Suburban Assets Pack - Unreal Documentation

By Nosense Studio

Introduction

This pack is designed around a **512 cm grid** to ensure seamless modular construction. It includes modular meshes, props, vegetation, and custom shaders for easy color/material variations.

Building Workflow

Grid Sizing

The modular assets are designed to snap directly to Unreal's grid system:

- Check Use Power Of Two Snap Size in your grid snapping settings
- Use a grid size of 512 units (or subdivisions like 64, 128, 256) for precise placement.
- 1. Open Increment Snapping
- 2. Set the **Move** value to the same power-of-two

This ensures modular walls, floors, and roofs align seamlessly without gaps or overlaps.

Rotation

When placing modular pieces, make sure their **rotation values are aligned to the grid** (multiples of 90°).

- Use Rotation Snapping set to 90°.
- Keep walls, floors, roofs, and props rotated in 90° increments to avoid gaps or misalignment.

This ensures all modular meshes connect seamlessly without floating edges or overlaps.

Materials & Shaders

Most shaders are based on an **ORM texture workflow** (*Occlusion, Roughness, Metallic packed into a single texture*), which improves performance and saves texture memory.

HSL Shader

The **Mailbox** uses a custom shader that allows you to change its color.

To create variations, duplicate the existing material and adjust the shader parameters.

- You can modify:
 - Hue
 - Saturation
 - Brightness
 - Contrast

Alpha Mask

Some wall materials (such as plaster, plaster baseboard, plaster baseboard crown, paint, paint baseboard,) use an Alpha Mask Shader.

- This shader lets you **recolor the surface** without editing the texture.
- You can adjust:
 - Color
 - Color Intensity
 - Saturation
 - Brightness

This allows you to quickly create material variations while keeping texture usage optimized.

World Aligned Material (Triplanar)

A set of tiling materials with Triplanar Mapping is included in the pack.

- These materials automatically project textures based on the object's world position, ensuring seamless continuity across modular meshes.
- Use them when building houses with pieces such as wall_05x1 (or other smaller modular piece) to avoid visible seams or UV stretching.
- You can find these materials in the Materials/WorldAlign folder.

Folder Structure

The pack is organized to make navigation and asset usage as simple as possible. Below is an overview of the main folders:

★ Each category is separated to help you quickly find modular pieces, props, vegetation, and materials.

Support & Updates

Support

If you encounter any issues or have questions about using the Suburban House Modular Pack, **Nosense Studio** is here to help.

Email: contact@nosense.studio

Updates

This pack is currently in **Early Access**, and more content will be added over time.

- Planned Additions:
 - Additional modular pieces for more house variation
 - New props for interiors and exteriors
 - Extra materials and shader variations
- **Free Updates:** All bug fixes, content additions, shader improvements, and compatibility updates are provided at no additional cost.
- Changelog: Each update includes a detailed changelog.

★ Tip: Always back up your project before updating the pack to avoid overwriting any custom changes.