Terrain Pak 1 - The Fields of War

Required tools:

- A sharp knife, such as a hobby knife.
- A straightedge, preferably a metal ruler.
- A cutting surface, such as a self-healing cutting mat.
- Card stock, preferably heavy stock (#120 is recommended) for the hills and bridges. Other scenics can be easily printed on light stock.
- Glue, glue stick, or paste. Regular white glue can warp the cardstock and should be applied in a very thin layer. Paste and glue sticks won't warp the paper, but can be difficult to apply correctly and may set before the pieces are assembled correctly. A glue specifically designed for crafts is recommended, as it is easy to apply, doesn't set too quickly, and doesn't warp the paper.

Recommended tools:

- A pair of self-closing tweezers is useful for holding pieces together while glue is drying.
- A fine-tipped burnishing tool is excellent for scoring fold lines, making your folds more sharp. You can also use a dull knife or the back of a knife blade to score the fold lines.
- A temporary glue stick or removable double-sided tape is useful for sticking the water and dirt textures to pieces, allowing you to remove the textures and re-use the pieces.

General assembly instructions:

Print the pages onto the cardstock. For the textures, shrubs and hedges, it is recommended that you use the highest printer quality that you can, as the textures degrade quickly at lower printer settings. The hills and other pieces are more resilient to lower printer settings. Cut the pieces along the black cut lines. Run your burnishing tool or the back of a knife along the gray, dashed lines to score them, giving you better looking folds.

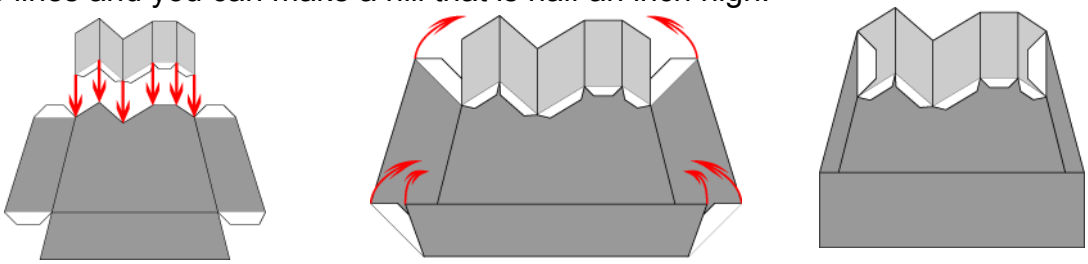
To assemble the hills:

Each hill consists of a hill base and a number of skirt strips that will attach to the hill base to form the curved sides of the geomorphs. Cut out the strips and the base. Score the pieces along the gray, dashed, fold lines. Fold back the white glue tabs. Fold the strip so it matches the contour of the hill edge. Glue the glue tabs to the bottom of the hill, matching each section of the strip to the hill contour. Glue on any additional strips. Once all of the strips have been glued on, fold the side panels and glue them in place.

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

The hill contours and the skirt strips are marked with letters to assist in placement. If you are using the letters to help you place the strips, you may want to mark the letters on the back of the hill base before cutting it out. To do this, hold the sheet of paper towards a light and mark the back of the sheet.

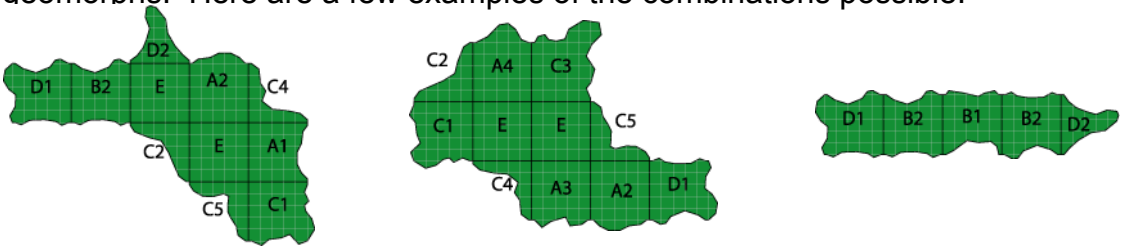
The hills, as designed, are one inch high. To assist in creating a shorter hill, guide arrows have been provided. Before cutting out the hill base or the skirt strips, draw a line connecting the arrows on each panel and strip. Cut along these lines and you can make a hill that is half an inch high.



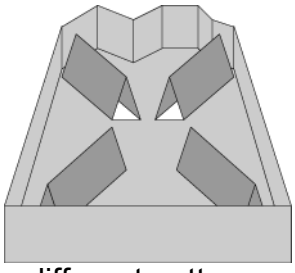
To connect the hills:

Each hill geomorph has two cut lines along each white panel, cut these slots. Cut the connector pieces, including the slot in the middle. Place two geomorphs together and line up their slots. Slide the connector piece's slot into the slots of the two geomorphs.

You can create quite a number of unique hills by combining the geomorphs. Here are a few examples of the combinations possible:



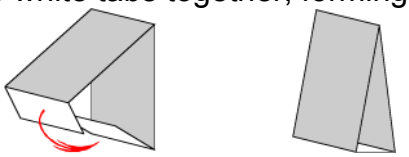
To reinforce the hills:



The terrain pak comes with reinforcement pieces in case you wish to use these hills with metal figurines or heavy buildings or for those who wish for additional stability. The support pieces fold over into a tent shape. Glue the base of the tent to the underside of the hill, so that the point of the tent will rest on the ground when the hill is in use. Four pieces, placed in an "X" pattern, provide excellent support; although some pieces will require different patterns.

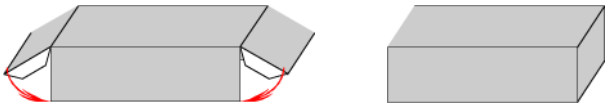
To assemble the trees, shrubs and fences:

These items are assembled by scoring and folding along the gray, dashed lines. Overlap and glue the white tabs together, forming a tent shape.



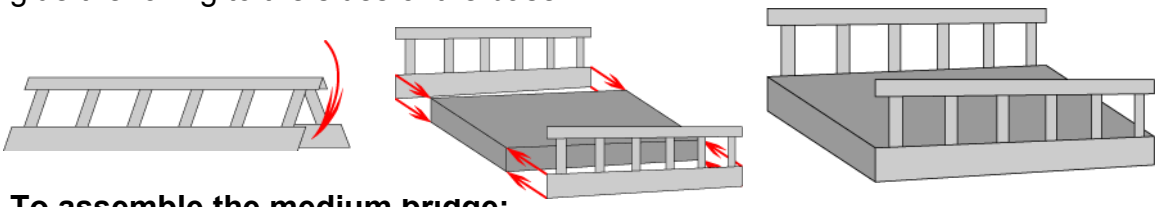
To assemble the walls and hedges:

Score and fold along the gray, dashed lines. Fold the sides down and glue the white glue tabs to the insides of the sides to form a box.



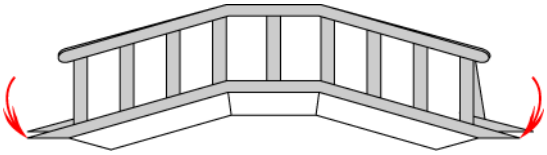
To assemble the small, wooden bridge:

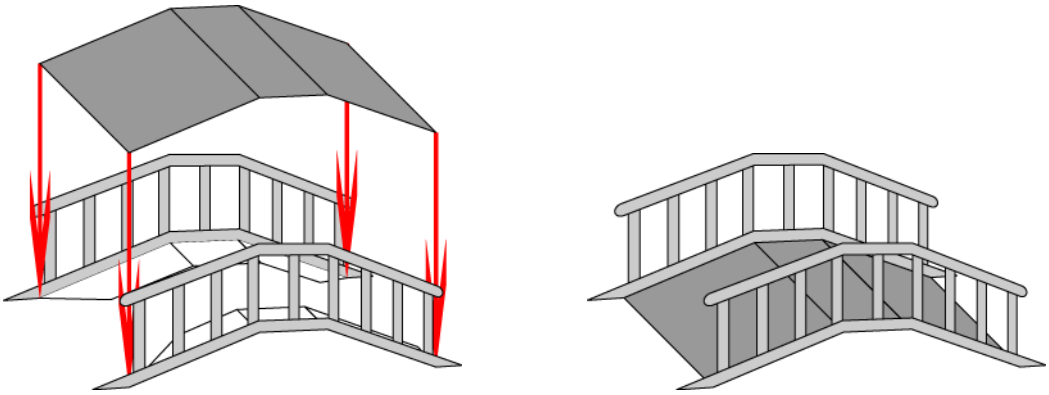
Assemble the bridge base into a box. Fold the railing along the fold line and glue it together, giving you a double-sided railing. If you wish to cut the sections out between the railings, do so after the piece has been folded over, glued, and the glue is dry. Once both railings and the base have been made, glue the railing to the sides of the base.



To assemble the medium bridge:

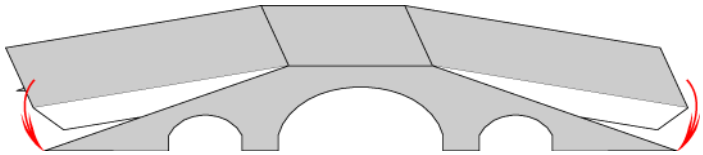
The medium bridge consists of three pieces: Two railings and the floorboards. Assemble the railing by folding it along the fold line and gluing it together. If you wish to cut the sections out between the railings, do so after the piece has been folded over, glued, and the glue is dry. Fold the white glue tabs to a right angle from the railing, these tabs will support the floorboards. Once both railings are finished, cut out and score the floorboards. Glue the back of the floorboards onto the railing glue tabs.



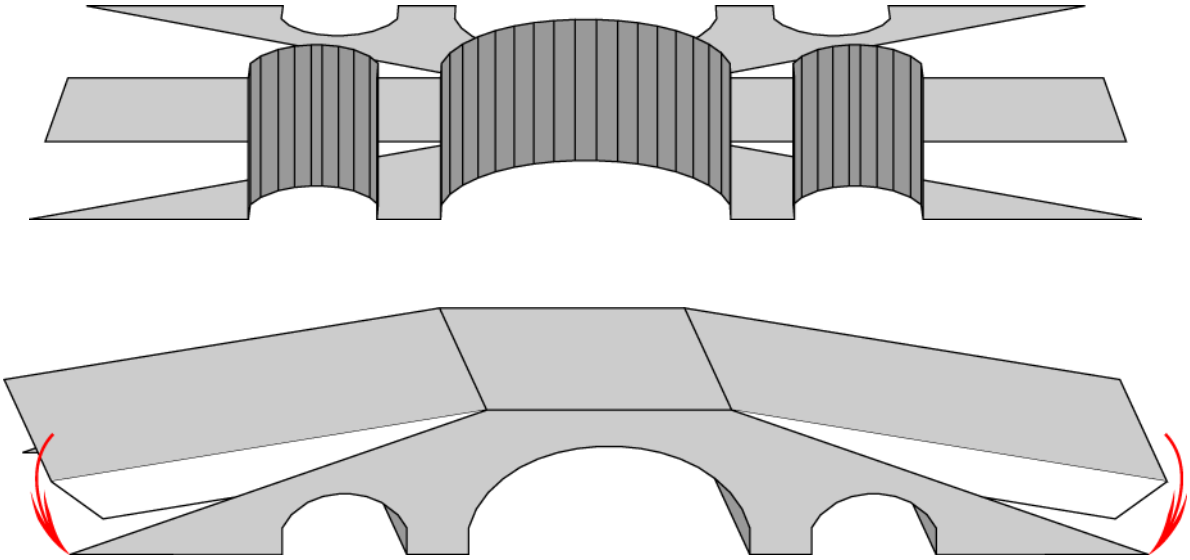


To assemble the large bridge:

The large bridge consists of four pieces: the main bridge, a large arch and two smaller arches. If you are not interested in using the arches, the bridge can be easily assembled by cutting out and scoring the main bridge, folding down the sides, and gluing the white glue tabs to the inside of the sides.

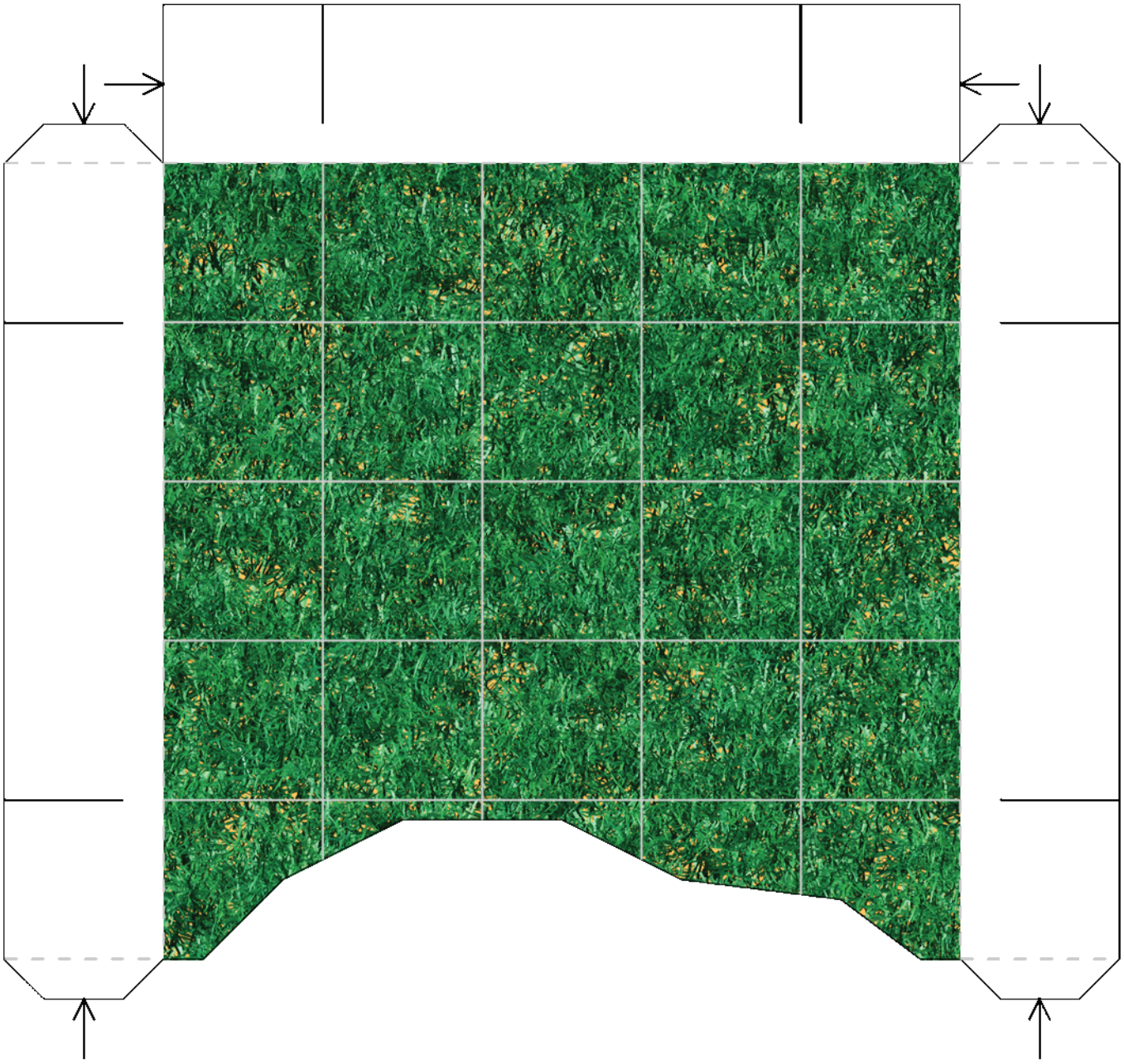


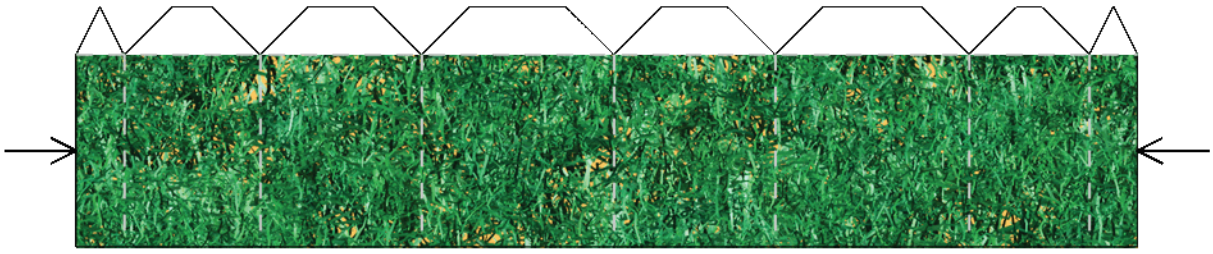
If you want to add use the arches, start by cutting and scoring all four pieces. Glue the large arch to the inside of one of the sides so the arch piece follows the curve of the central arch. Glue the smaller pieces to the smaller arch in the same manner. Fold the opposite side of the main base over and glue that side to the arch pieces. Fold down the remaining two sides and glue the tabs to the inside to finish the assembly.



Using the textures:

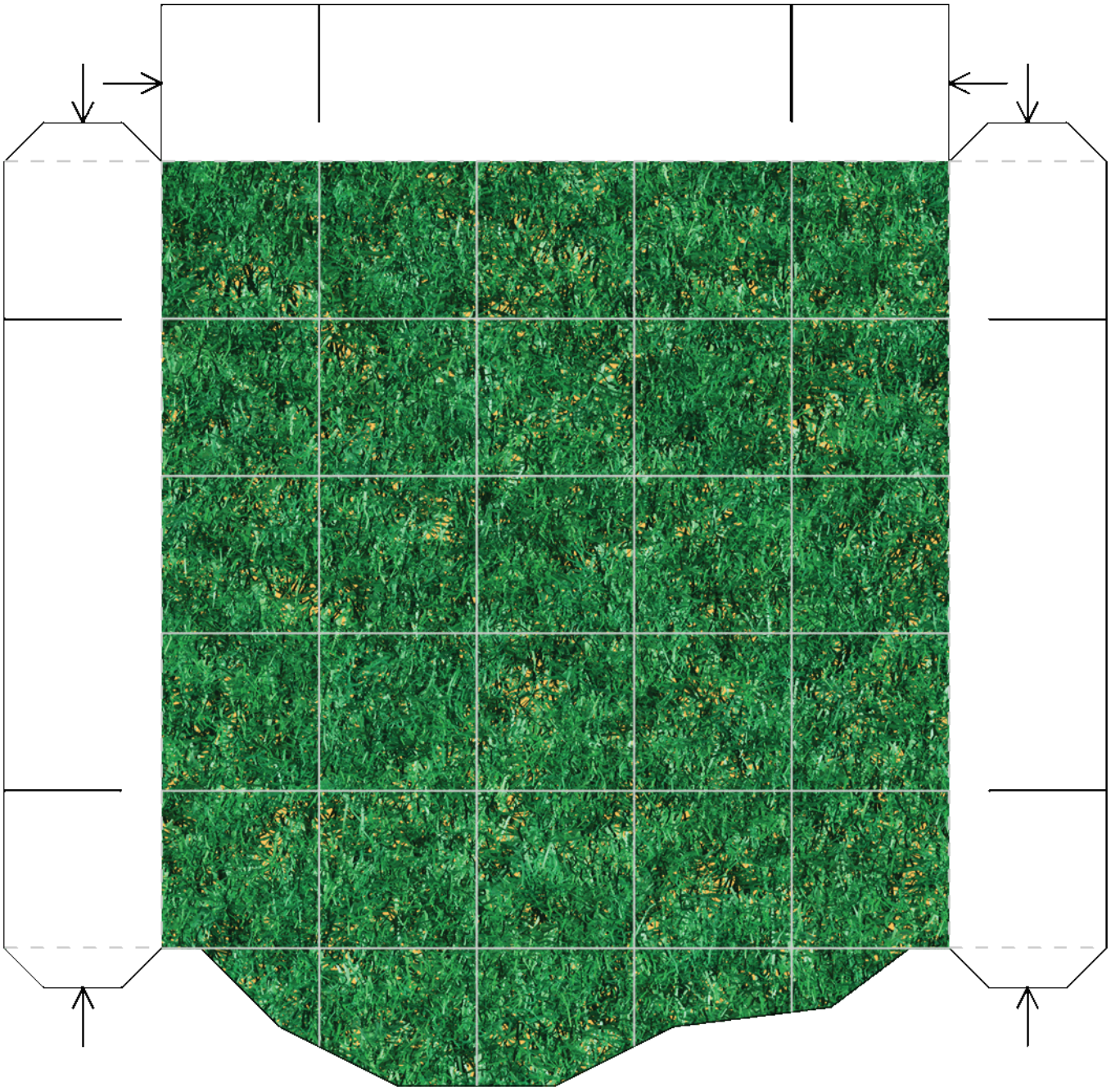
Several textures are included in this pak: grassy, water, and two dirt textures. The grassy texture can form a battle mat. Print out as many copies of the texture as you need, cut away the white space and place the sheets next to one another. You can also tape the pieces together along the back sides of the sheets to keep the sheets together. The other textures are meant to be placed on top of the hills or the battle mat. Cut roads, rivers, riverbeds and lakes out of the texture sheets and place on top of the hills or the battle mat. The pieces can be secured with glue, but using temporary glue or a removable double-sided tape will allow you to remove the textures and reuse pieces.



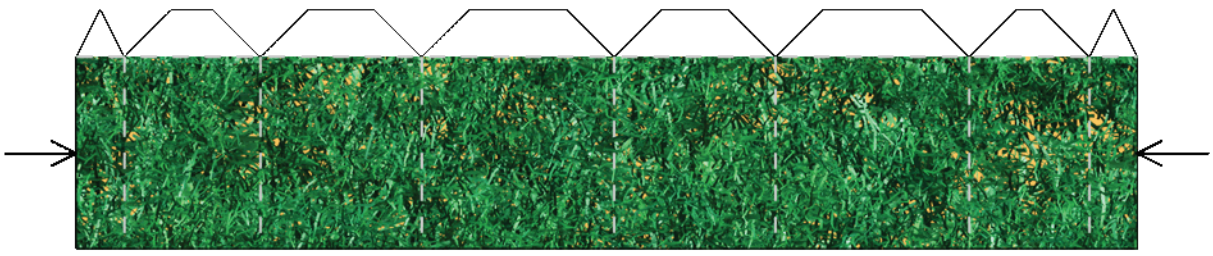


1-sided 1 (A1)

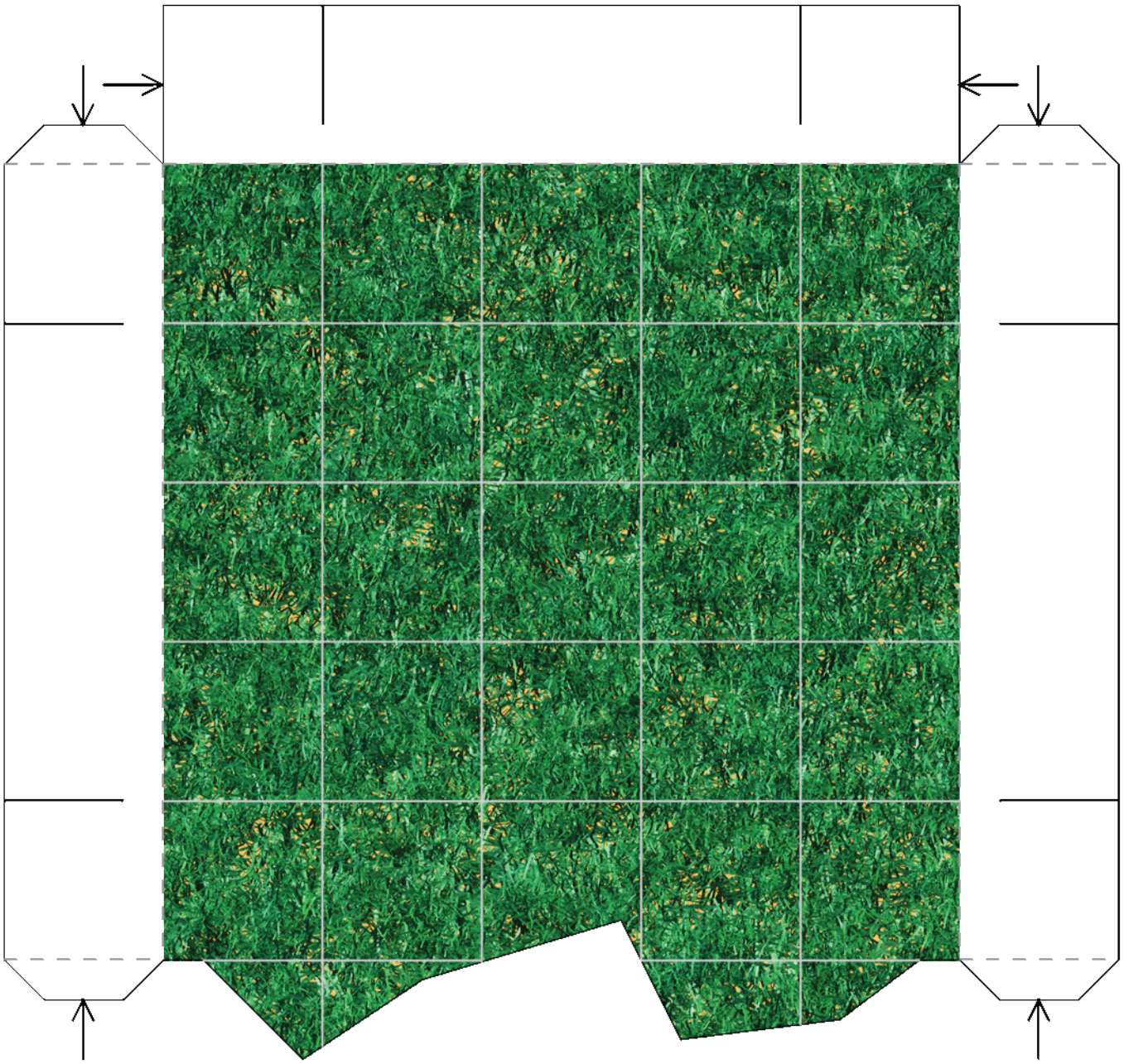
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



1-sided 2 (A2)

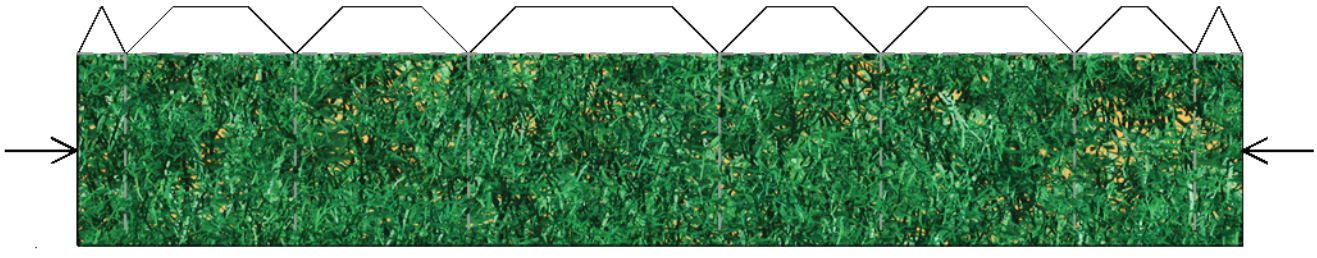


Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

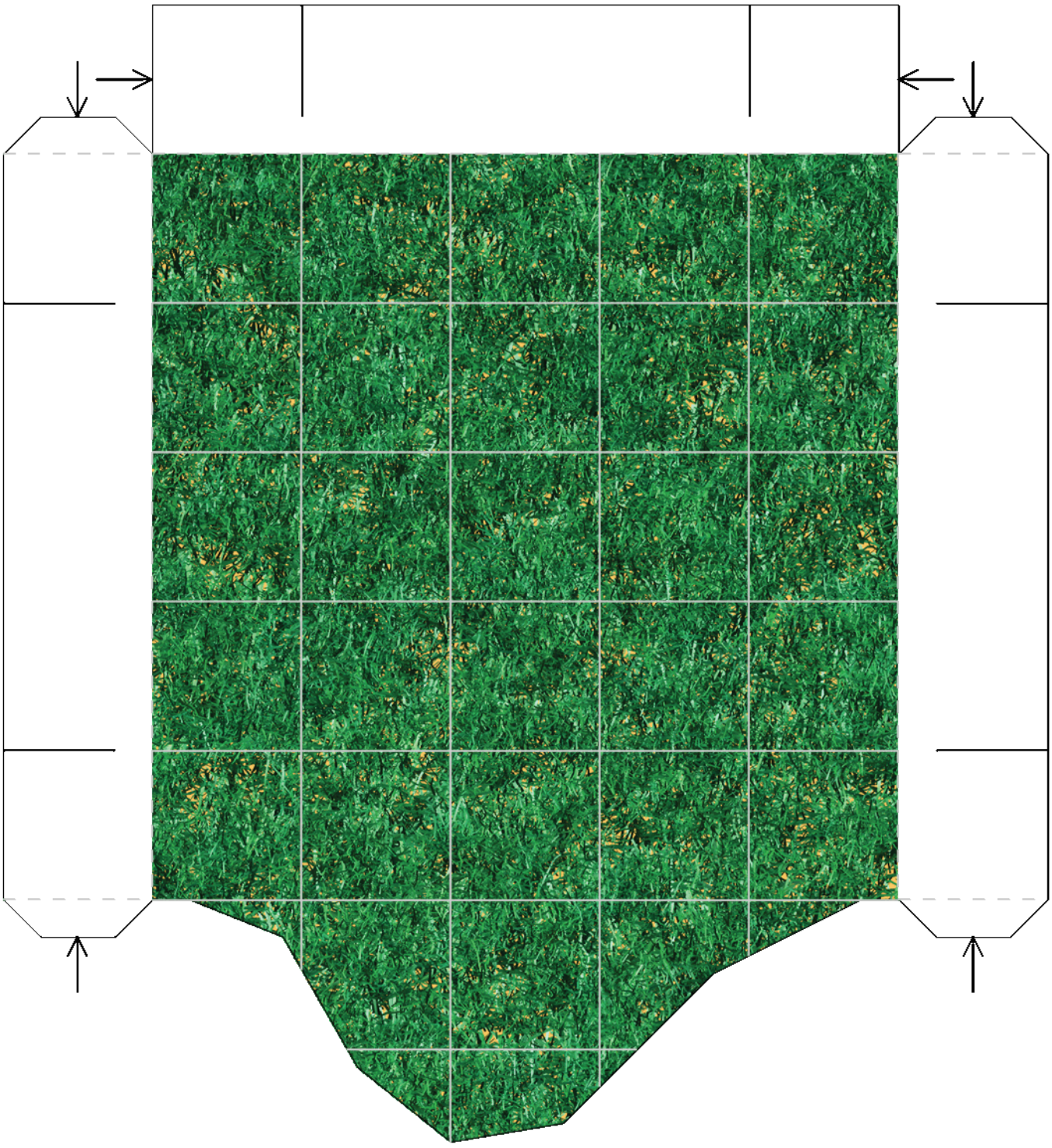


Paper Playground

1-sided 3 (A3)

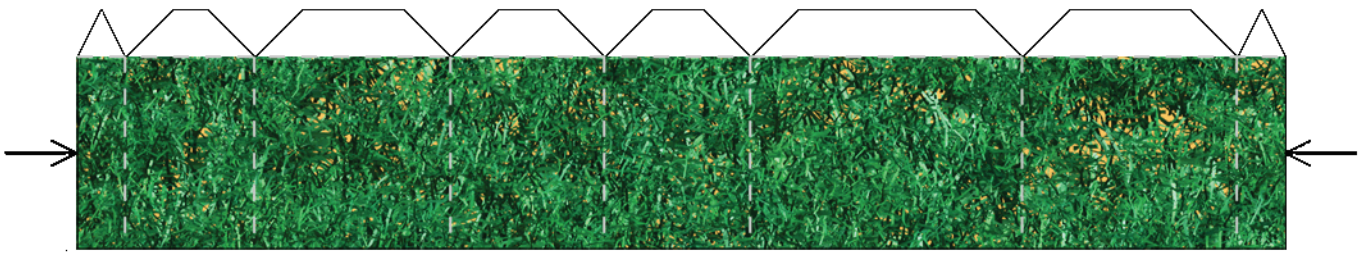


Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

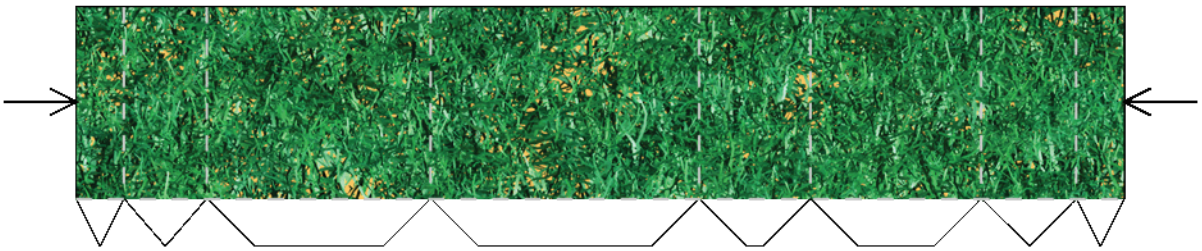


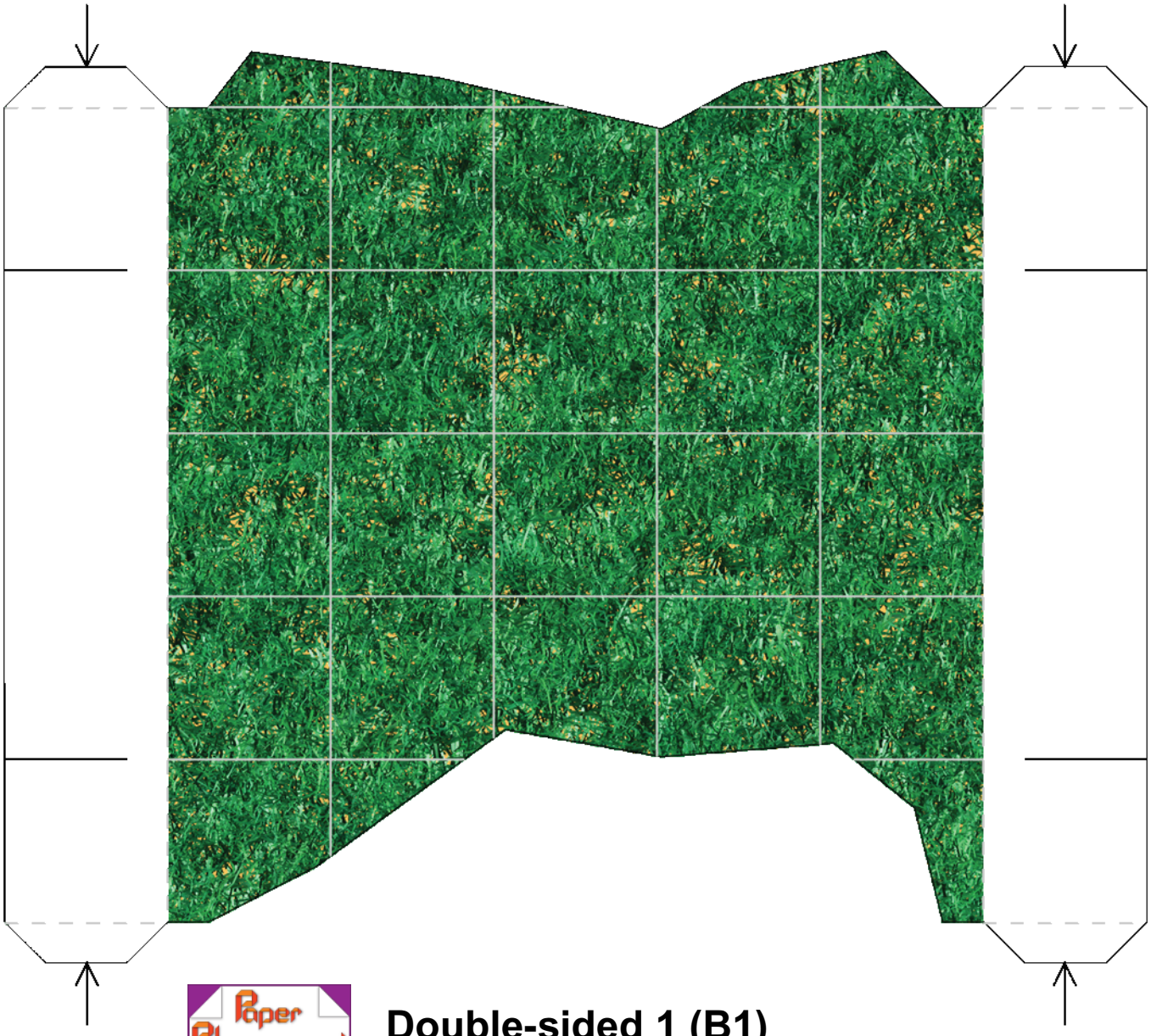
Paper Playground

1-sided 4 (A4)



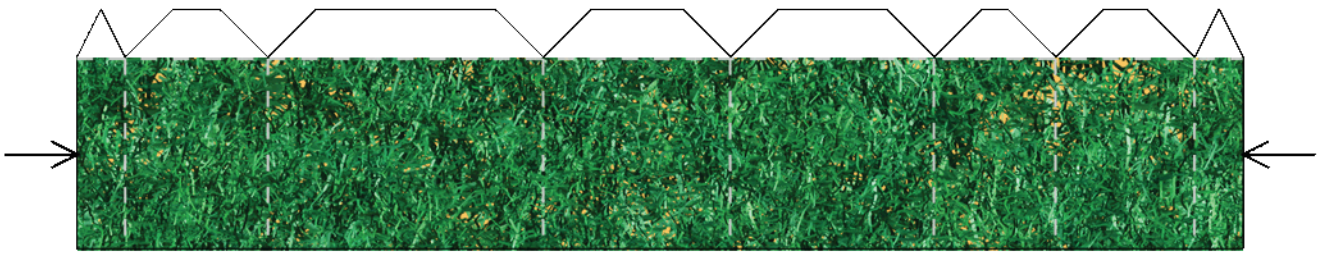
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



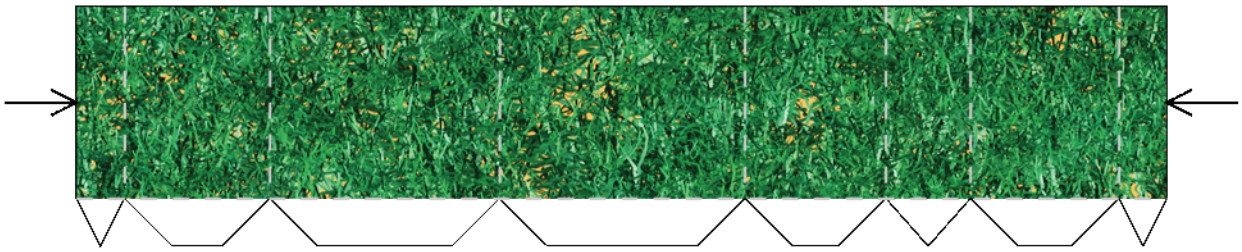


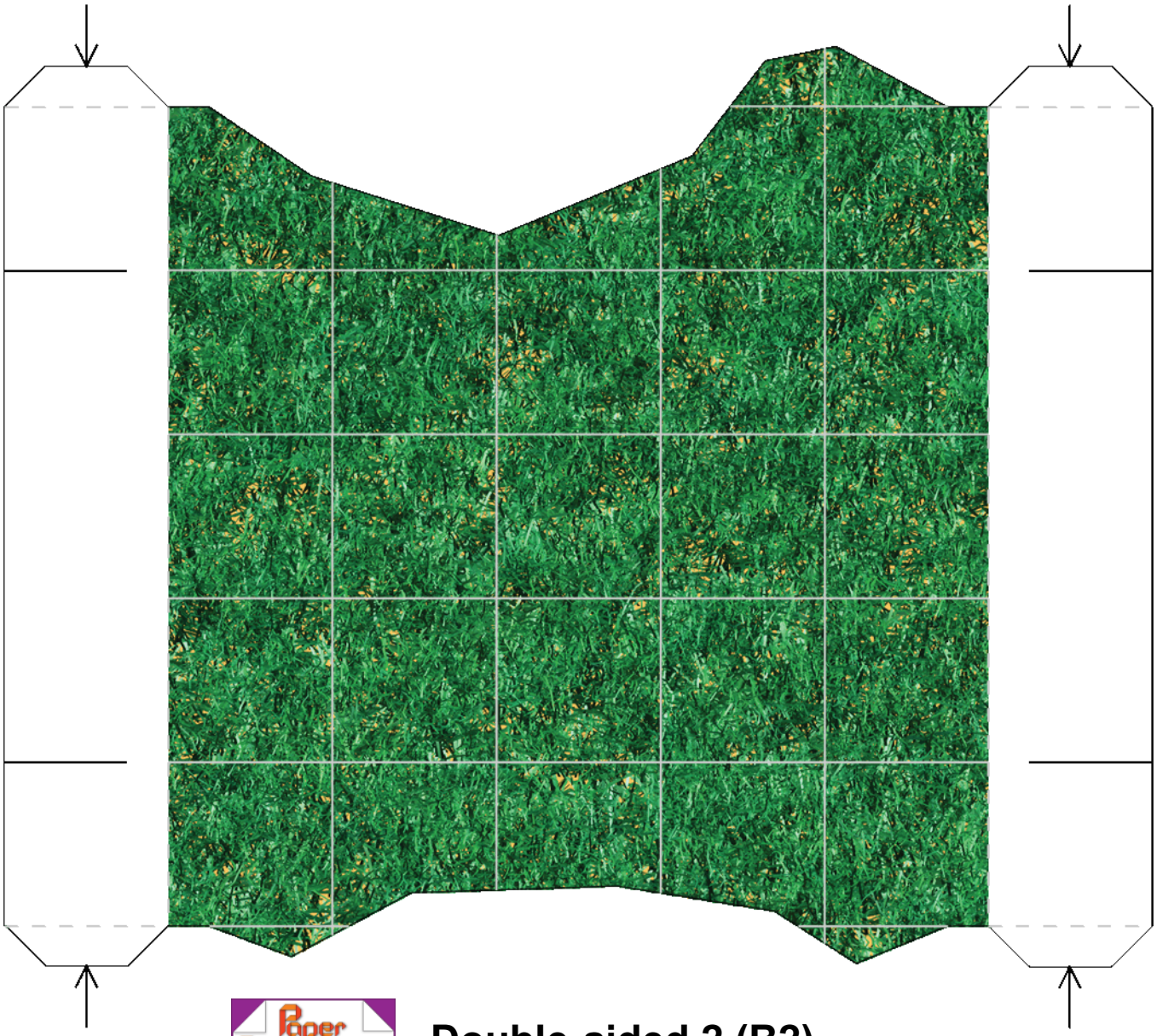
Paper Playground

Double-sided 1 (B1)



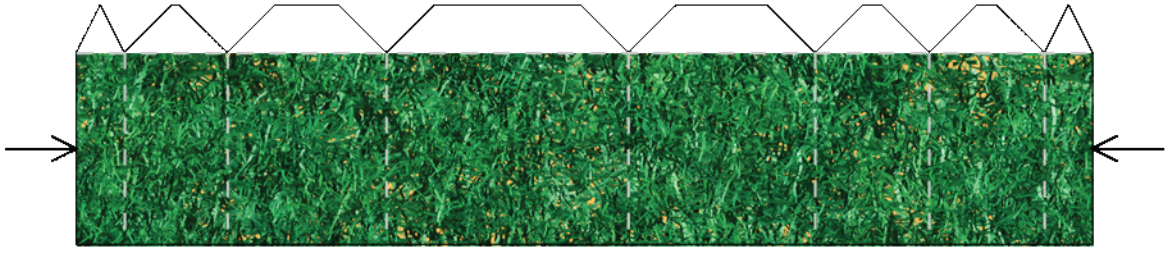
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



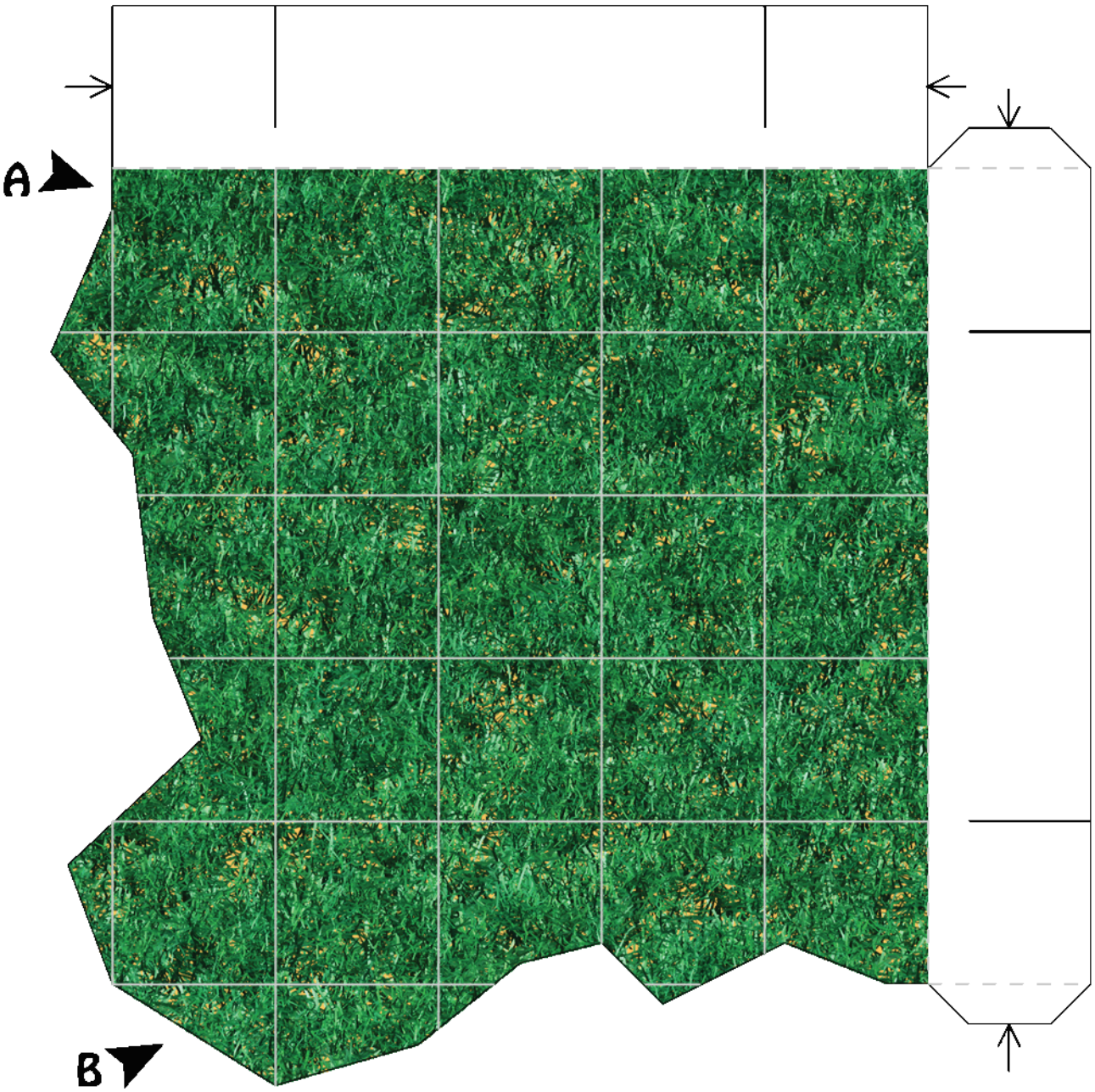


Paper Playground

Double-sided 2 (B2)



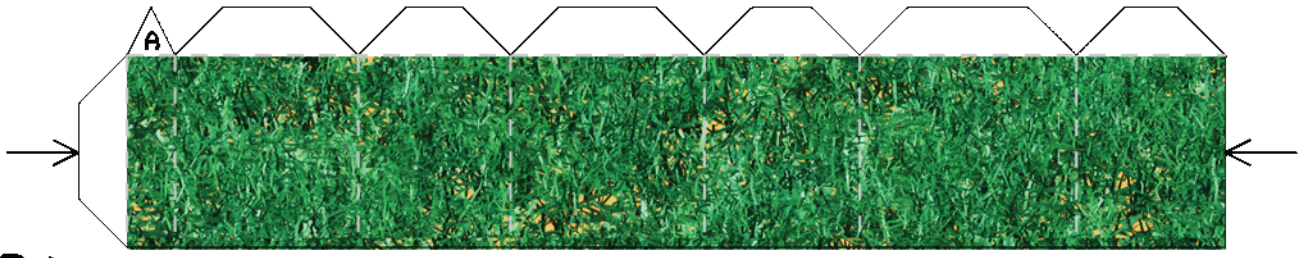
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



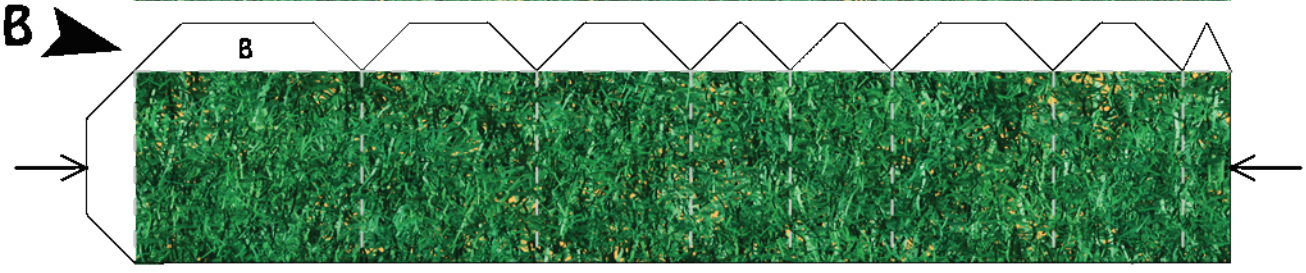
Paper Playground

Corner 1 (C1)

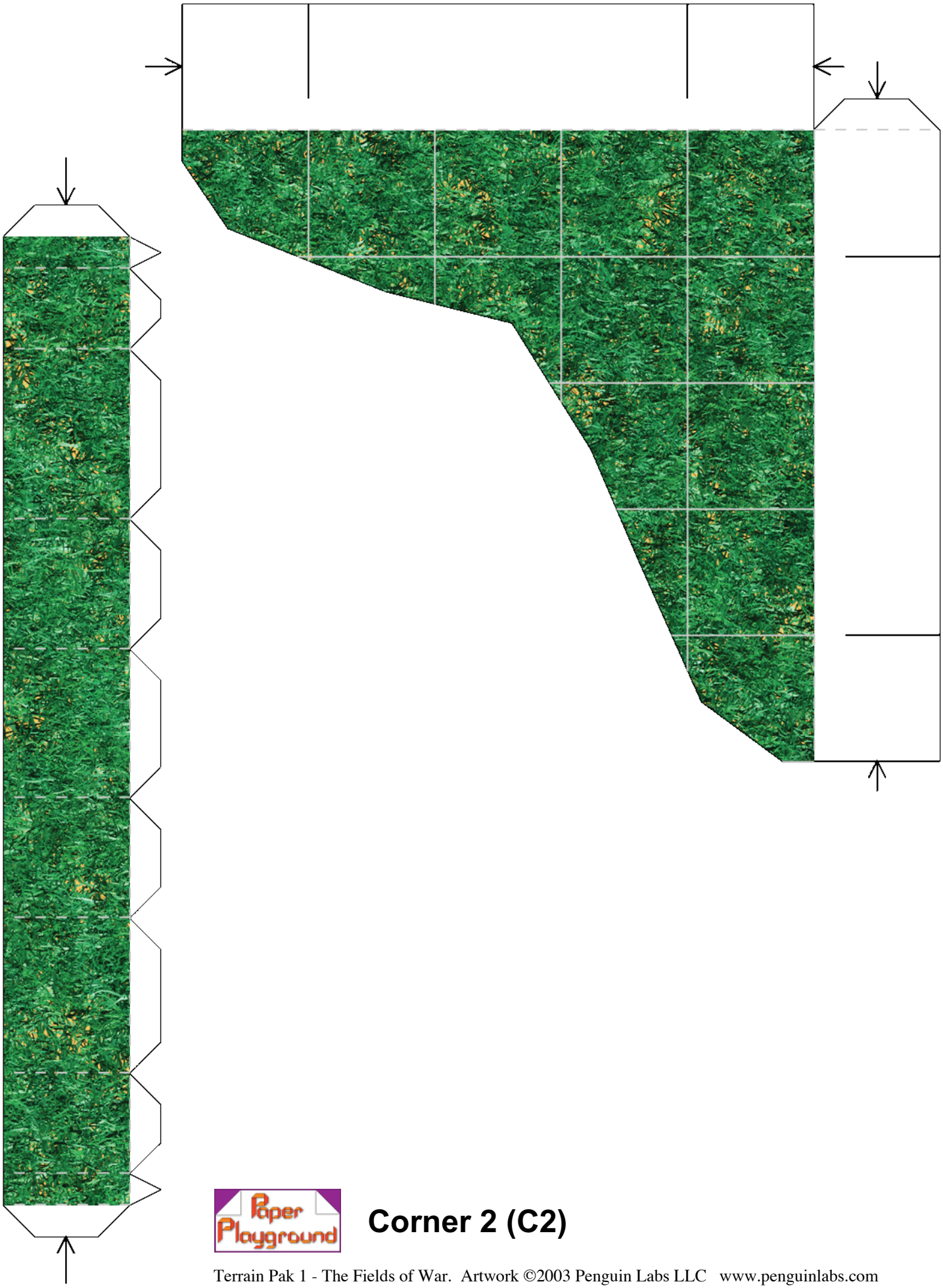
A



B

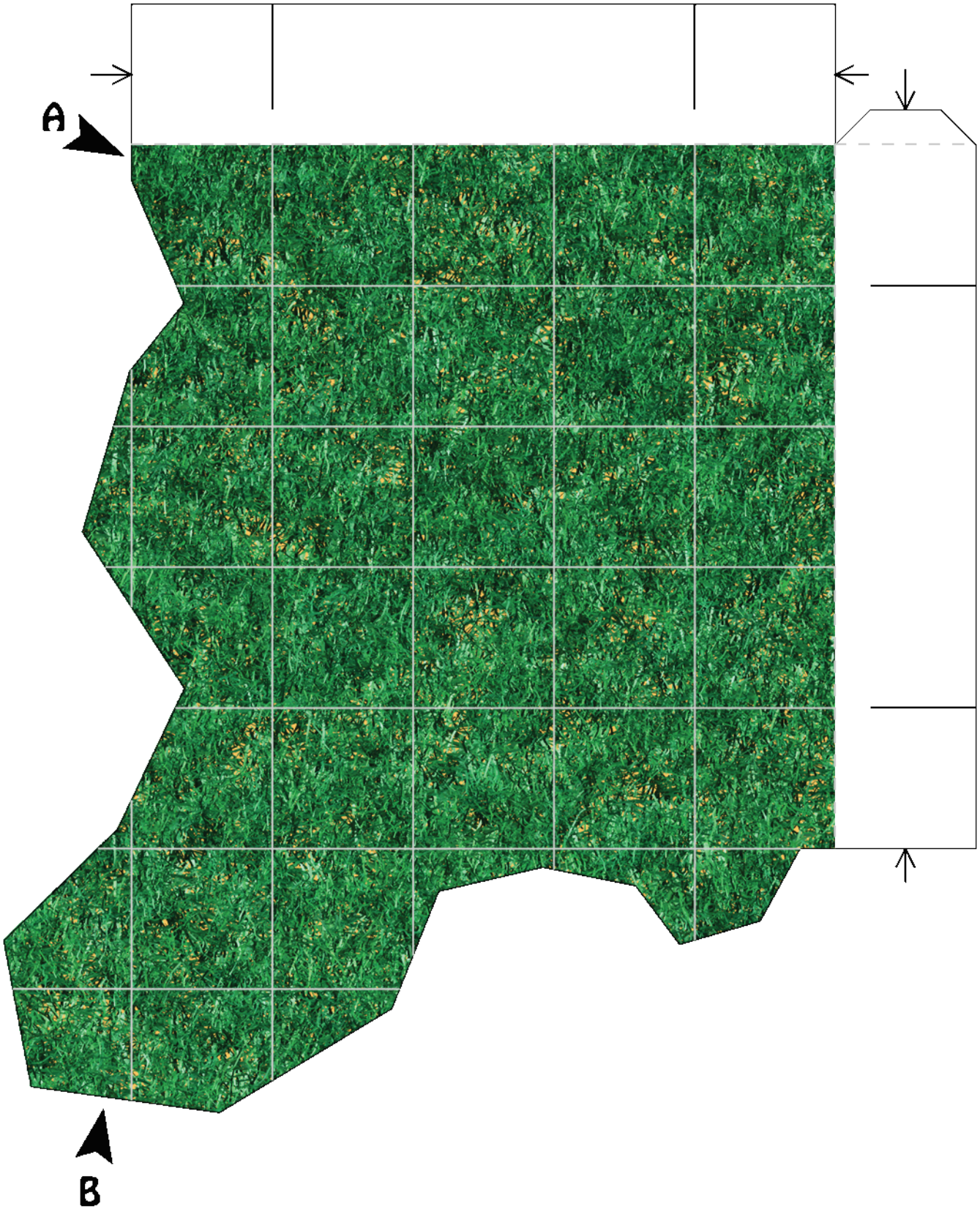


Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



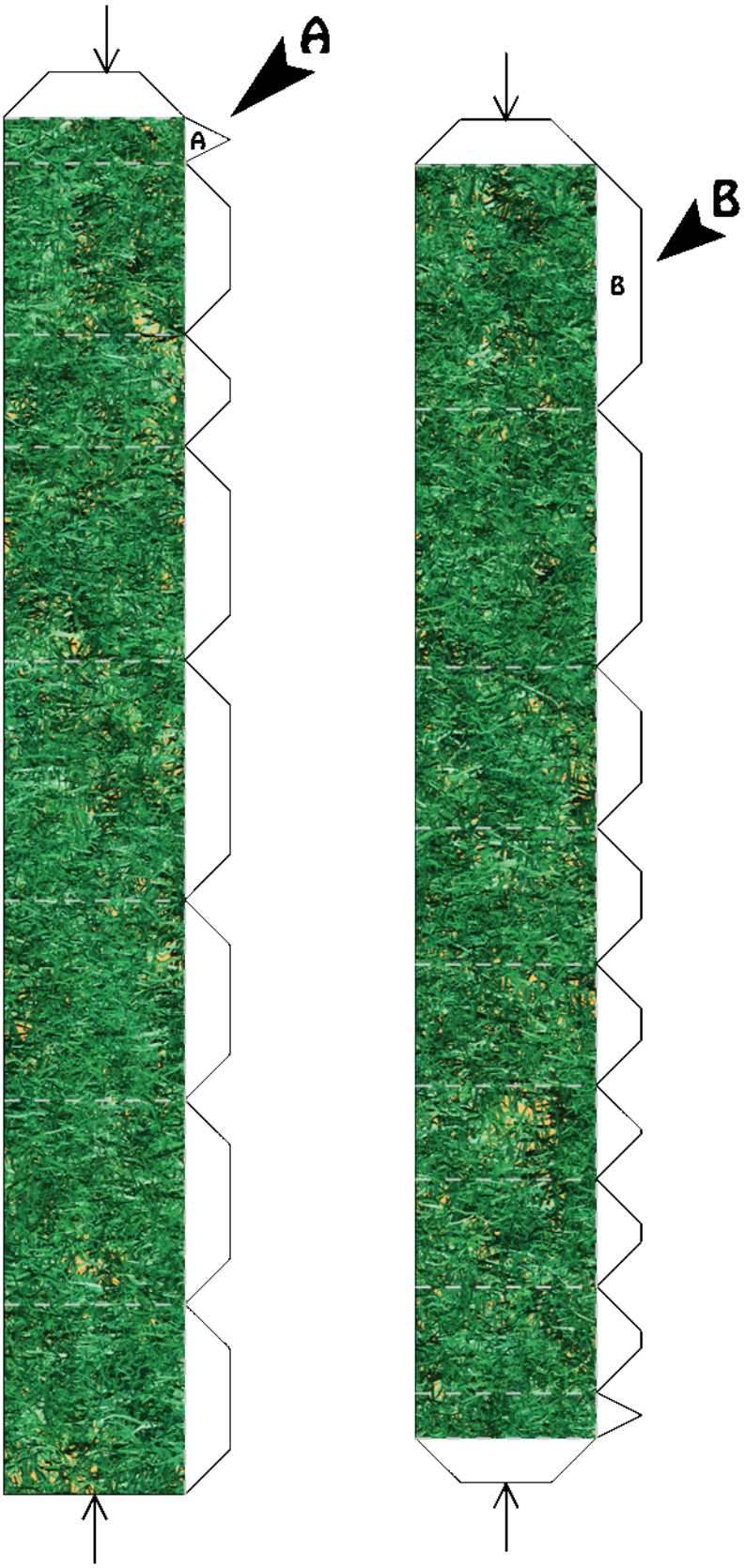
Corner 2 (C2)

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



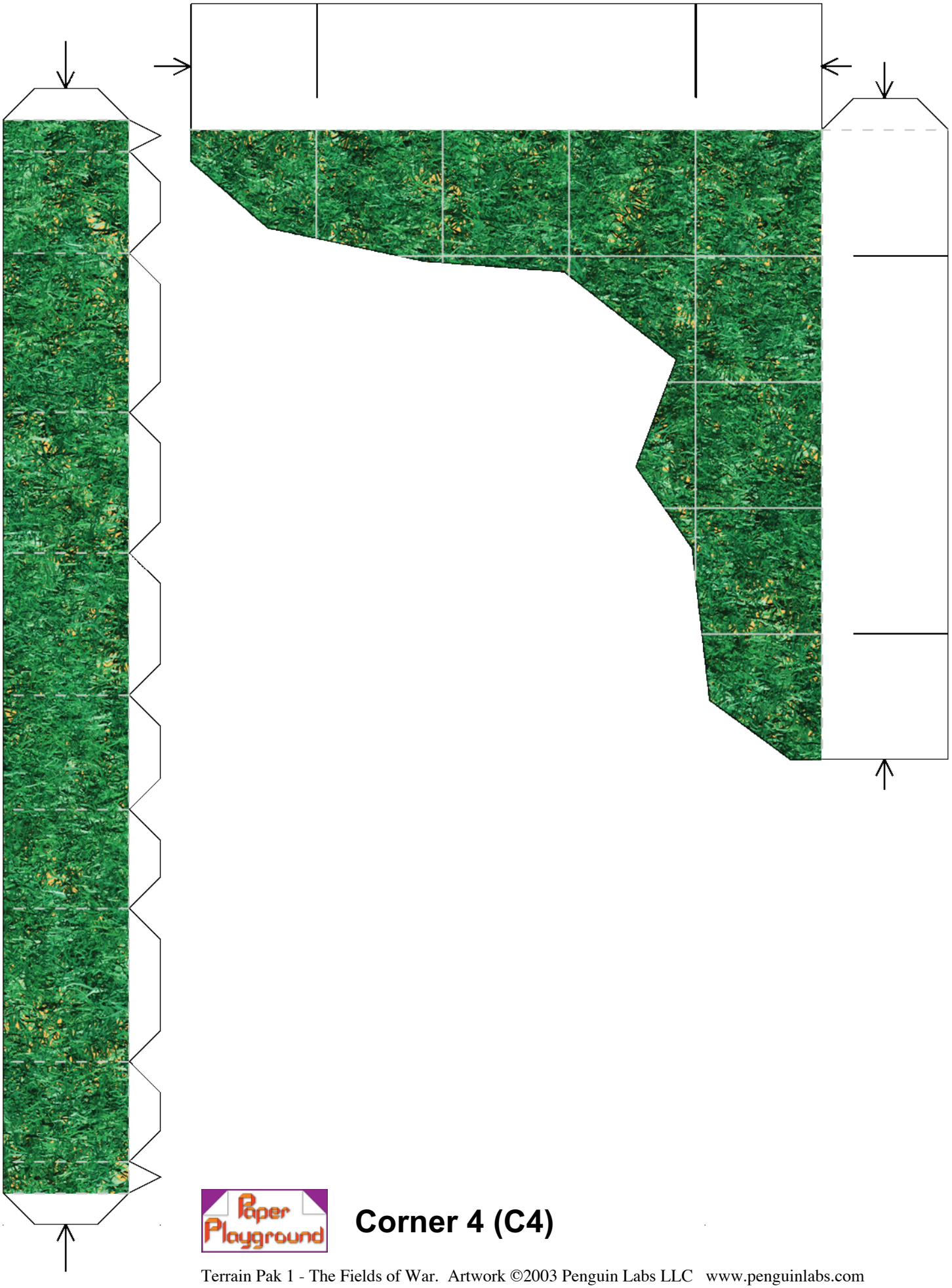
Corner 3 (C3)

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



Corner 3 (C3) - Skirt strips

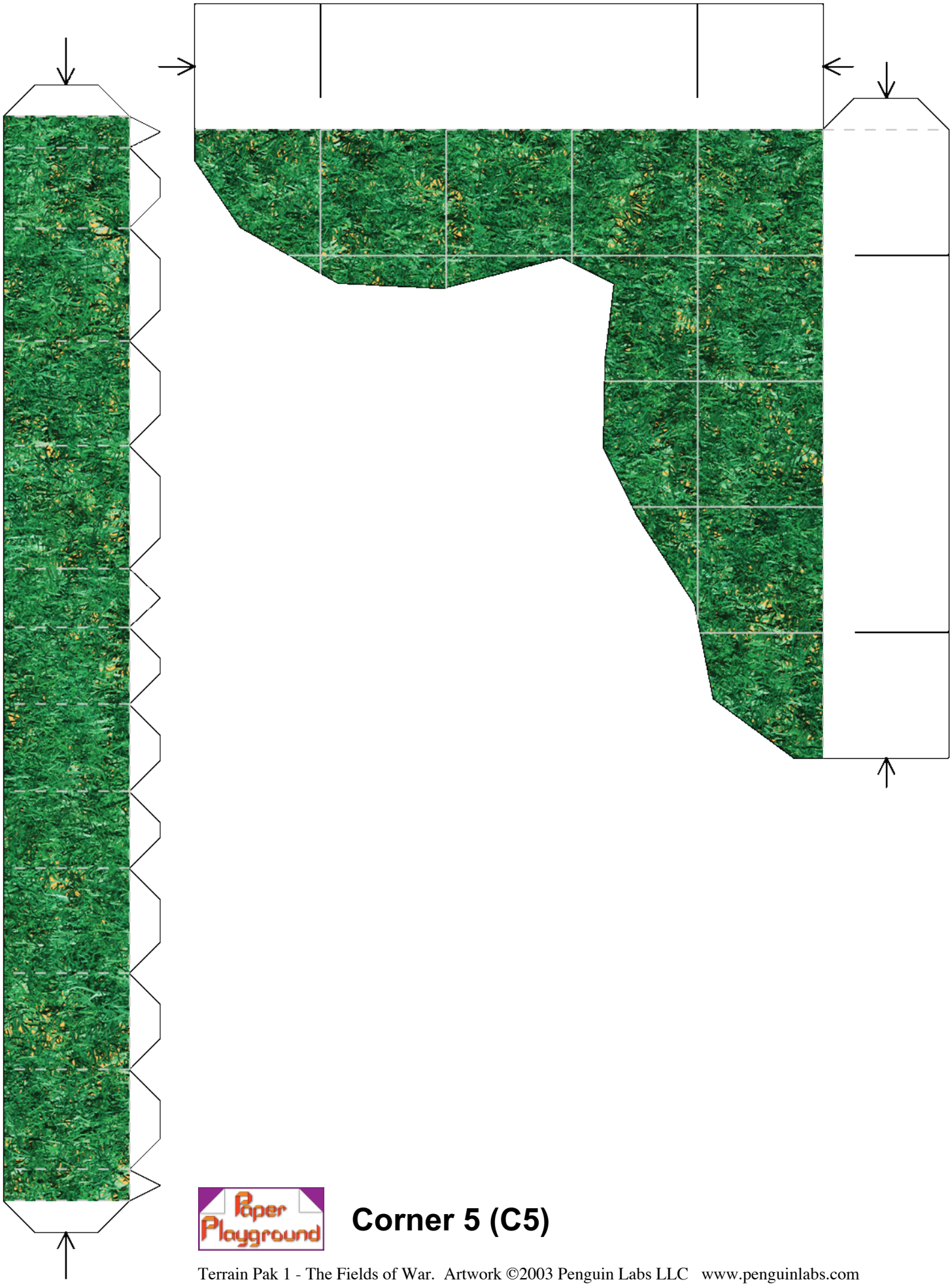
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



Paper Playground

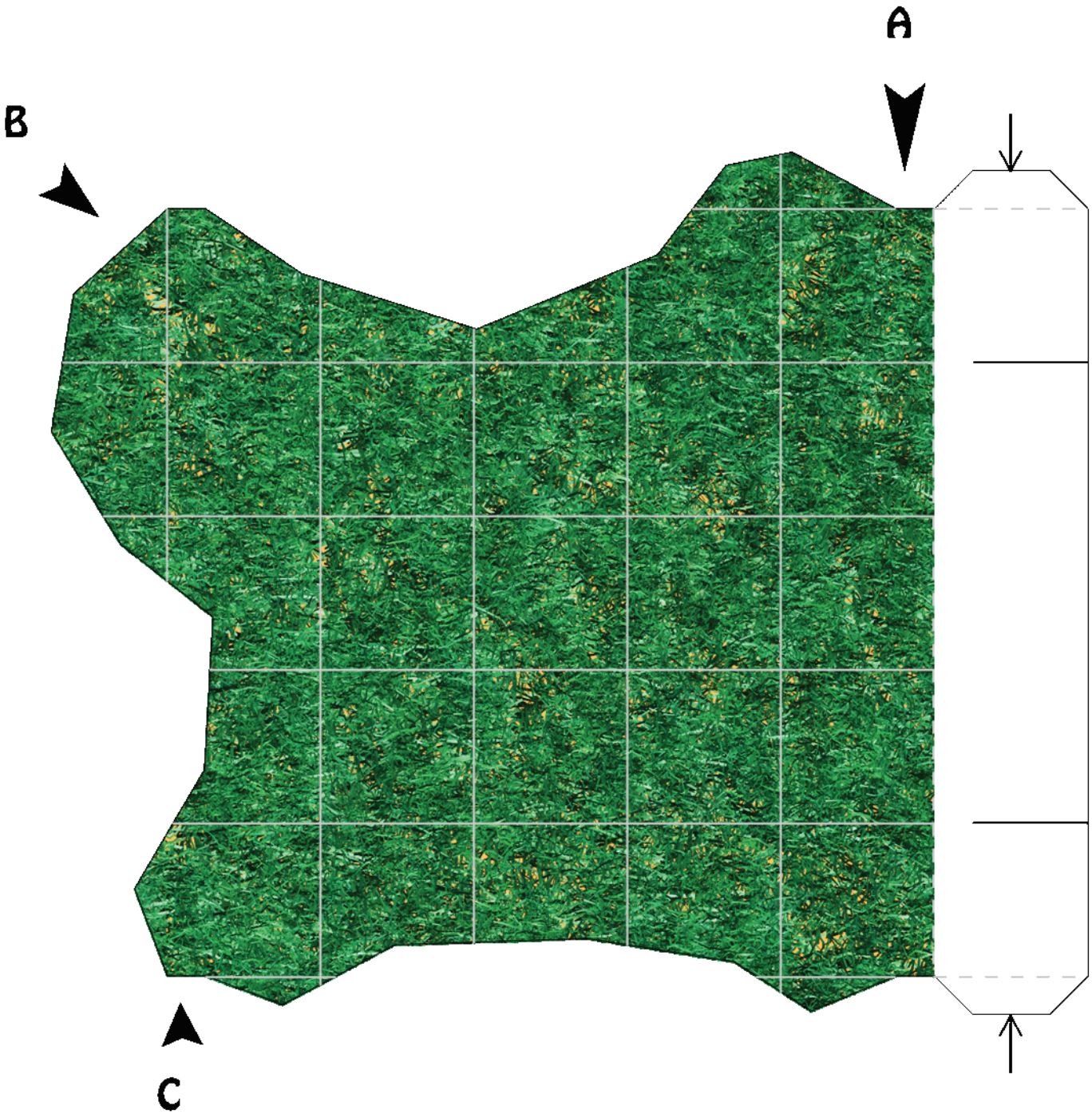
Corner 4 (C4)

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



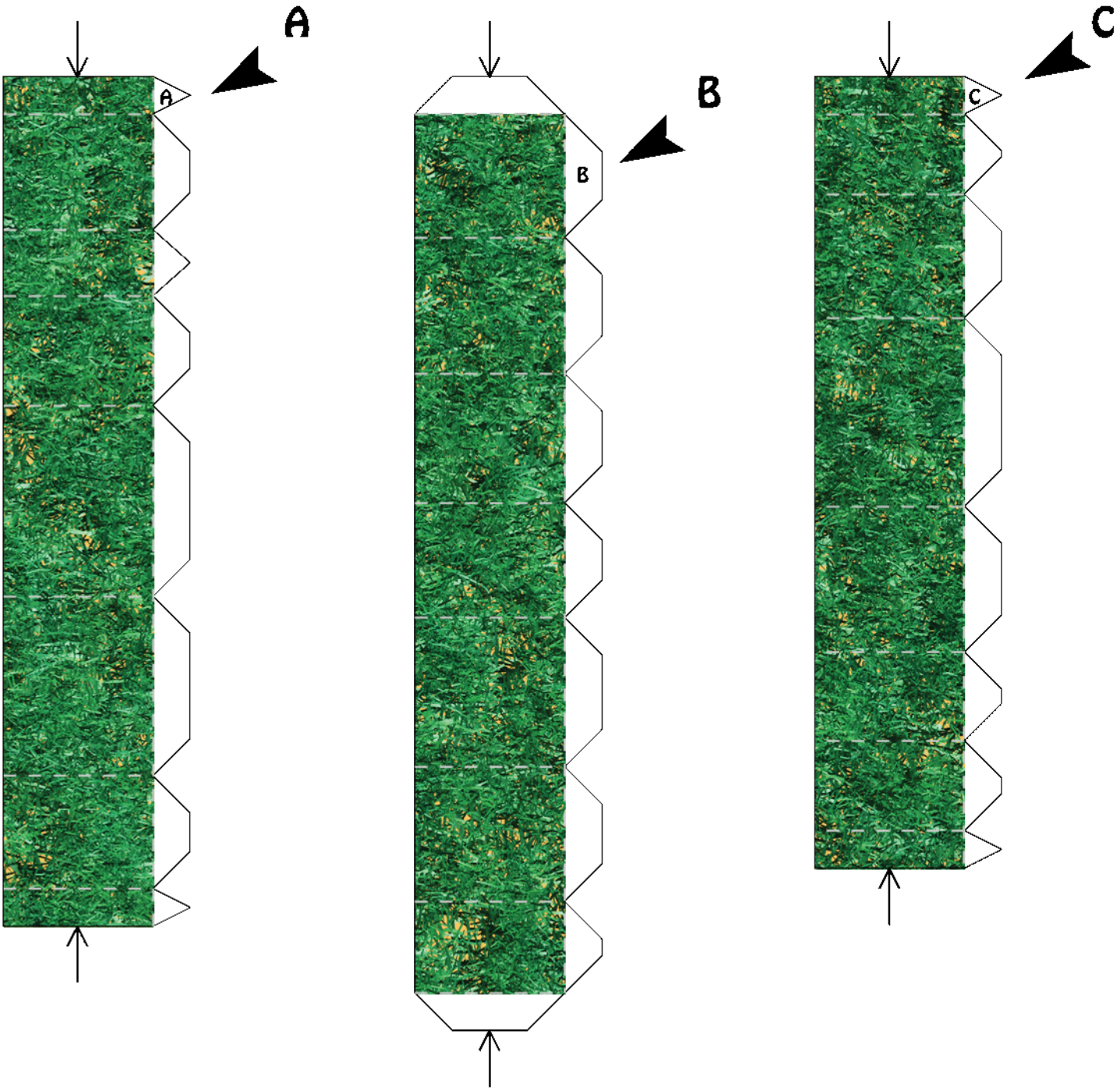
Corner 5 (C5)

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



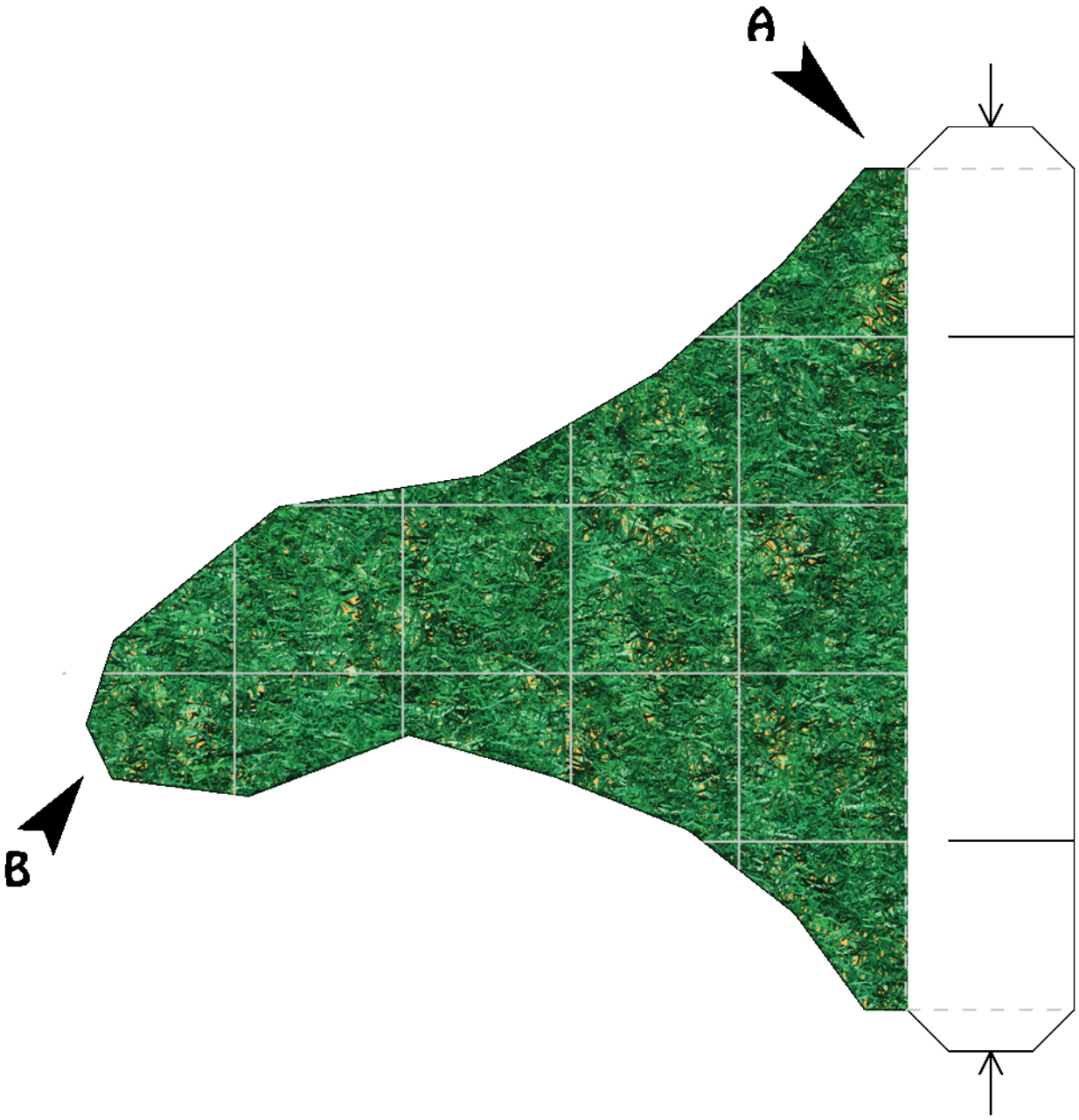
3-sided 1 (D1)

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



3-sided 1 (D1) - Skirt strips

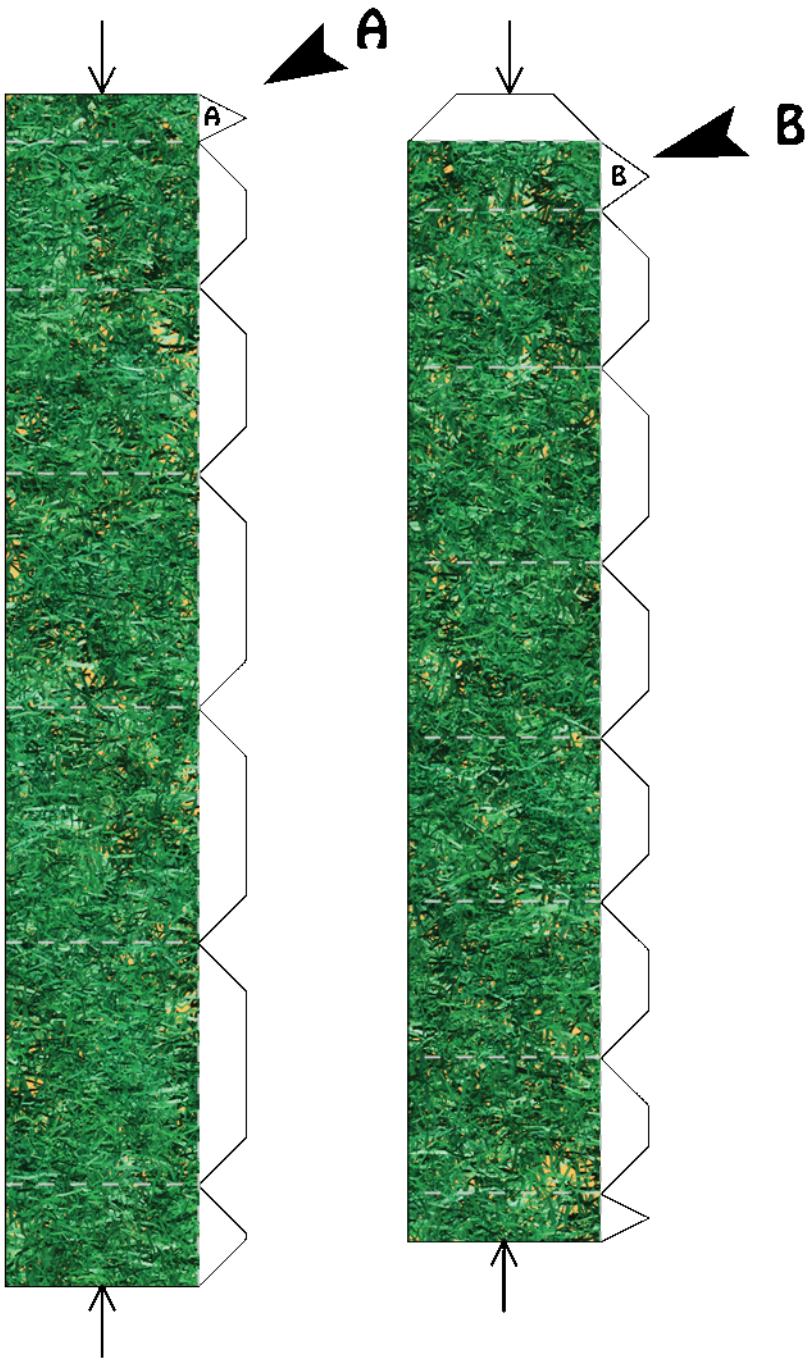
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



Paper Playground

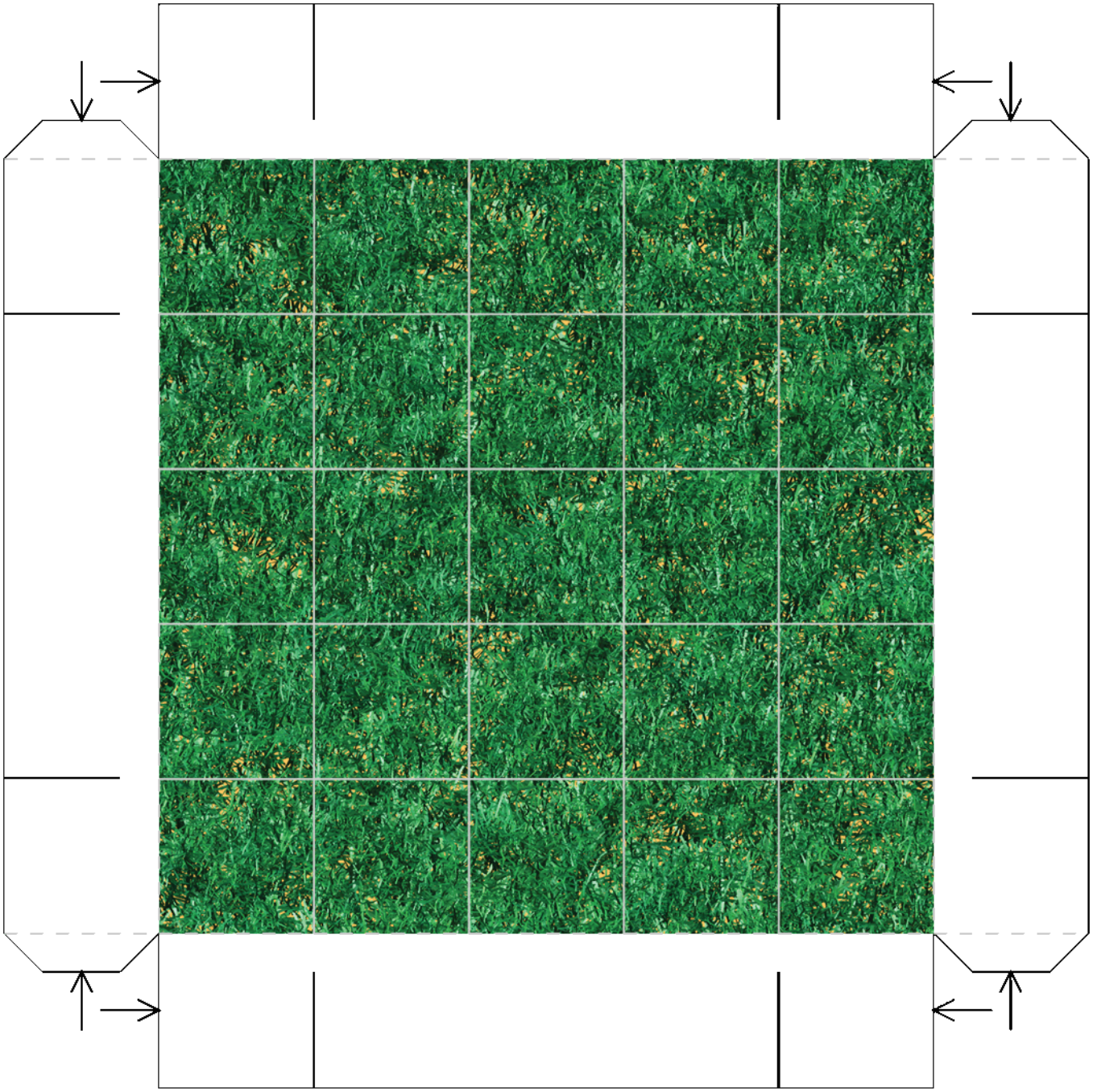
3-sided 2 (D2)

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



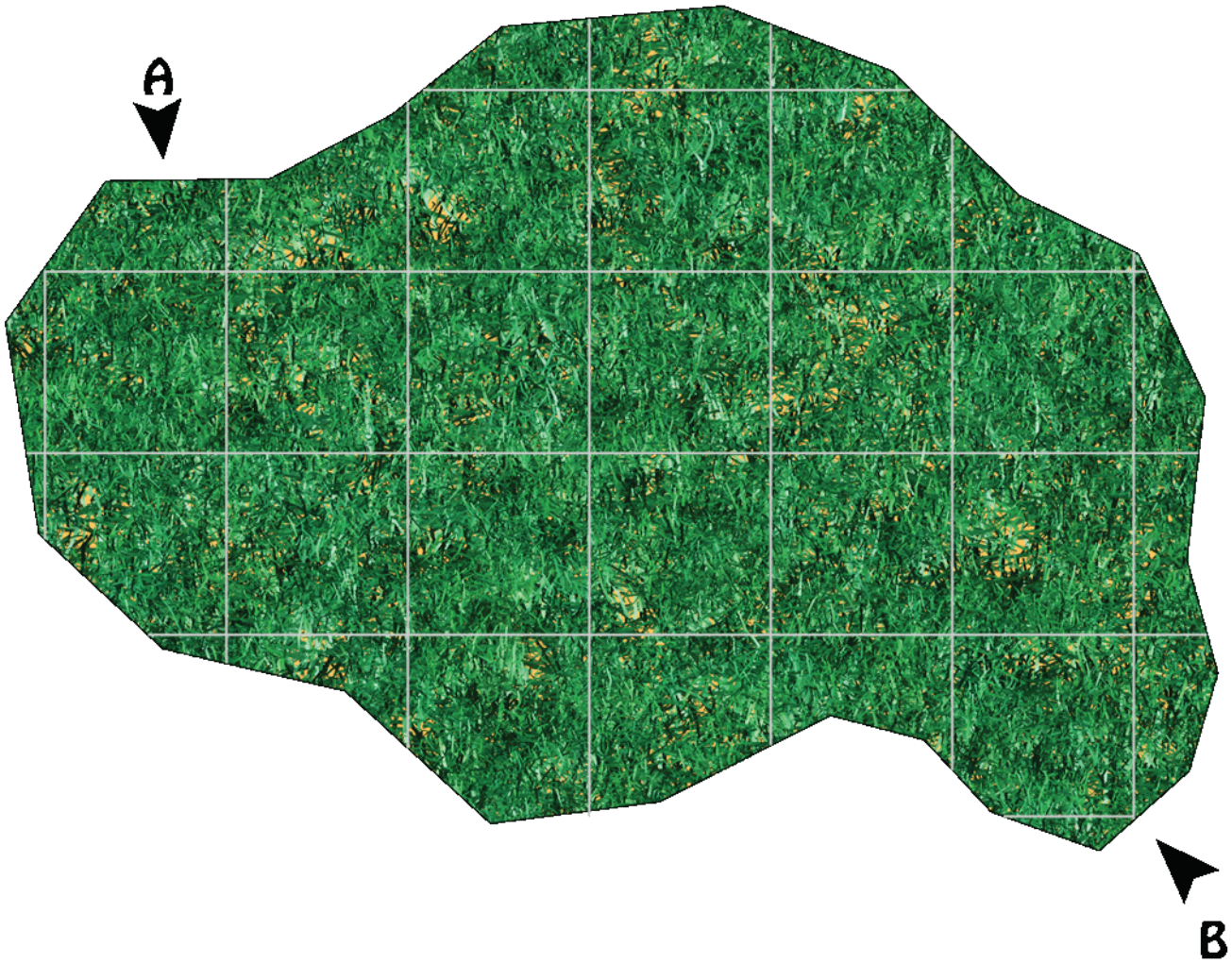
3-sided 2 (D2) - Skirt strips

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



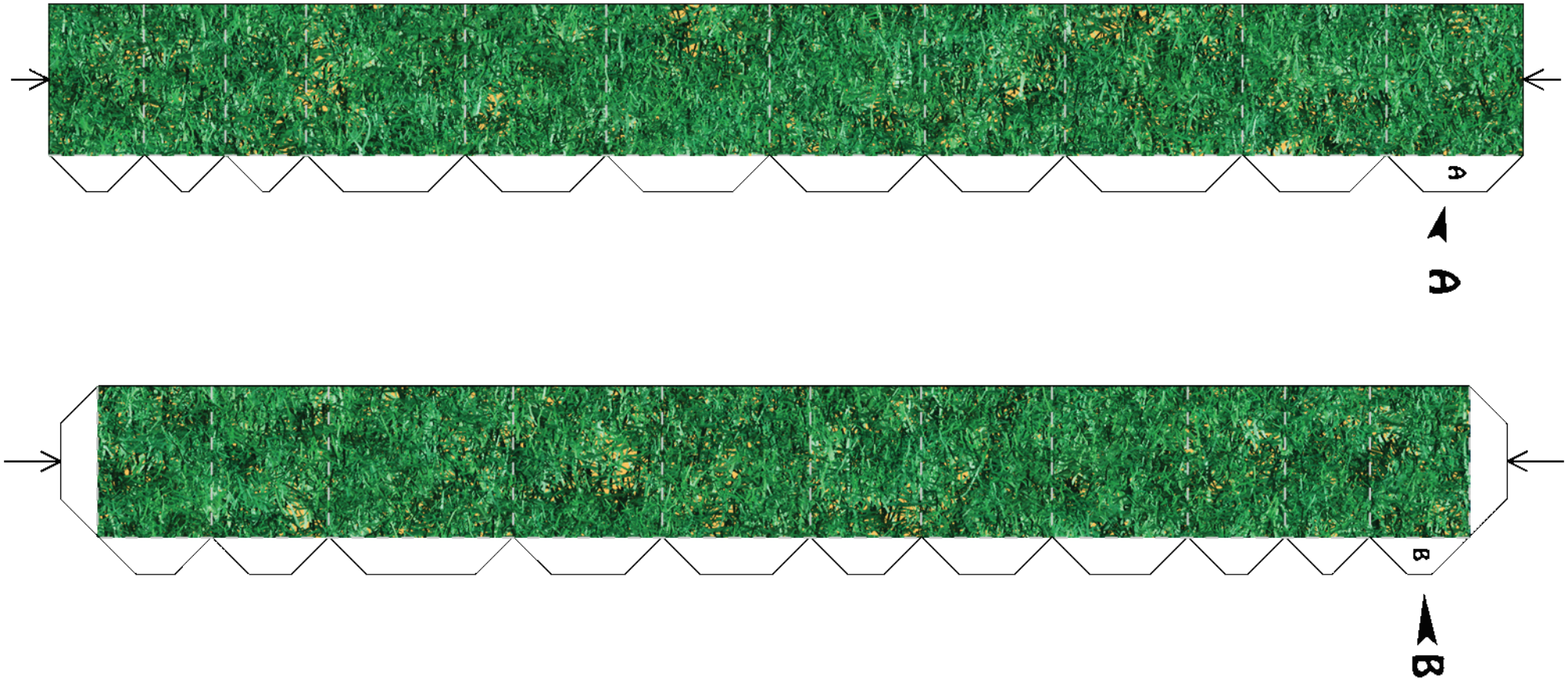
Basic Connector Hill (E)

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



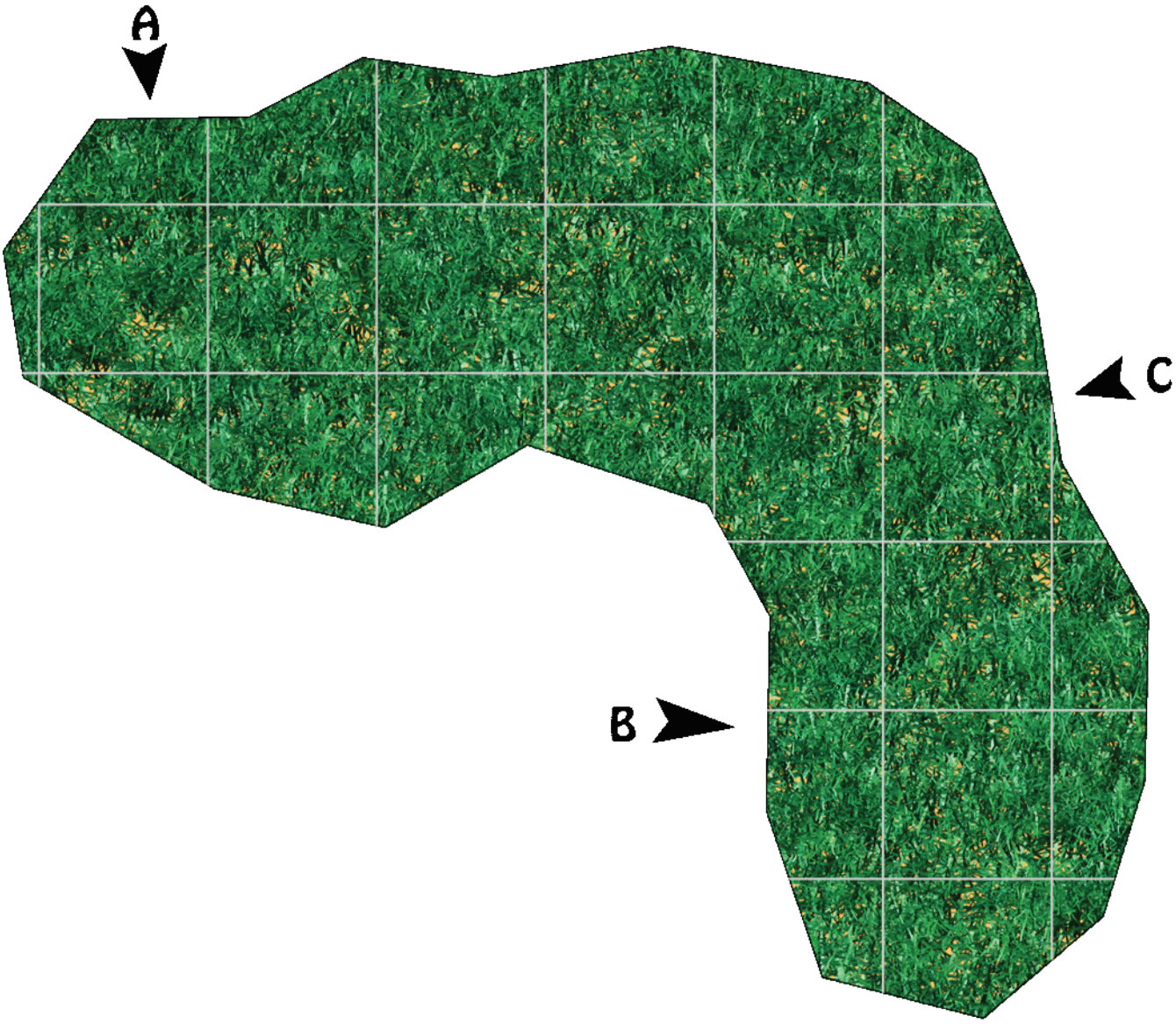
Stand-alone 1 (F1)

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



Stand-alone 1 (F1) - Skirt strips

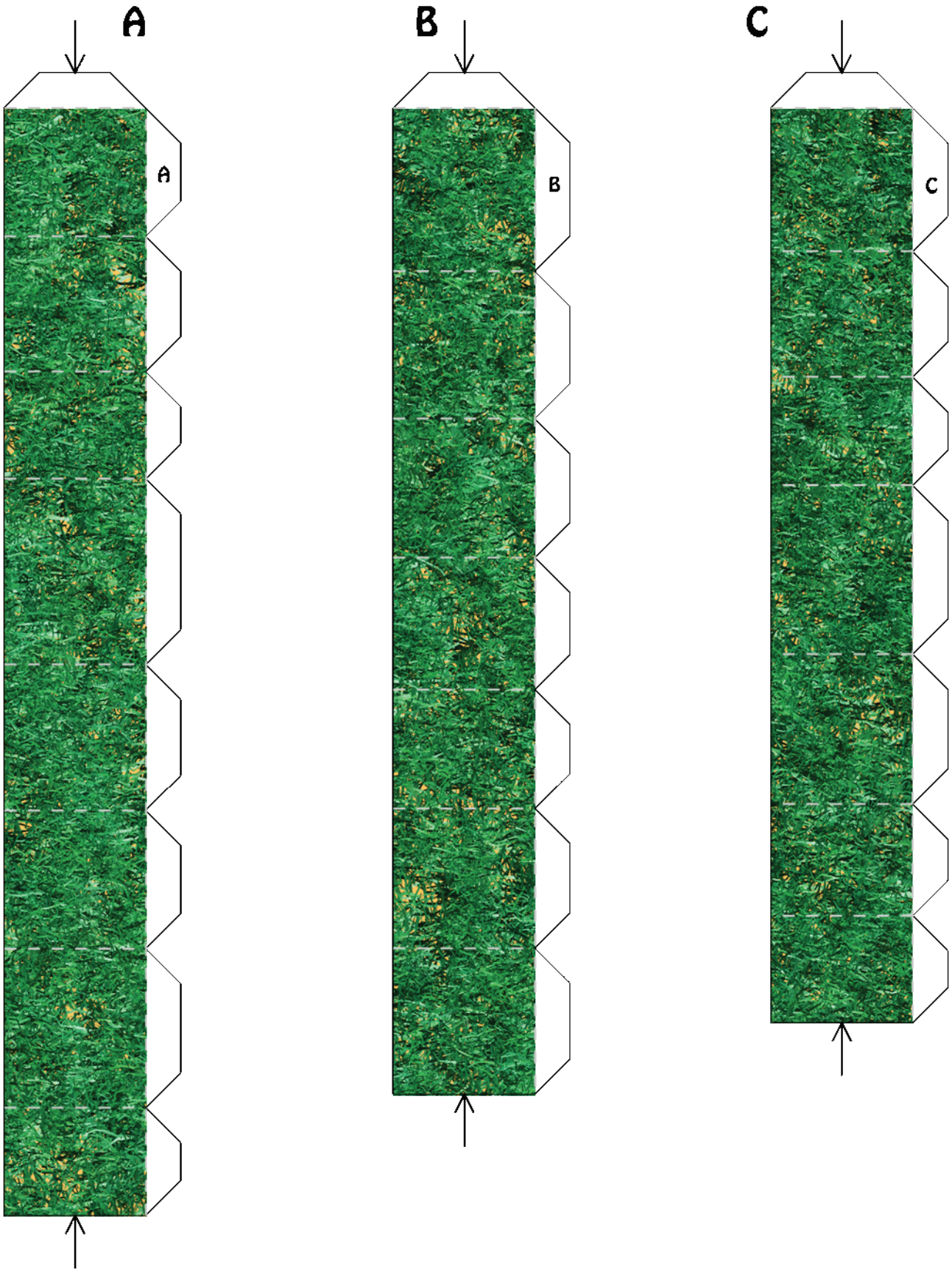
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



Paper Playground

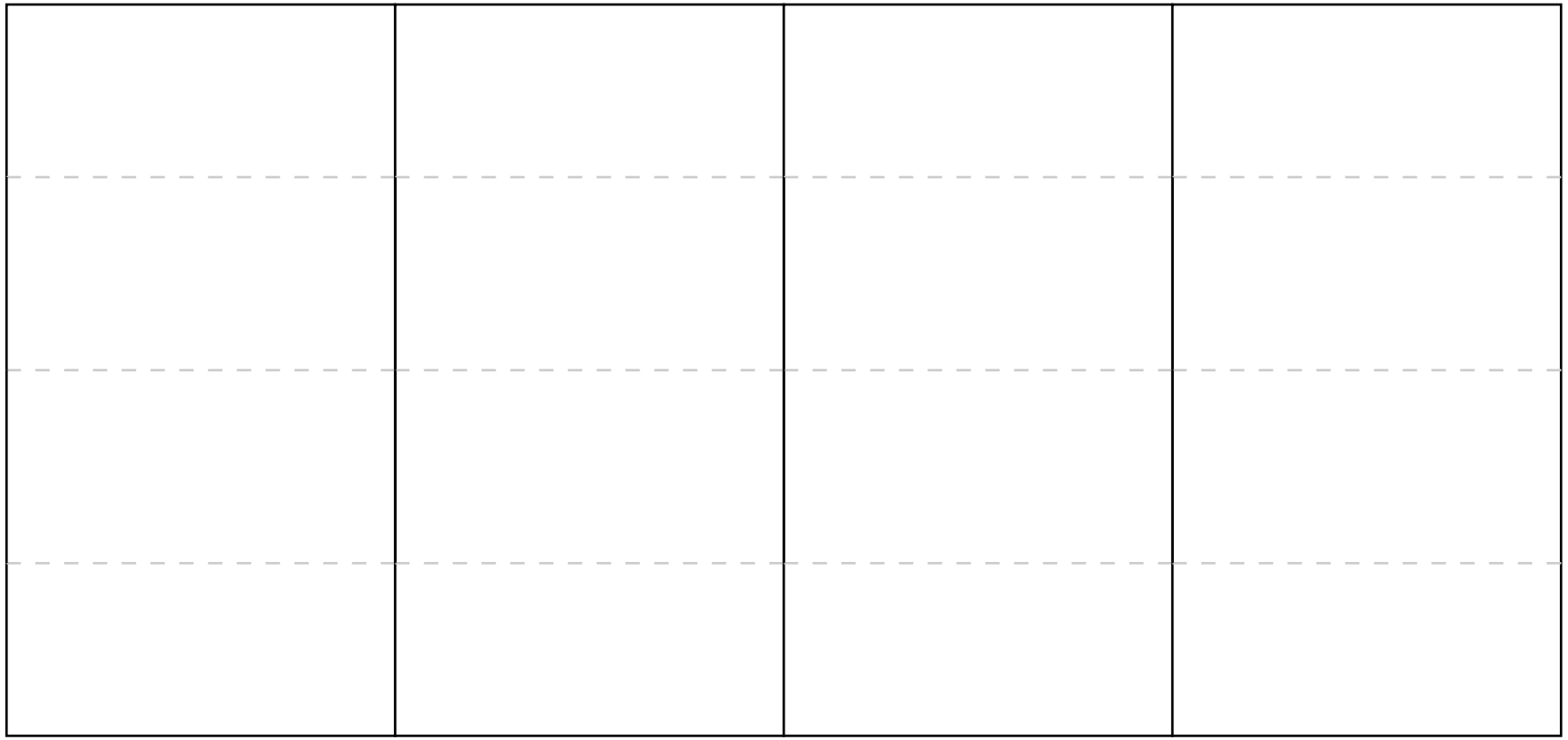
Stand-alone 2 (F2)

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



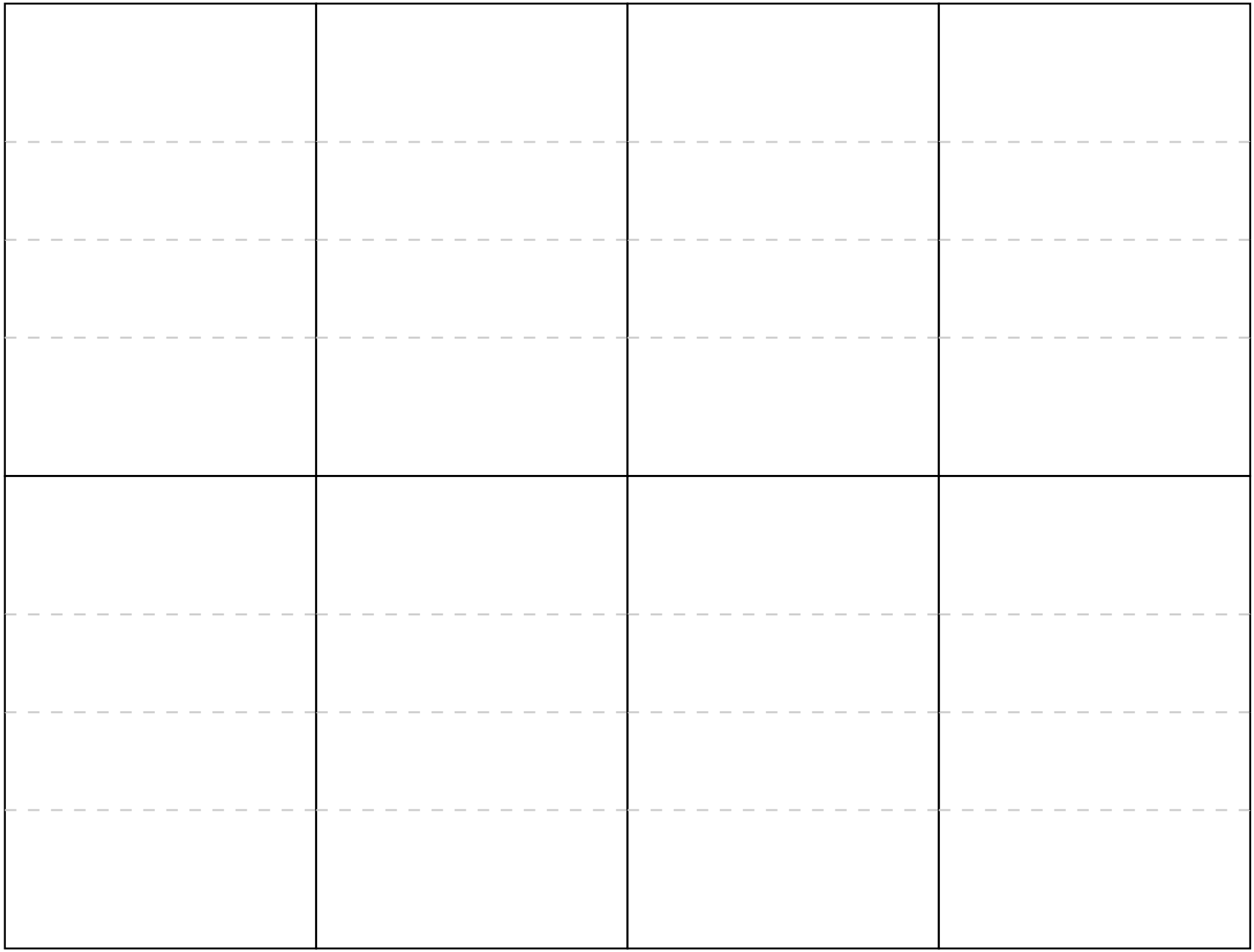
Stand-alone 2 (F2) - Skirt strips

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



Supports for inch high hills

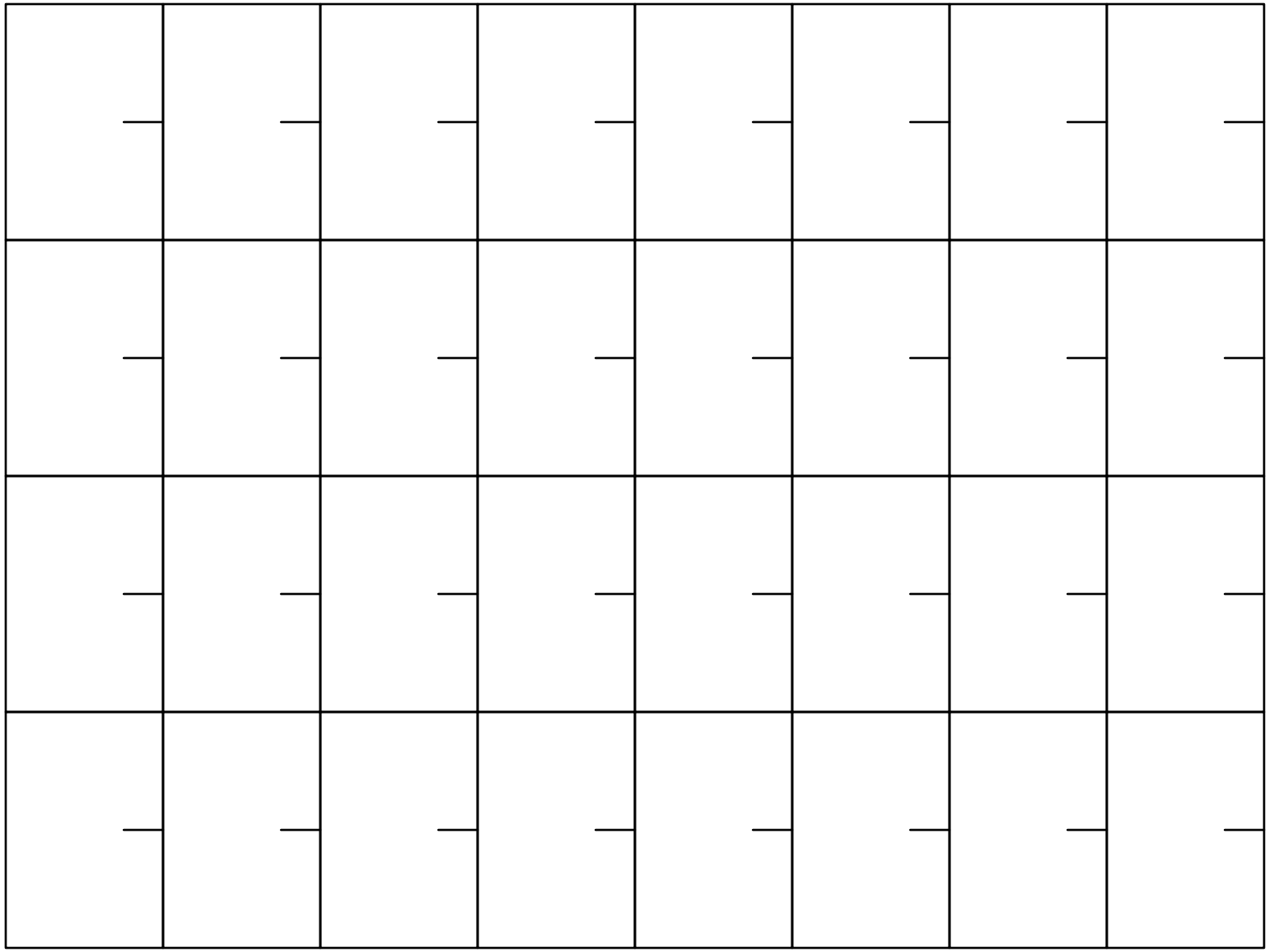
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

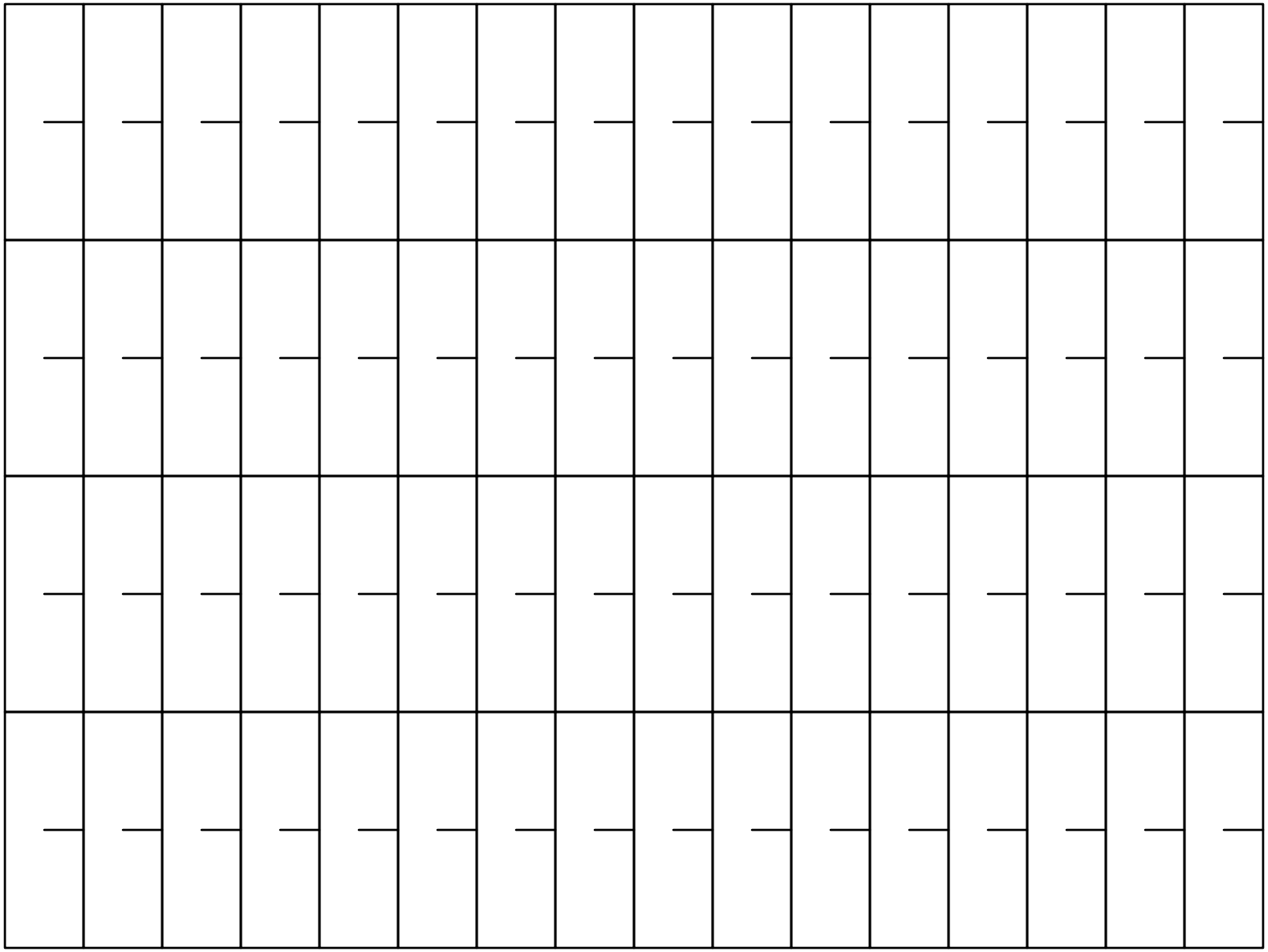
Paper Playground

Supports for half inch high hills



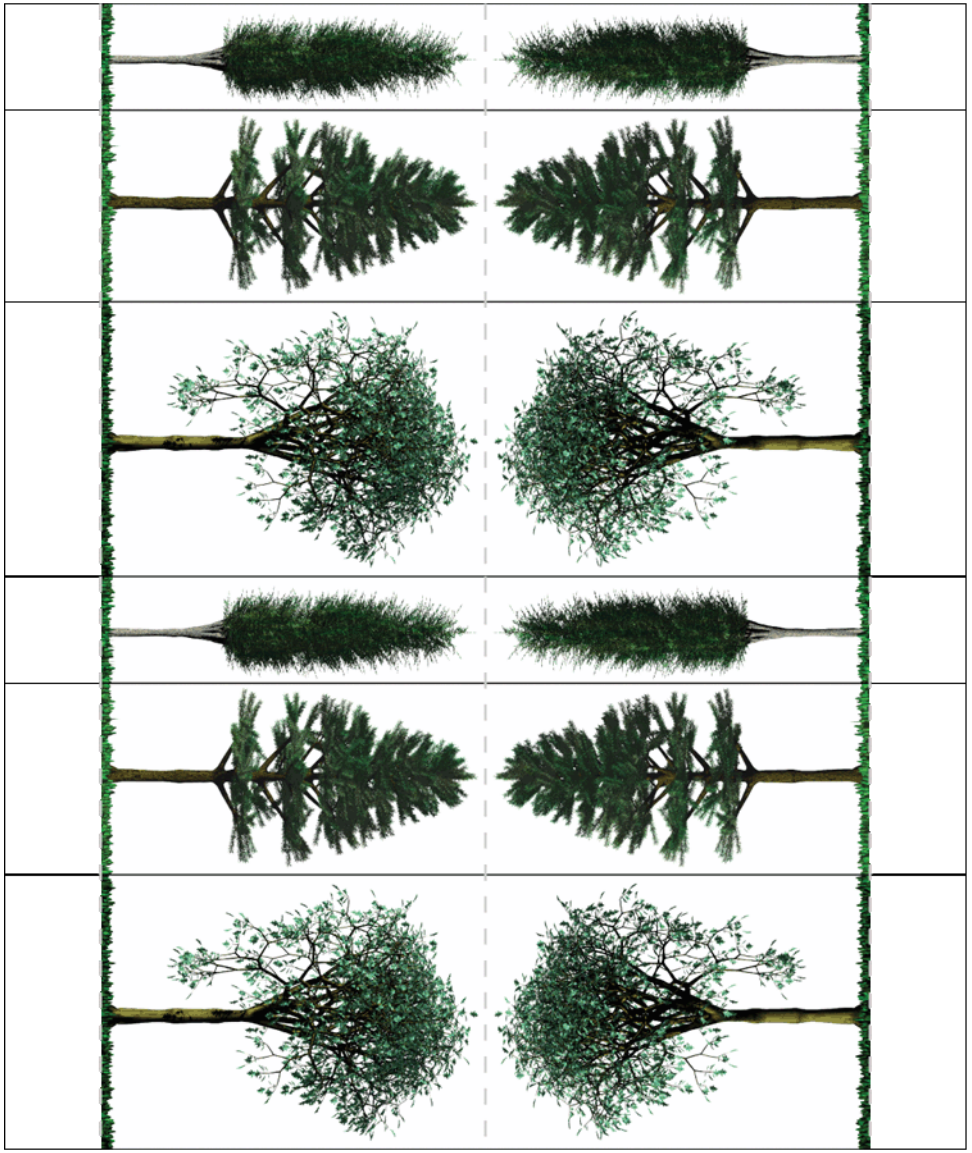
Geomorph connectors for inch high hills

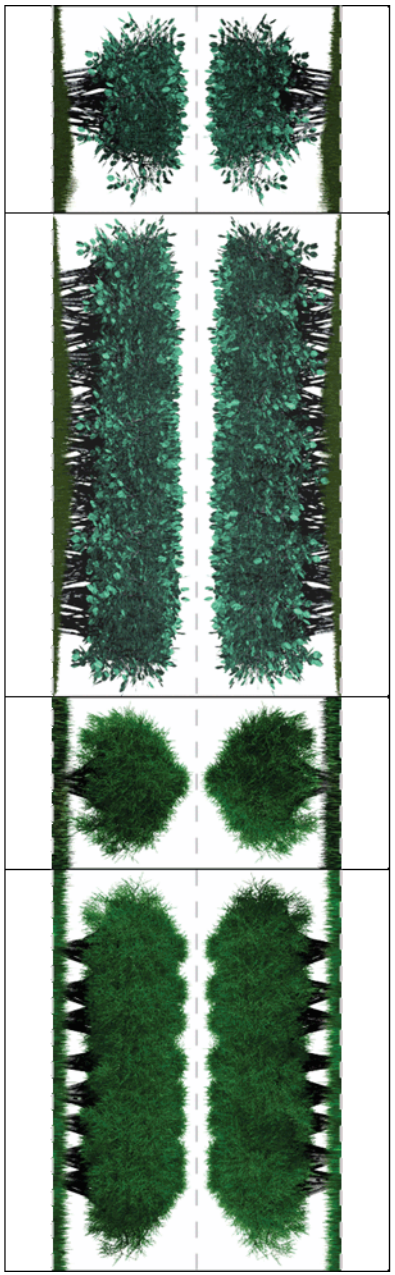
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

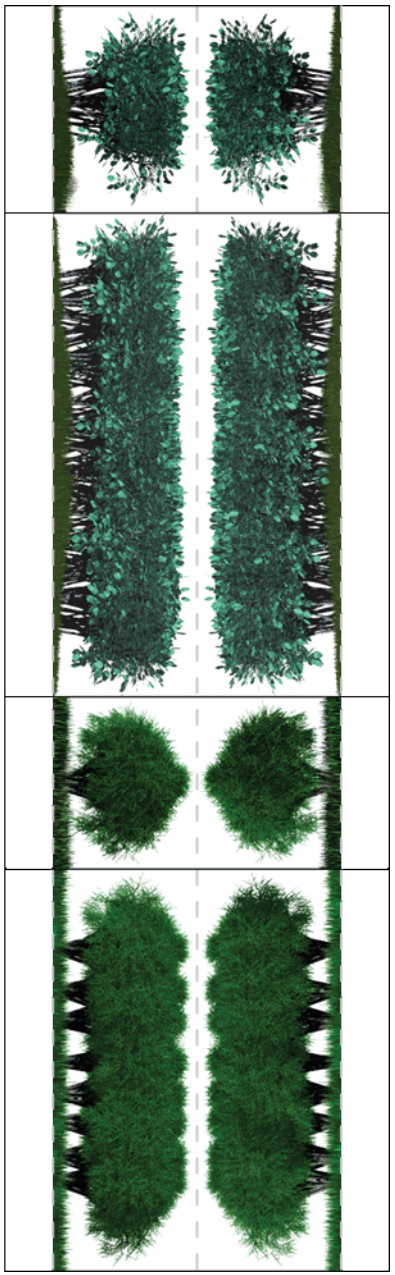


Geomorph connectors for half inch high hills

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

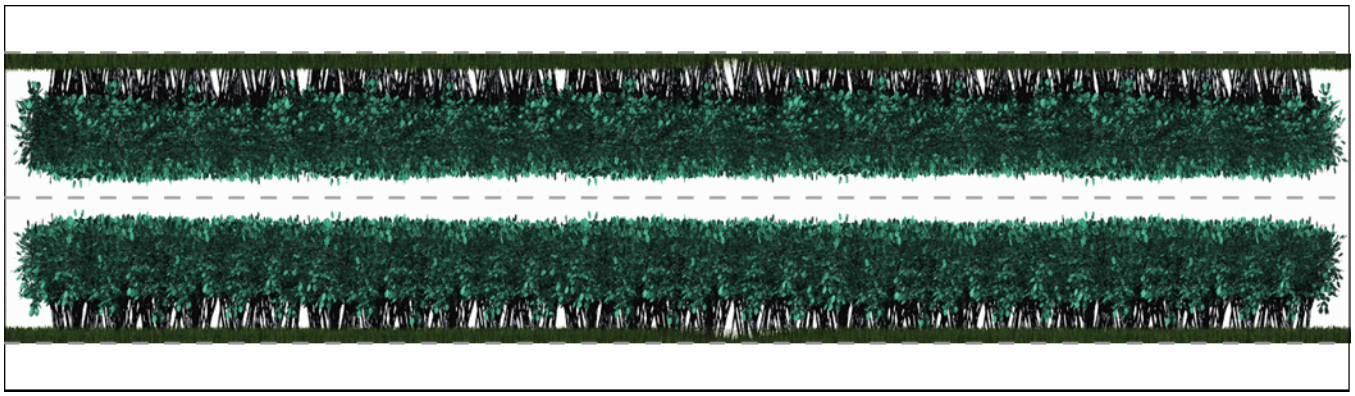


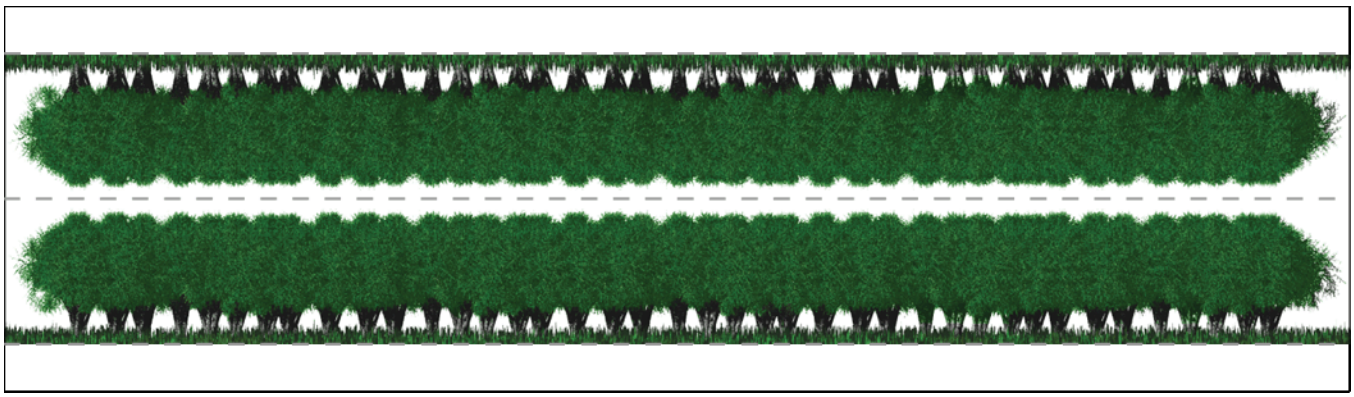


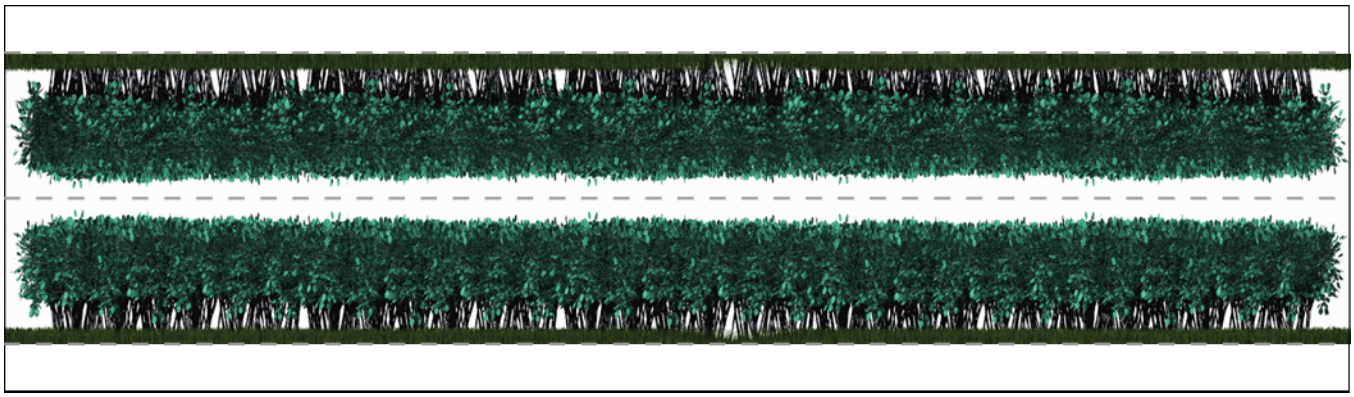


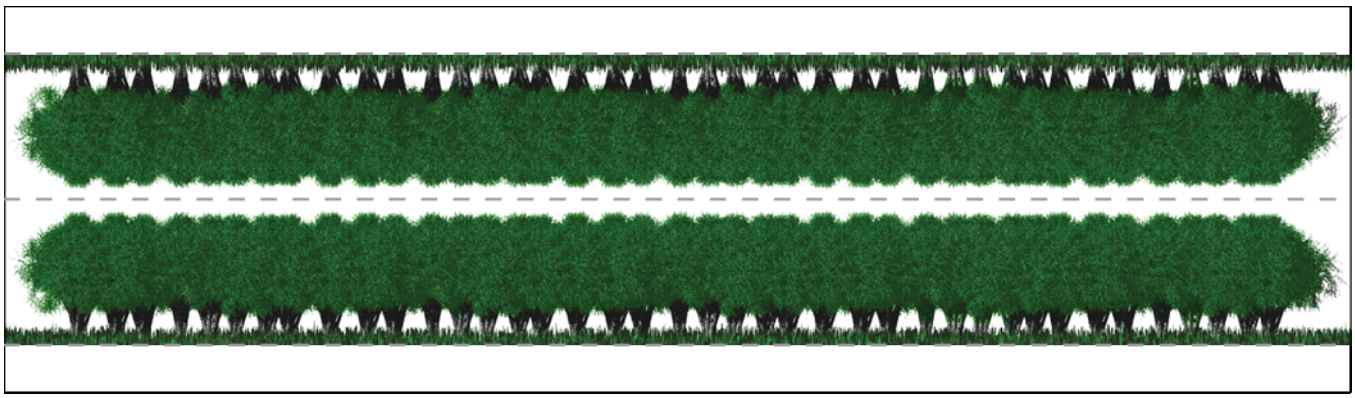
Assorted foliage

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com





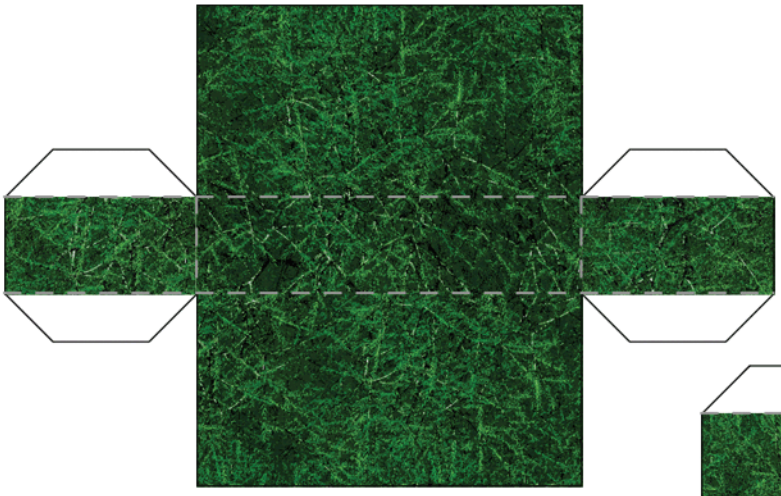


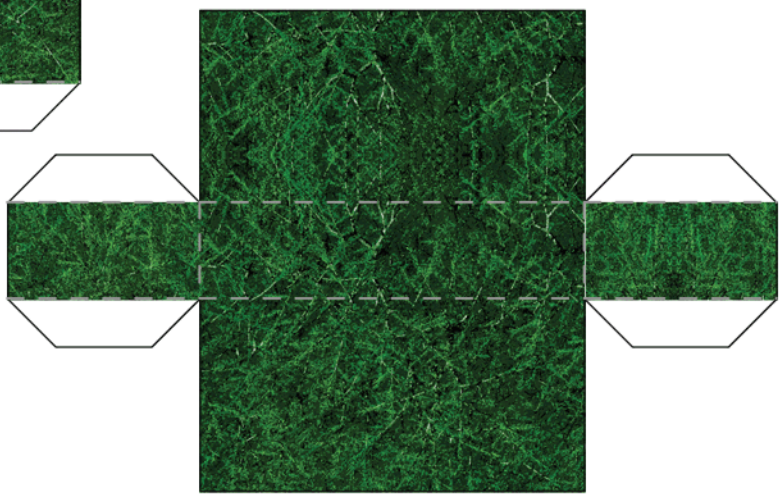


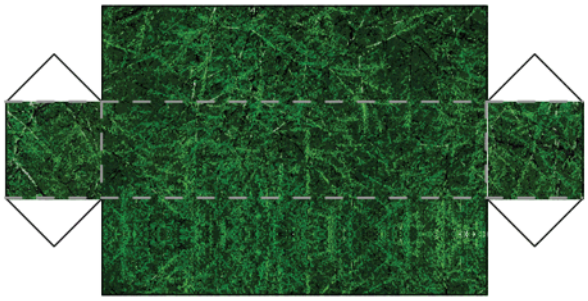
Paper Playground

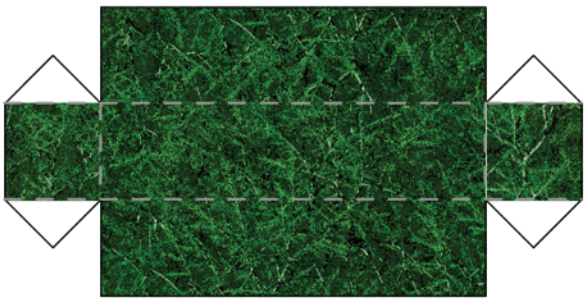
Shrub rows

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

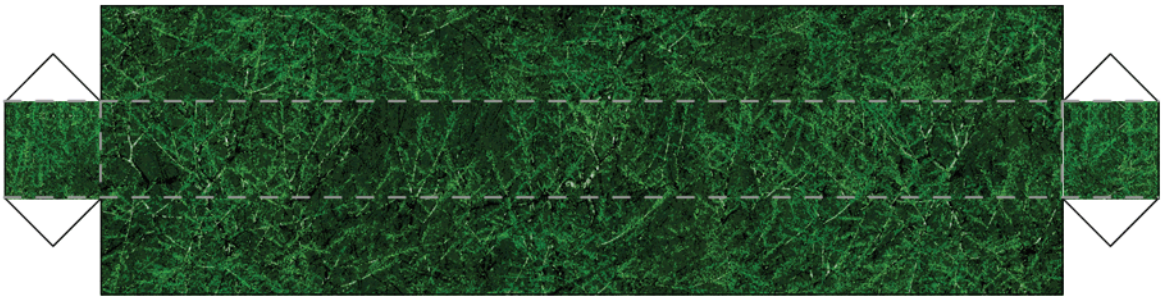


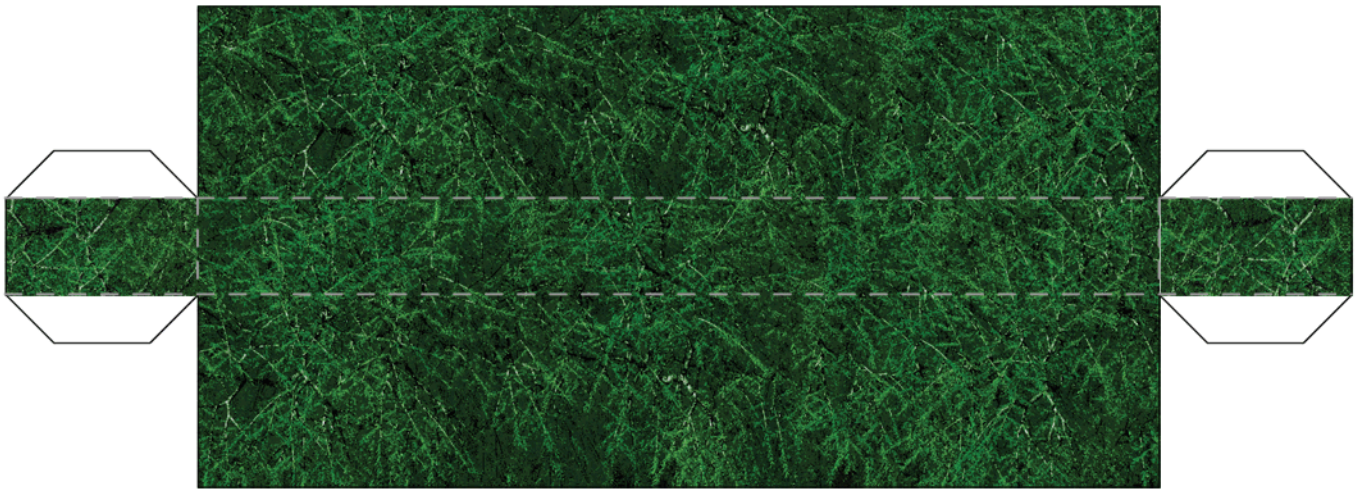




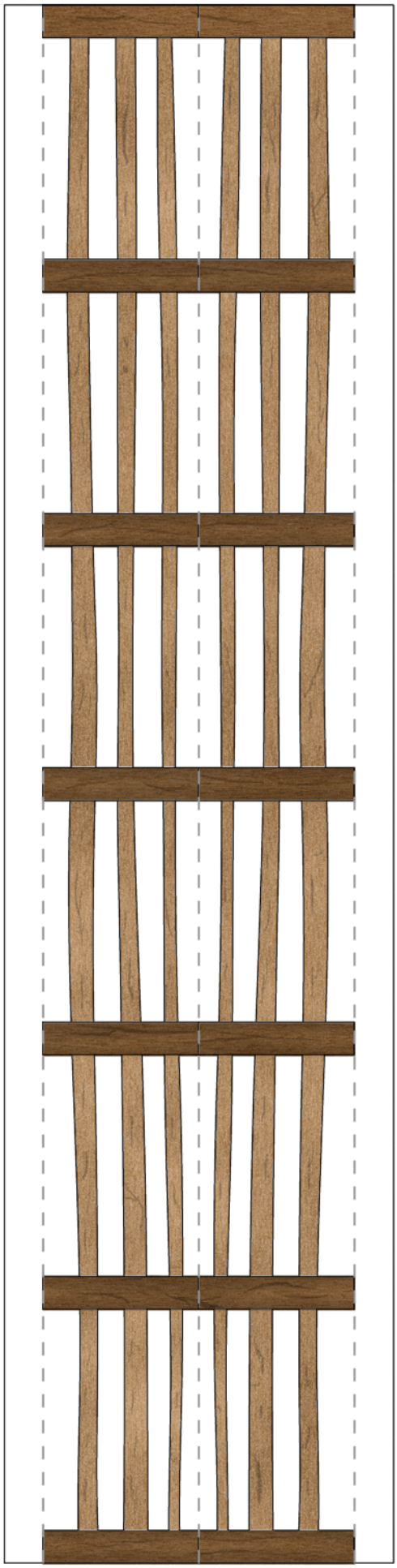


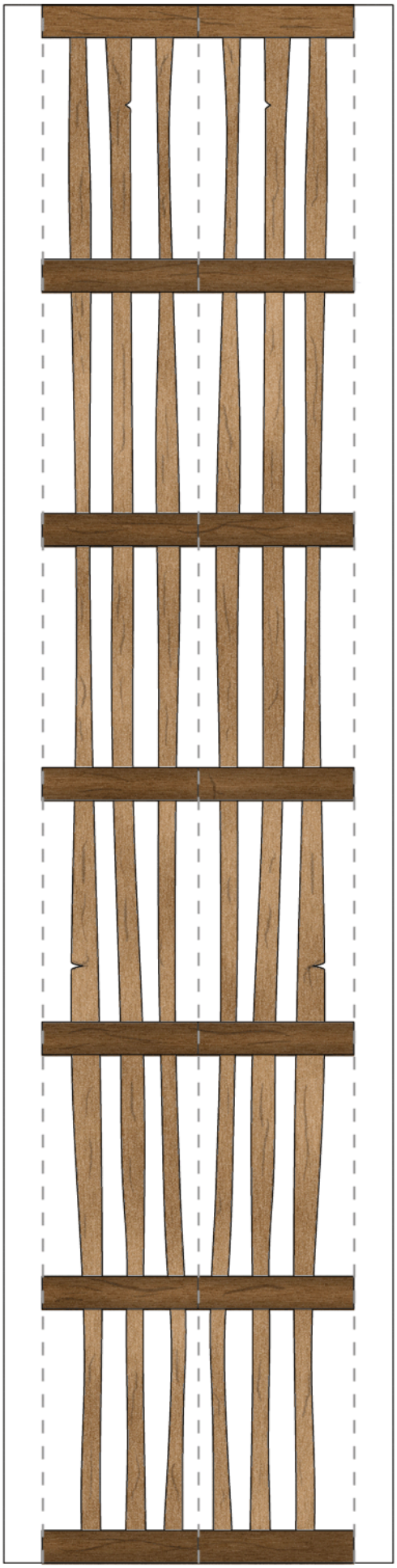
Thick hedges

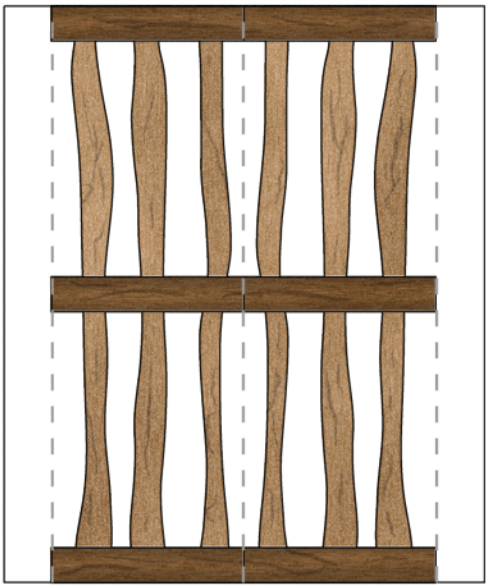




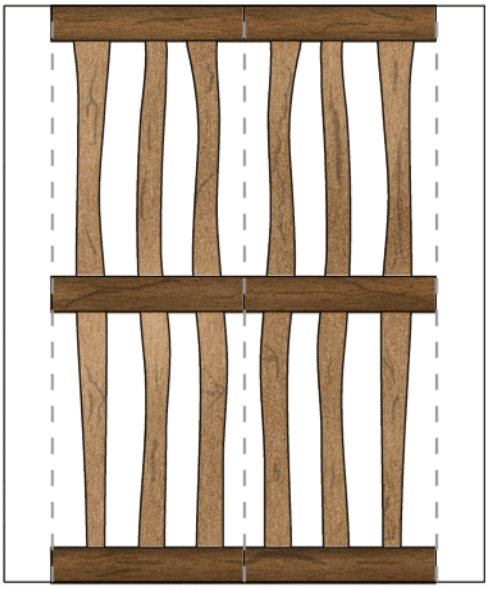
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



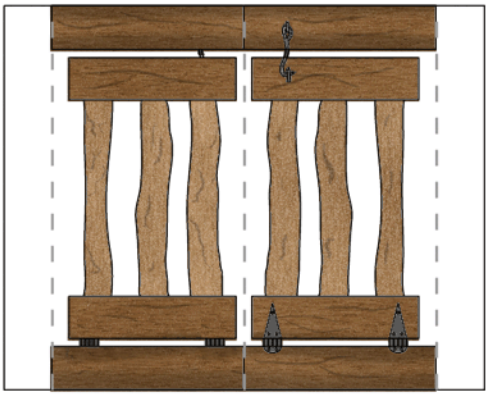




Paper Playground



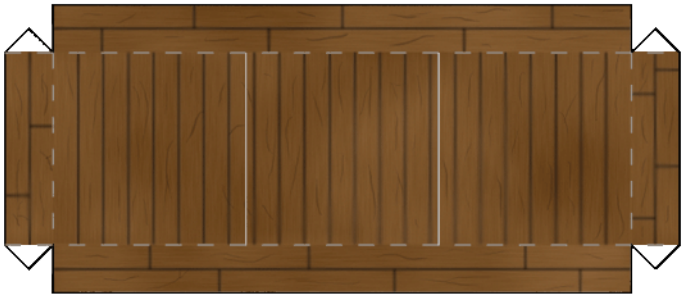
Fences

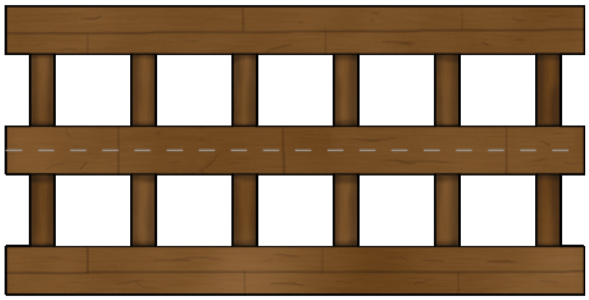


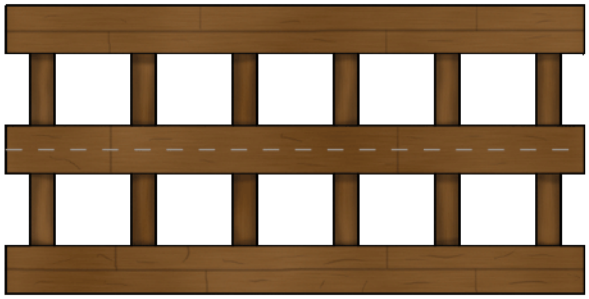
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

Stone walls

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

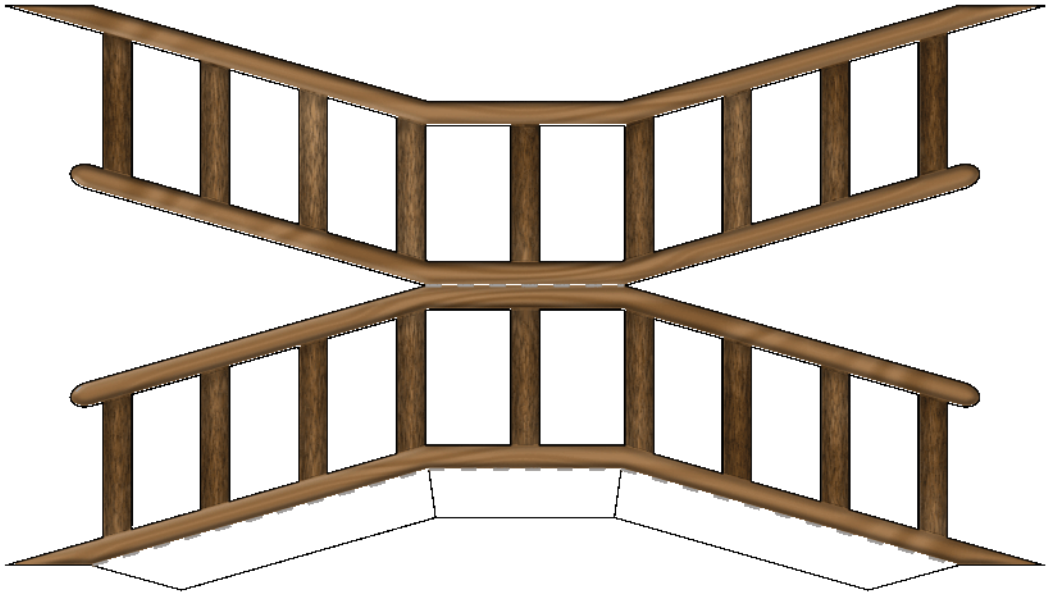


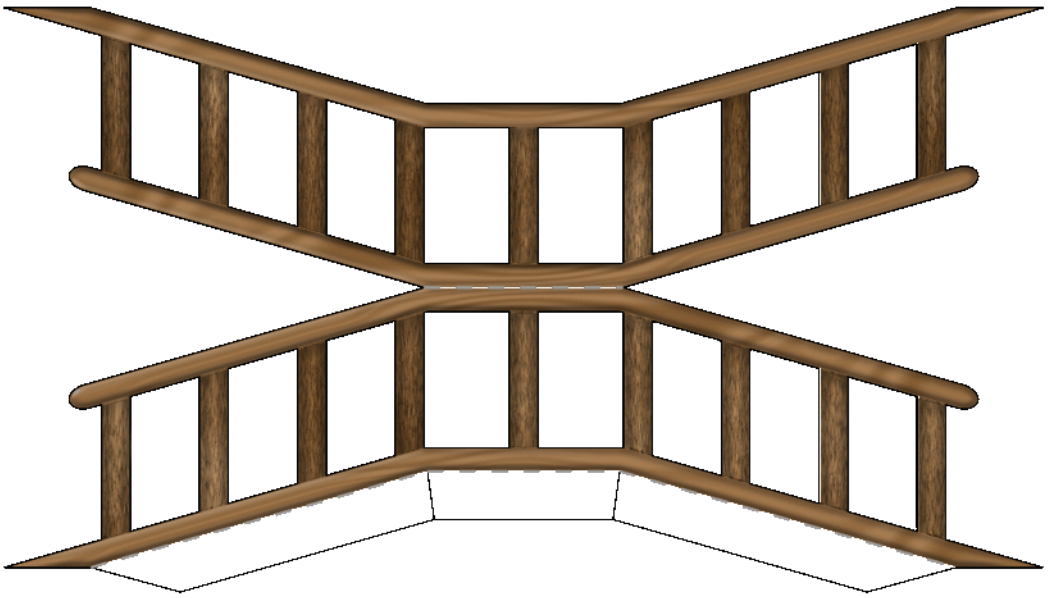




Small wooden bridge

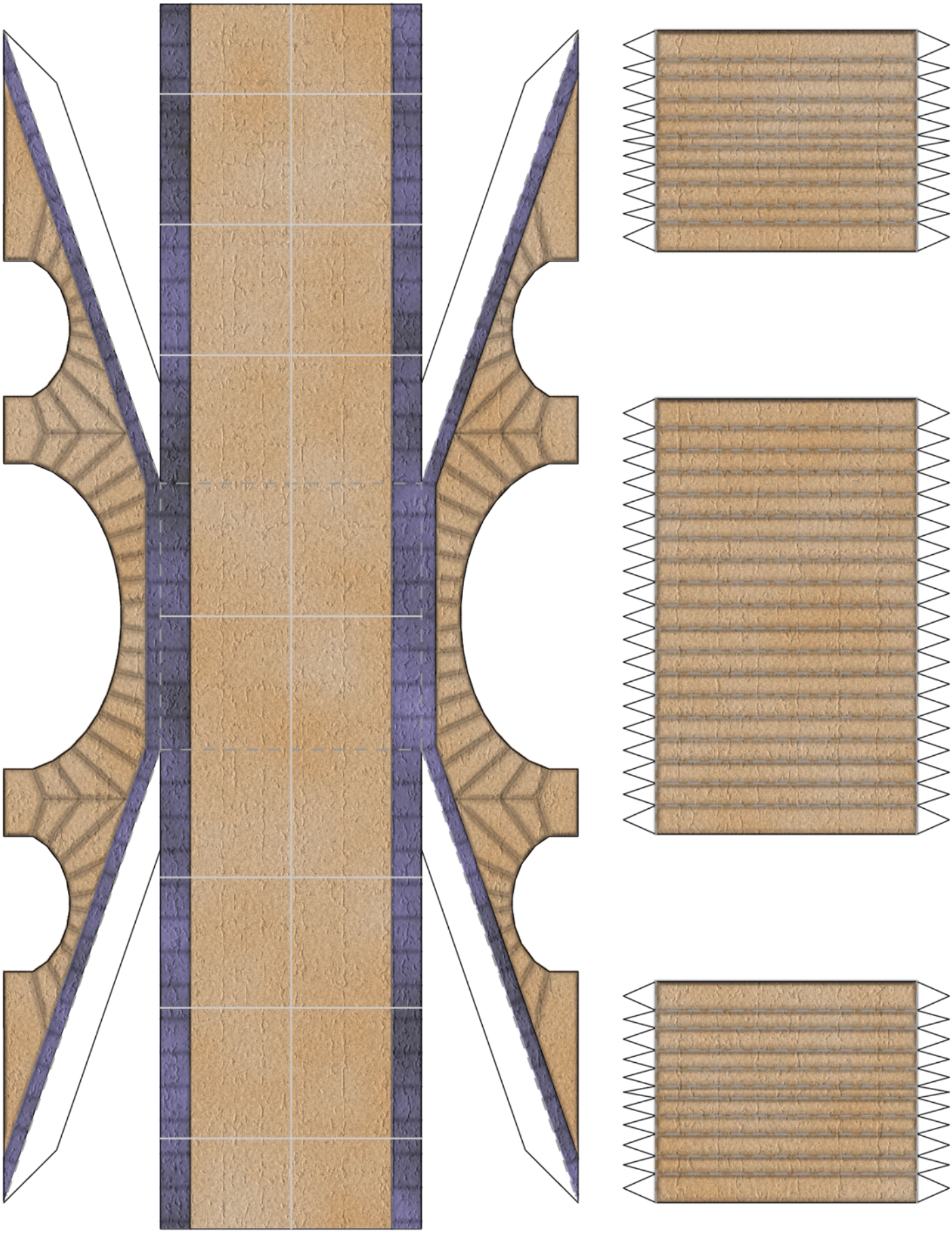
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com





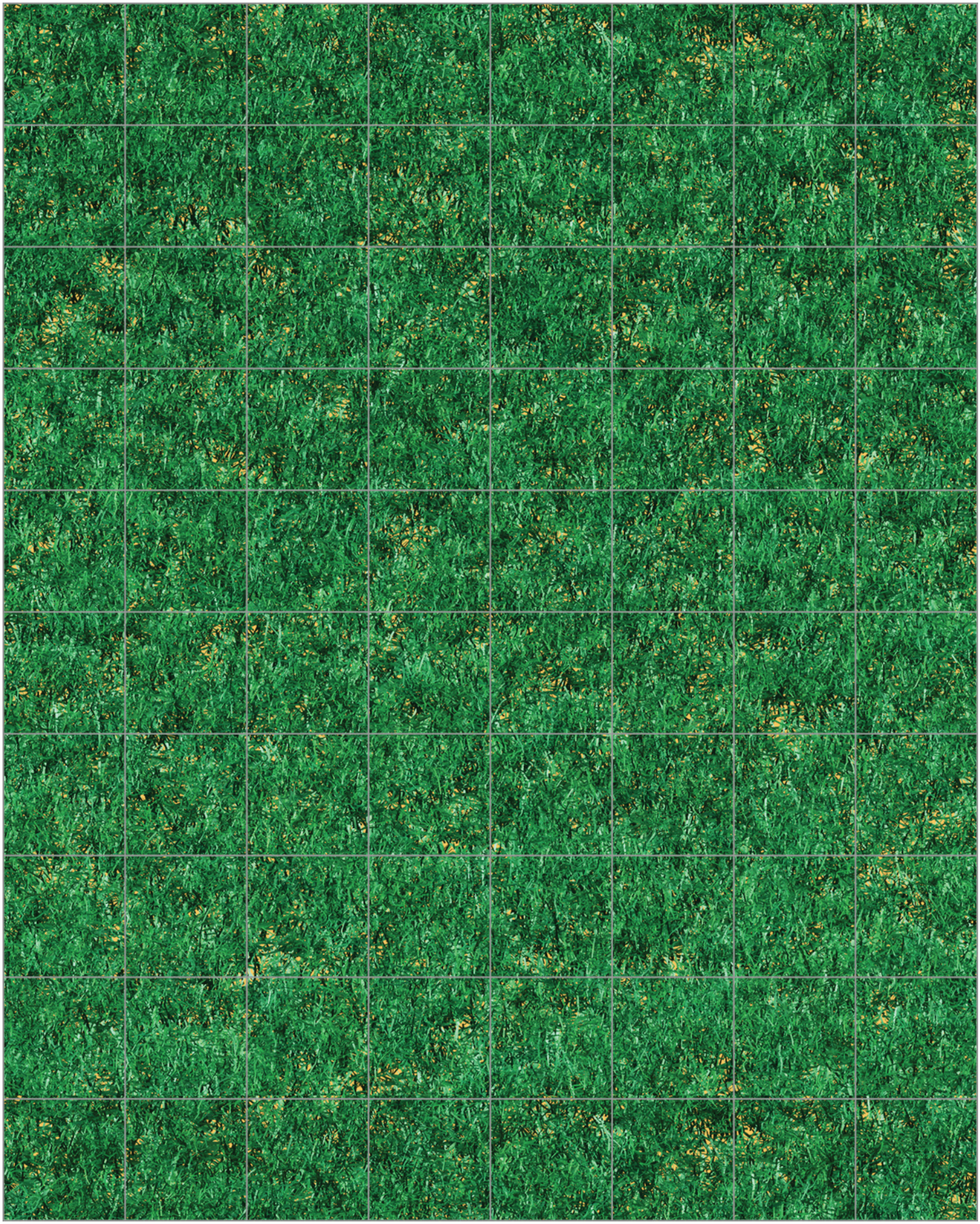
Medium wooden bridge

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



Large stone bridge

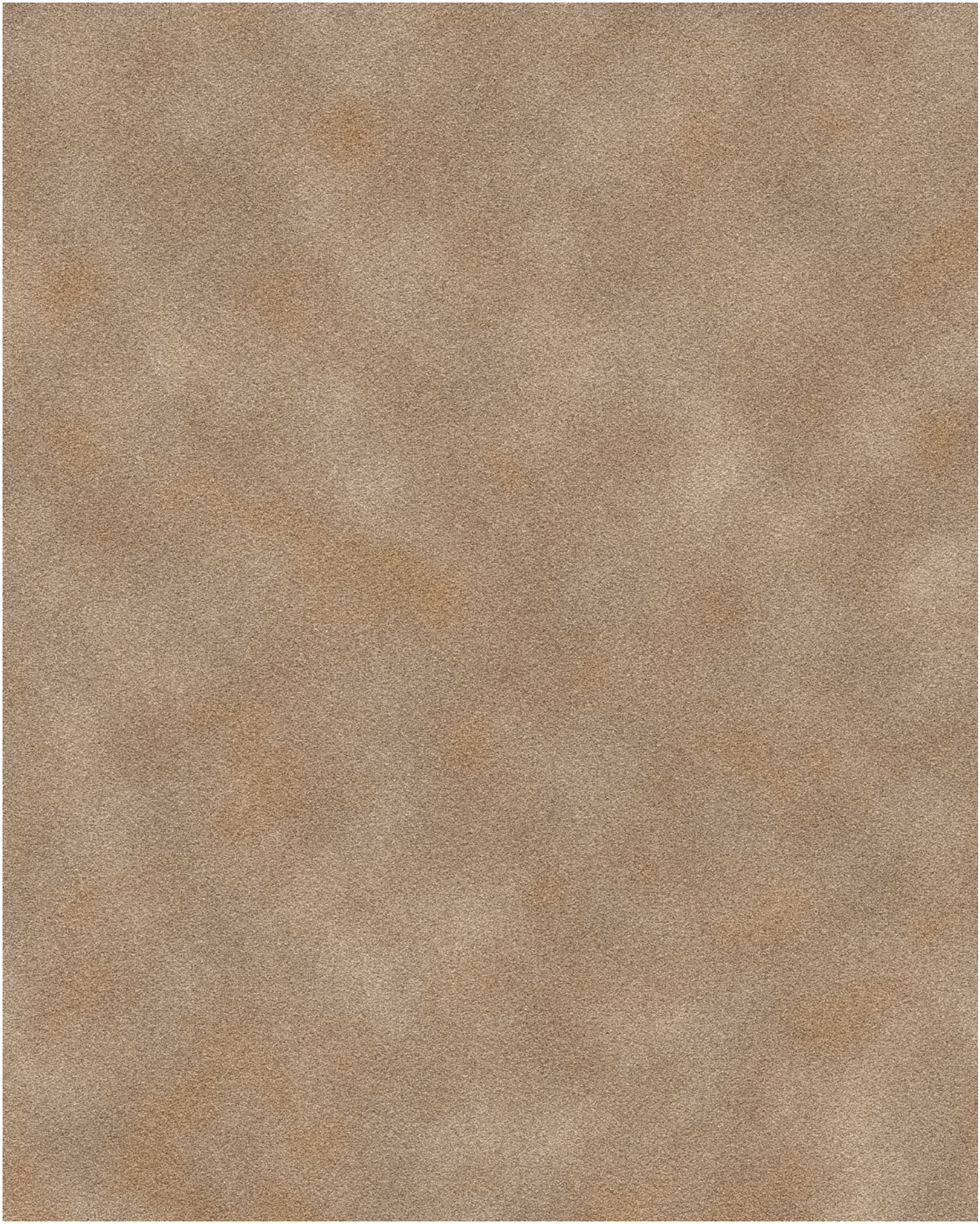
Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



Paper Playground

Grassy texture with 1 inch grid

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

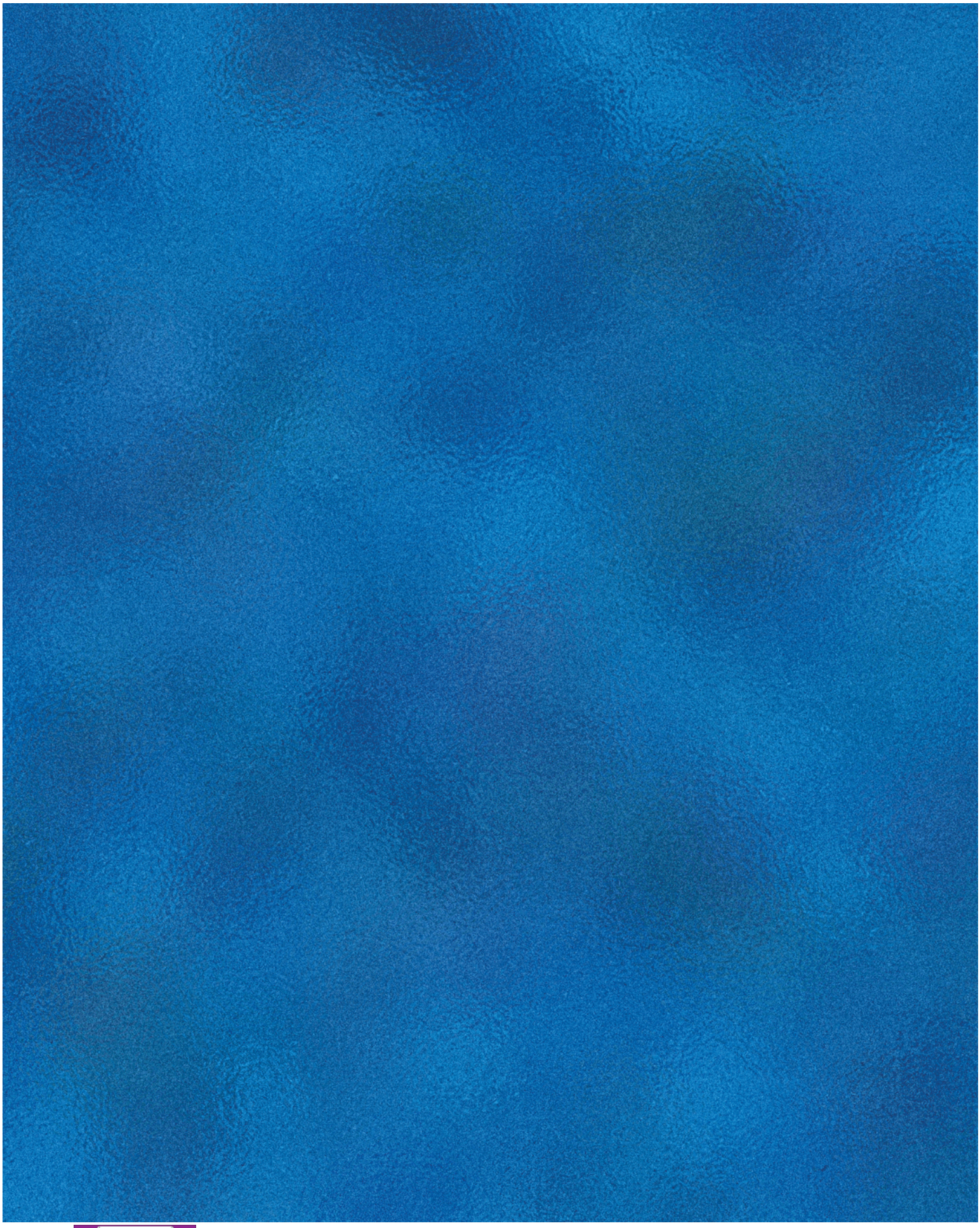


Sand texture

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com

Dirt texture

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com



Water texture

Terrain Pak 1 - The Fields of War. Artwork ©2003 Penguin Labs LLC www.penguinlabs.com