS Reddit Group <https://www.reddit.com/r/GOEWS/>

The **Greatly Over Engineered Wall System (GOEWS)** is a modular storage solution combining the flexibility of the Gridfinity system with a durable, modern hexagonal design. GOEWS is easy to install with secure, interlocking tiles that support a wide range of tools and accessories. Its simple, expandable system makes it perfect for organizing any workspace efficiently and stylishly.

GOEWS simplifies organization by focusing on core, functional components while offering endless scalability. Its strong, reliable design makes it ideal for both DIYers and professionals. Compatible with Gridfinity, GOEWS integrates seamlessly with existing setups, allowing you to adapt and grow your storage system as needed. Whether storing

tools, screws, or safety gear, GOEWS delivers a solution that combines function and aesthetic appeal.

What's So Great About GOEWS?

- **Based on Gridfinity Spacing:** Works seamlessly with Gridfinity systems.
- **Strong and Secure:** Designed to hold heavy tools reliably.
- **Bolt Lock Option:** Add extra security with optional bolt locks.
- **Open Source:** F3D and STEP files are freely available for customization.
- **Free for Commercial Use:** No subscriptions or fees—use it however you like.
- **Simple System:** Minimal parts needed to get started.
- **No Supports needed,** 2-3 Perimeters, 15% infill only

Say goodbye to clutter and hello to efficiency with GOEWS—a simple, over-engineered wall system designed to keep your workspace organized and functional!

Printing Tips:

Print Bolts with 10 Perimeters / Solid Infill

Updates:

Jan 10, 2025

- Thanks to [@MrMcyet_415048](#) for mentioning an issue with the Double hanger Gridfinity 3x2 base, part of it was hanging in mid air, that has been updated

Jan 7, 2025

- Updated Standard Bolt to have a smaller 18mm head to help with clearance issues related to GOEWS Grid and Supported Shelves. Thanks to [@Matgerke](#) for pointing out the issue

Jan 6, 2025

- Added Small Hooks to hang Picture Frames

Jan 4, 2025

- Added additional Hook Sizes

Jan 3, 2025

GOEWS GRID - the Straight version of GOEWS has been added. this maintains the 42mm Gridfinity horizontal Spacing and also maintains the

36.373mm vertical spacing that the GOEWS HEX Tiles Use. A GOEWS GRID Tile maker has been added to the GOEWS GRID folder.

Dec 16, 2024

- Added in the Flush Bolt by @andrew_3d
- Added 1x hanger Parametric Files for hanging Cup holders plus a few step/stl of different sizes, with and without tabs.. versions without tabs need flush bolt to hold down. if you want to use a bolt

Dec 14, 2024

- Small updated to 2x and 3x supported gridfinity shelves with magnets, so more layers supporting top surface. increasing overall thickness by 0.4mm

Dec 7:

- Added Shelves with Holes for screwdriver hanging example
- Added Gridfinity shelves with magnet holes for 1 row and 2 row deep shelves

Nov 29,2024:

- Added Tile Stacks with 0,2mm Gaps and also Tile Stacks with 0.4mm Spacers have been added, also with parametric f3d file
- Added Lite Tile maker. with Lite Tiles savings of aprox 22% over standard tiles. similar print time. these have **not** been tested yet
- added three parametric tool shelves. hope they come in handy. and here is a quick video on how to use them https://youtu.be/foeHN_Kr7gY

Nov 28, 2024 :Added Shelf Legend with 2x Deep shelves. with optional supports if you need the extra strength

Remix Tips:

GOEWS threads were created in fusion 360 with the help of a special thread profile for 3d printing. you can find here. preset used was

ISO Metric 0.3mm tolerance

14mm M14x2

Class 6g Right Hand

The special profile can be found here

<https://replicanfx.com/product/fusion-360-iso-metric-thread-profiles-w-tolerance/>

Model files



Small Hook for Picture Frames

2 files



goews-single-1x-hanging-plate-blank-small-hook-v2.step



goews-single-1x-hanging-plate-blank-small-hook-v2.stl



GOEWS GRID Tiles

13 files



goews-grid-36h-5x5.step



goews-grid-36h-5x5.stl



goews-grid-36h-4x4.step



goews-grid-36h-4x4.stl



goews-grid-36h-tile-6x6.stl



goews-grid-36h-tile-6x6.step



goews-grid-36h-tilemaker-v5.f3d



goews-grid-alignment-tool.stl



goews-grid-alignment-tool.step



goews-grid-36h-tile-3x3.stl



goews-grid-36h-3x3.step



goews-grid-alignment-2x2.step



goews-grid-alignment-2x2.stl

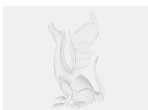


1x Hanging Cups - Parametric

10 files



goews-single-1x-hanging-cup-26mm-d-x-50mm-h.stl



goews-single-1x-hanging-cup-26mm-d-x-50mm-h.step



goews-single-1x-hanging-cup-50mm-d-x-50mm-h.stl



goews-single-1x-hanging-cup-50mm-d-x-50mm-h.step



goews-single-1x-hanging-cup-70mm-d-x-50mm-h.step



goews-single-1x-hanging-cup-parametric.f3d



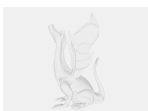
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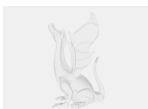


goews-single-1x-hanging-cup-parametric-with-tab-v1.f3d



Shelves with Holes

4 files



quad-hanger-shelf-with-20-large-10mm-holes.step



quad-hanger-shelf-with-20-large-10mm-holes.stl



goews-4x-hanger-slot-shelf-10-slots.stl



goews-4x-hanger-slot-shelf-10-slots.step



Parametric Shelf Generators, Slots, Holes, Hooks

3 files



goews-4x-hanger-slot-shelf-1x-parametric.f3d



goews-4x-hanger-hook-shelf-1x-parametric.f3d



goews-4x-hanger-hole-shelf-1x-parametric.f3d



Tile Stack with 0.4mm Spacers

13 files



goews-2x2-tile-stack-with-04mm-spacer.3mf



goews-2x4-tile-stack-with-04mm-spacer.3mf



goews-4x5-tile-stack-with-04mm-spacer.3mf



goews-2x2-tile-stack-with-04mm-spacer.step



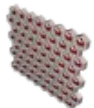
goews-4x4-tile-stack-with-04mm-spacer.3mf



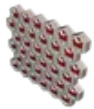
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goews-4x5-tile-stack-with-04mm-spacer.step



goews-8x8-tile-stack-with-04mm-spacer.3mf



goews-6x6-tile-stack-with-04mm-spacer.3mf



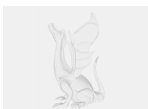
goews-parametric-tile-stack-with-spacer.f3d



goews-4x4-tile-stack-with-04mm-spacer.step



goews-6x6-tile-stack-with-04mm-spacer.step



goews-8x8-tile-stack-with-04mm-spacer.step



Tile Stacks with Gaps

13 files



goews-2x2-tile-stack-with-02-gaps.3mf



goews-2x4-tile-stack-with-02-gaps.3mf



goews-4x4-tile-stack-with-02-gaps.3mf



goews-2x2-tile-stack-with-02-gaps.step



goews-8x8-tile-stack-with-02-gaps.3mf



goews-2x4-tile-stack-with-02-gaps.step



goews-parametric-tile-stack-with-gaps.f3d



goews-4x5-tile-stack-with-02-gaps.3mf



goews-4x4-tile-stack-with-02-gaps.step



goews-4x5-tile-stack-with-02-gaps.step



goews-6x6-tile-stack-with-02-gaps.3mf



goews-6x6-tile-stack-with-02-gaps.step



goews-8x8-tile-stack-with-02-gaps.step



Hanging Cups

6 files



gridfinity-2x-double-tall-cup-with-goews-hanger.f3d



gridfinity-2x-double-tall-cup-with-goews-hanger.step



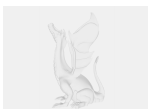
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gridfinity-2x-tall-cup-with-goews-hanger.stl



gridfinity-2x-tall-cup-with-goews-hanger.step



gridfinity-2x-tall-cup-with-goews-hanger.f3d



2x & 3x Deep Gridfinity Shelves with Support Arms

52 files



goews-1x-hanger-gridfinity-1x2-base.f3d



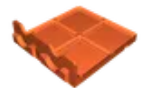
shelf-support-arm.f3d



shelf-support-arm.step



goews-2x-hanger-gridfinity-2x2-base.f3d



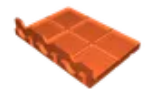
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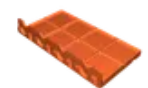
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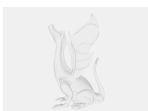
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goews-3x-hanger-gridfinity-2x3-base.stl



goews-4x-hanger-gridfinity-2x4-base.stl



goews-3x-hanger-gridfinity-2x3-base.step



goews-4x-hanger-gridfinity-2x4-base.step



goews-3x-hanger-gridfinity-2x3-base.f3d



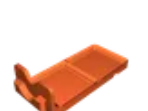
goews-1x-hanger-gridfinity-1x2-base.step



goews-4x-hanger-gridfinity-2x4-base.f3d



goews-2x-hanger-gridfinity-2x2-base.step



goews-1x-hanger-gridfinity-1x2-base.stl



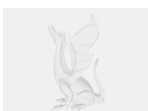
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shelf-support-plate.f3d



shelf-support-beefy-arm.stl



shelf-support-beefy-arm-v1.step



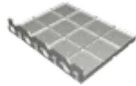
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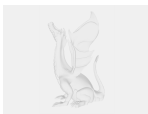
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goews-3x-hanger-gridfinity-3x3-base.3mf



goews-4x-hanger-gridfinity-4x3-base.3mf



goews-4x-hanger-gridfinity-4x3-base.step



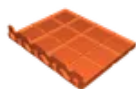
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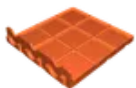
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goews-2x-hanger-gridfinity-2x3-base.step



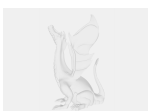
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goews-triple-hanger-gridfinity-mag-support-3x3-base.stl



goews-quad-hanger-gridfinity-mag-support-3x4-base.step



goews-triple-hanger-gridfinity-mag-support-3x3-base.step



goews-triple-hanger-gridfinity-mag-support-1x3-base.step



goews-triple-hanger-gridfinity-mag-support-1x3-base.stl



goews-double-hanger-gridfinity-with-magnets-1x2-bas... .step



goews-single-hanger-gridfinity-with-magnets-1x1-bas... .stl



goews-double-hanger-gridfinity-with-magnets-1x2-bas... .stl



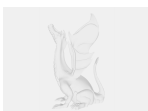
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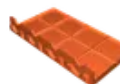
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goews-single-hanger-gridfinity-with-magnets-1x2-base .stl



goews-quad-hanger-gridfinity-with-magnets-2x4-base.step



goews-quad-hanger-gridfinity-with-magnets-2x4-base.stl



goews-quad-hanger-gridfinity-with-magnets-1x4-base-... .stl



goews-triple-hanger-gridfinity-with-magnets-2x3-base .step



goews-triple-hanger-gridfinity-with-magnets-2x3-base .stl



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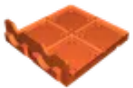
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goews-single-hanger-gridfinity-with-magnets-1x1-bas... .step



goews-triple-hanger-gridfinity-with-magnets-1x3-bas... .stl



goews-double-hanger-gridfinity-with-magnets-2x2-base .stl



goews-double-hanger-gridfinity-3x4-base-updated-jan... .step



goews-double-hanger-gridfinity-3x4-base-updated-jan... .stl



2x & 3x Deep flat Shelves with Support Arms

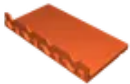
28 files



shelf-support-arm.stl



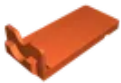
goews-4x-hanger-shelf-2x.step



goews-4x-hanger-shelf-2x.stl



goews-3x-hanger-shelf-2x.f3d



goews-1x-hanger-shelf-2x.stl



goews-1x-hanger-shelf-2x.step



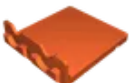
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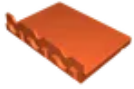
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shelf-support-plate.stl



goews-2x-hanger-shelf-2x.stl



goews-3x-hanger-shelf-2x.stl



goews-2x-hanger-shelf-2x.f3d



goews-4x-hanger-shelf-2x.f3d



goews-1x-hanger-shelf-2x.f3d



shelf-support-arm.f3d



shelf-support-arm.step



shelf-support-plate.step



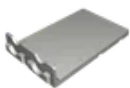
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shelf-support-beefy-arm-v1.step



shelf-support-beefy-arm.stl



goews-2x-hangerflat-shelf-2x3-base.3mf



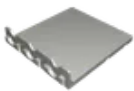
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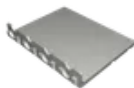
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goews-2x-hangerflat-shelf-2x3-base.step



goews-3x-hangerflat-shelf-3x3-base.3mf



goews-4x-hangerflat-shelf-4x3-base.3mf



goews-3x-hangerflat-shelf-3x3-base.step



goews-4x-hangerflat-shelf-4x3-base.step



1x Gridfinity Shelves

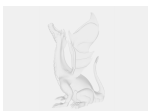
20 files



goews-single-hanger-gridfinity-1x1-base-v1.stl



goews-triple-hanger-gridfinity-1x3-base-v1.step



goews-single-hanger-gridfinity-1x1-base-v1.step



goews-quad-hanger-gridfinity-1x4-base-v1.step



goews-triple-hanger-gridfinity-1x3-base-v1.f3d



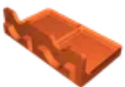
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goews-single-hanger-gridfinity-1x1-basev1.f3d



goews-double-hanger-gridfinity-1x2-base-v1.stl



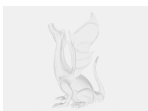
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goews-quad-hanger-gridfinity-1x4-base-v1.stl



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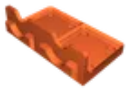
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goews-quad-hanger-gridfinity-with-magnets-1x4-base-... .step



goews-quad-hanger-gridfinity-with-magnets-1x4-base-... .stl



goews-double-hanger-gridfinity-with-magnets-1x2-bas... .stl



goews-triple-hanger-gridfinity-with-magnets-1x3-bas... .stl



goews-triple-hanger-gridfinity-with-magnets-1x3-bas... .step



goews-double-hanger-gridfinity-with-magnets-1x2-bas... .step



1x Simple Shelves

9 files



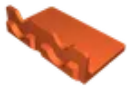
goews-2x-hanger-shelf-1x.f3d



goews-4x-hanger-shelf-1x.stl



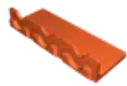
goews-3x-hanger-1x-shelf.f3d



goews-2x-hanger-shelf-1x.stl



goews-4x-hanger-shelf-1x.f3d



goews-3x-hanger-1x-shelf.stl



goews-3x-hanger-1x-shelf.step



goews-4x-hanger-shelf-1x.step



goews-2x-hanger-shelf-1x.step



Bolts

13 files



goews-bolt-parametric-v1.f3d

☐ 20mm Diameter Head



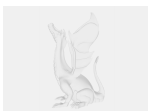
goews-bolt-9mm-standard.step

☐ 20mm Diameter Head



goews-bolt-9mm-standard.stl

☐ 20mm Diameter Head



goews-bolt-hd-16mm.step



goews-bolt-parametric-hd-9mm.stl



goews-hd-bolt-parametric.f3d



goews-bolt-parametric-hd-9mm.step



goews-bolt-hd-16mmstl.stl



flushretainingboltforgoews-1.step

by @andrew_3d



flushretainingbolt-hex-1.step

by @andrew_3d



goews-bolt-parametric-18mm-head-revised.f3d

New Version with Smaller Head to work under Supported Shelves on GOEWS GRID



goews-bolt-18mm-head-9mm-length-revised-standard.stl

New Version with Smaller Head to work under Supported Shelves on GOEWS GRID



goews-bolt-18mm-head-9mm-length-revised-standard.step

New Version with Smaller Head to work under Supported Shelves on GOEWS GRID



Lite Tiles - Untested

3 files



goews-4x4-tile-lite.stl



goews-tile-maker-lite.f3d



goews-tile-4x4-lite.step



Hooks

29 files



goews-single-hanger-hook-35mm.f3d



goews-single-hanger-hook-35mm.stl



goews-single-hanger-hook-35mm.step



shelf-support-plate-with-hook.step



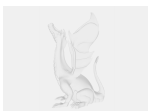
shelf-support-plate-with-hook.f3d



shelf-support-plate-with-hook.stl



goews-single-hanger-hook-24mm-hd-v1.stl



goews-single-hanger-hook-24mm-hd-v1.step



single-plate-single-hook-20mm-long-tall.stl



single-plate-single-hook-50mm-long-tall.stl



single-plate-single-hook-80mm-long-20mm-wide.stl



single-plate-single-hook-40mm-long-tall.stl



single-plate-single-hook-60mm-long-tall.stl



single-plate-single-hook-30mm-long-tall.stl



single-plate-single-hook-30mm-long-20mm-wide.stl



single-plate-single-hook-40mm.f3d



single-plate-single-hook-10mm.stl



single-plate-single-hook-70mm-long-tall.stl



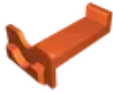
single-plate-single-hook-50mm-long-20mm-wide.stl



single-plate-single-hook-10mm-long-20mm-wide.stl



single-plate-single-hook-70mm-long-20mm-wide.stl



single-plate-single-hook-60mm-long-20mm-wide.stl



single-plate-single-hook-80mm-long-tall.stl



single-plate-single-hook-30mm.stl



single-plate-single-hook-20mm-long-20mm-wide.stl



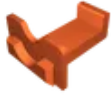
single-plate-single-hook-20mm.stl



single-plate-single-hook-15mm.stl



single-plate-single-hook-50mm.stl



single-plate-single-hook-40mm-long-20mm-wide.stl



Hole Hanger

3 files



goews-single-hanger-1xhole.stl



goews-single-hanger-1xhole.step



goews-single-hanger-1xhole.f3d



Spec Drawings

7 files



goews-2x-hanging-plate-blank-drawing-v1.dwg



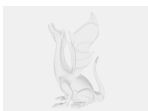
goews-4x-hanging-plate-blank-drawing-v1.dwg



goews-3x-hanging-plate-blank-drawing-v1.dwg



goews-1x-hanging-plate-blank-drawing-v1.dwg



goews-bolt-parametric-drawing-v1.dwg



goews-single-hex-drawing-v1.dwg



goews-tile-6x5-drawing-v1.dwg



Hanging Plates

12 files



goews-3x-hanging-plate-blank.stl



goews-2x-hanging-plate-blank.step



goews-3x-hanging-plate-blank.f3d



goews-2x-hanging-plate-blank.stl



goews-2x-hanging-plate-blank.f3d



goews-3x-hanging-plate-blank.step



goews-4x-hanging-plate-blank.f3d



goews-4x-hanging-plate-blank.step



goews-4x-hanging-plate-blank.stl



goews-1x-hanging-plate-blank.stl



goews-1x-hanging-plate-blank.step



goews-1x-hanging-plate-blank.f3d



Tiles

15 files



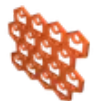
goews-single-hex.step



goews-tile-2x2.stl



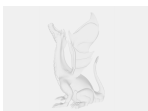
goews-single-hex.f3d



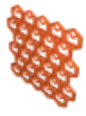
goews-tile-4x4.stl



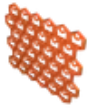
goews-tile-maker.f3d



goews-tile-6x5.step



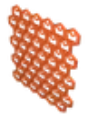
goews-tile-6x5.stl



goews-tile-6x6.stl



goews-single-hex.stl



goews-tile-8x6.stl



goews-tile-4x5.stl



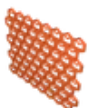
goews-tile-2x4.stl



goews-tile-6x4.stl



goews-tile-10x10.stl



goews-tile-8x8.stl



Wall Offset

2 files



goews-8mm-wall-offset.stl



goews-8mm-wall-offset.step

Other files



goews-4x-hanging-plate-blank-drawing-v1.pdf



goews-1x-hanging-plate-blank-drawing-v1.pdf



goews-3x-hanging-plate-blank-drawing-v1.pdf



goews-2x-hanging-plate-blank-drawing-v1.pdf



goews-single-hex-drawing-v1.pdf



goews-bolt-parametric-drawing-v1.pdf



goews-tile-6x5-drawing-v1.pdf

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