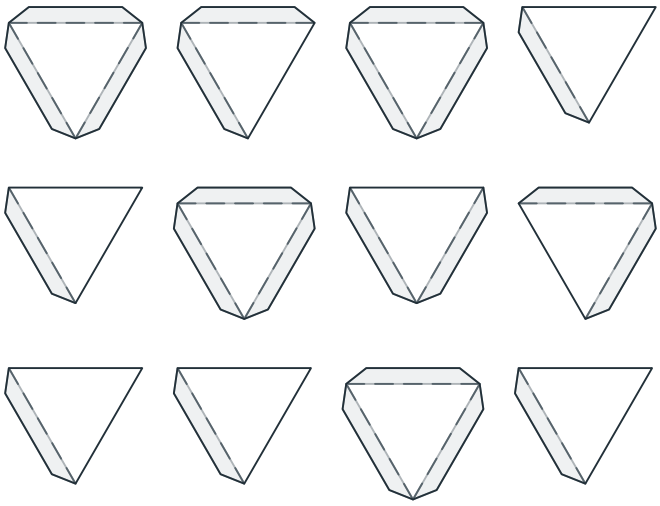
Icosahedron Net paper construction project

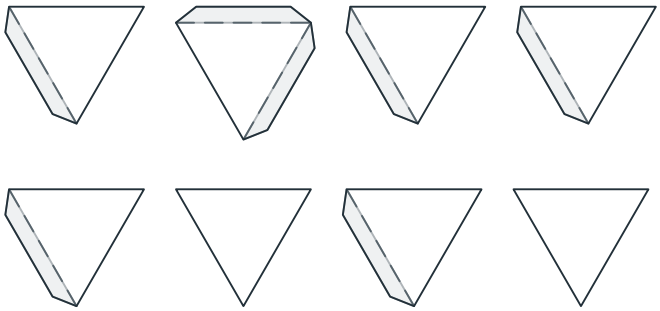
ex2-1205 / LETTER / Parts overview - NOT A CUTTING SHEET

USE THE FOLLOWING PATTERN SHEETS AT ACTUAL SIZE.

These miniature views identify the supplied patterns; they are deliberately reduced.



1. Pattern 1



2. Pattern 2

2 pattern sheets supplied. Printed details are not cut lines unless explicitly marked.

Solid cut boundary / dashed score / shaded joining area. Read the full instructions.

Dry-fit the parts before gluing. Keep this overview beside the full-size pattern sheets.

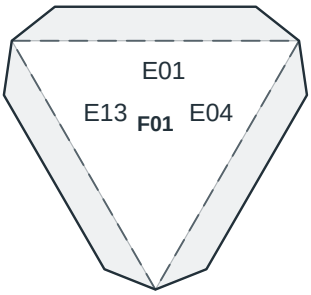
50 mm print check

Print at actual size / 100%. Disable fit-to-page.
Use the paper edition that matches the printer tray.

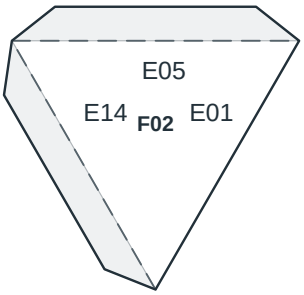
Icosahedron Net paper construction project

ex2-1205 / LETTER / Pattern 1

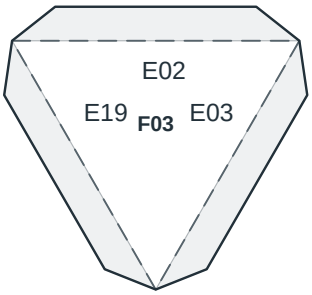
F01 - match edge labels



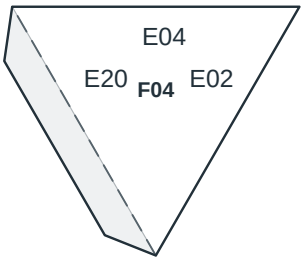
F02 - match edge labels



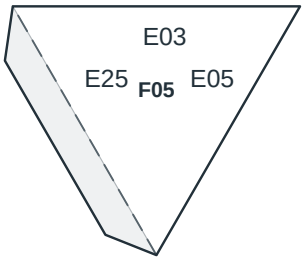
F03 - match edge labels



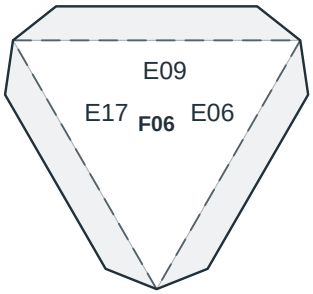
F04 - match edge labels



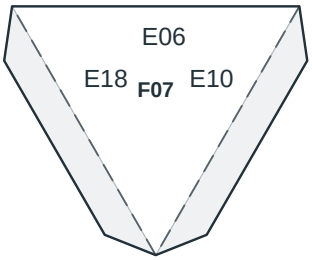
F05 - match edge labels



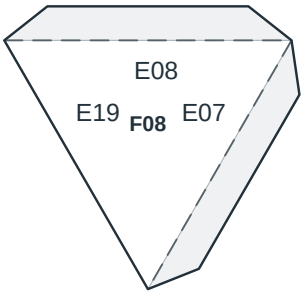
F06 - match edge labels



F07 - match edge labels



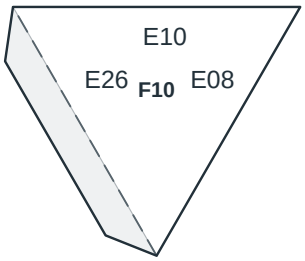
F08 - match edge labels



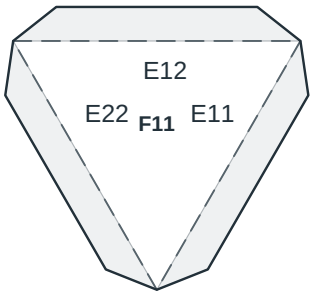
F09 - match edge labels



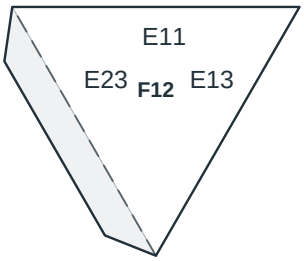
F10 - match edge labels



F11 - match edge labels



F12 - match edge labels



50 mm print check

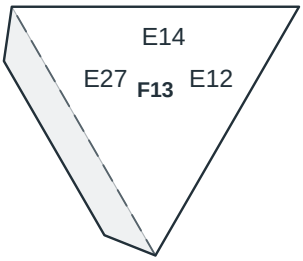
Print at actual size / 100%. Disable fit-to-page.

Use the paper edition that matches the printer tray.

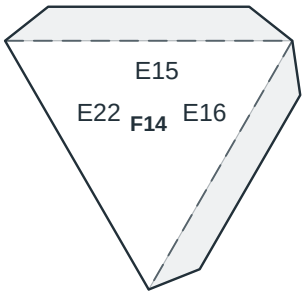
Icosahedron Net paper construction project

ex2-1205 / LETTER / Pattern 2

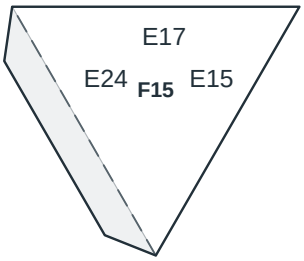
F13 - match edge labels



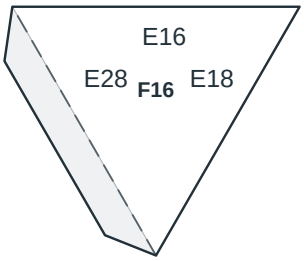
F14 - match edge labels



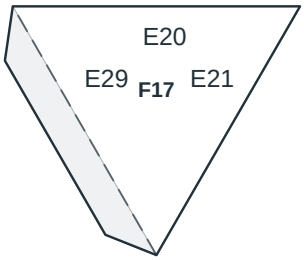
F15 - match edge labels



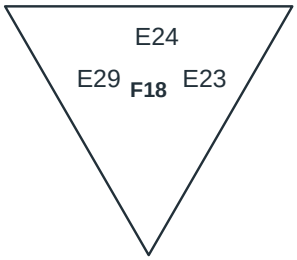
F16 - match edge labels



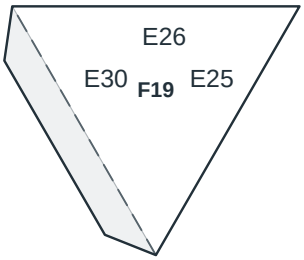
F17 - match edge labels



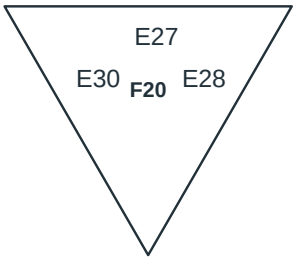
F18 - match edge labels



F19 - match edge labels



F20 - match edge labels



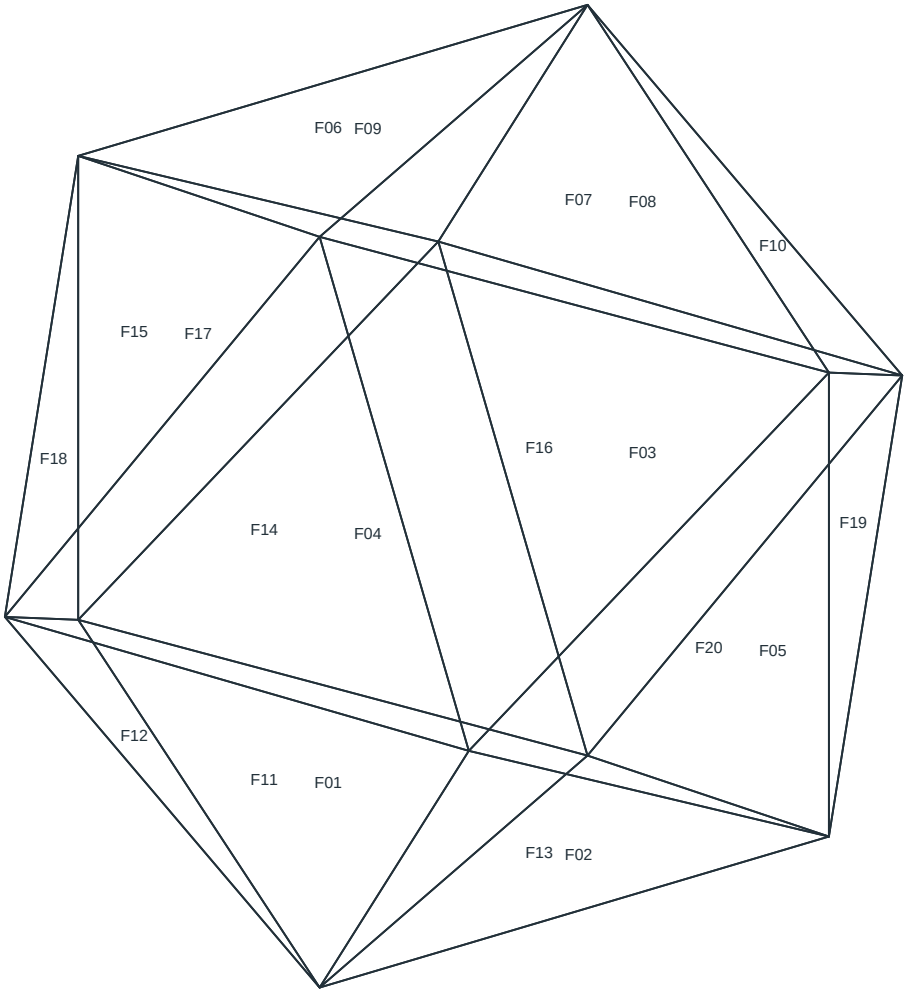
50 mm print check

Print at actual size / 100%. Disable fit-to-page.

Use the paper edition that matches the printer tray.

Icosahedron Net paper construction project

ex2-1205 / LETTER / Assembly map - not a cutting pattern



Join matching E-labels, tab behind the untabbed mate.

20 faces / 30 unique edges / 38 mm panel edge

50 mm print check

Print at actual size / 100%. Disable fit-to-page.
Use the paper edition that matches the printer tray.

Icosahedron Net paper construction project

ex2-1205 / LETTER / Instructions

PURPOSE

Icosahedron Net paper construction project developed as a measured original paper study. The packet provides the actual parts, joining or shaping marks, drawing dimensions and an assembly sequence. Print at actual size and dry-fit the parts before gluing.

DRAWING FACTS

- 20 individually labeled faces with 38 mm panel edges.
- Matching E-labels are derived from one shared 3D vertex model. Join every matching edge pair to close the solid.

MATERIALS

Plain 100 to 140 gsm paper for a first dimensional trial; approximately 160 to 220 gsm card only after confirming the folds. Use a ruler, suitable scissors, a blunt scoring tool and a small amount of paper adhesive. An adult should handle internal cuts, holes and small fasteners.

HOW TO USE THESE PAGES

1. Cut all labeled faces with their attached tabs. Keep the assembly map as a separate reference.

2. Score each tab hinge and join matching E-labels. A tab-bearing edge mates with the same label on a face without a tab.

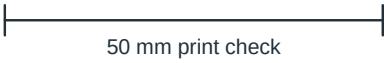
3. Begin at F01 and build neighboring faces gradually, letting seams set. Do not cut a panel into smaller triangles merely because the map shows edges.

4. Join all matching E-labels to close the solid. No open cap pattern is supplied.

5. Record actual closure and any gap. This is a paper geometry model, not a load-rated dome or a fabrication file for other materials.

LIMITS AND CHECKS

- Drawing dimensions describe flat paper surfaces, not verified internal capacity, load strength, fit or material compatibility.
- No mailing, food-contact, archival, toy-safety, protective-wear or cutting-machine certification is supplied.
- Make a plain-paper trial first; paper thickness and fold accuracy can change the fit.
- Trial: Measure the 50 mm reference and two named component dimensions.
- Trial: Make a complete empty trial and document fold direction, joining order, collision, stability and any fragile features.
- Trial: Repeat the trial using your chosen paper. Check that every join holds and each moving part works freely before decorating.



Print at actual size / 100%. Disable fit-to-page.

Use the paper edition that matches the printer tray.