CLO 3D vs Real-life Sample Comparison Guide

Check List

Avatar

- ✓ Is the same avatar used in both 3D and real-life?

Garment

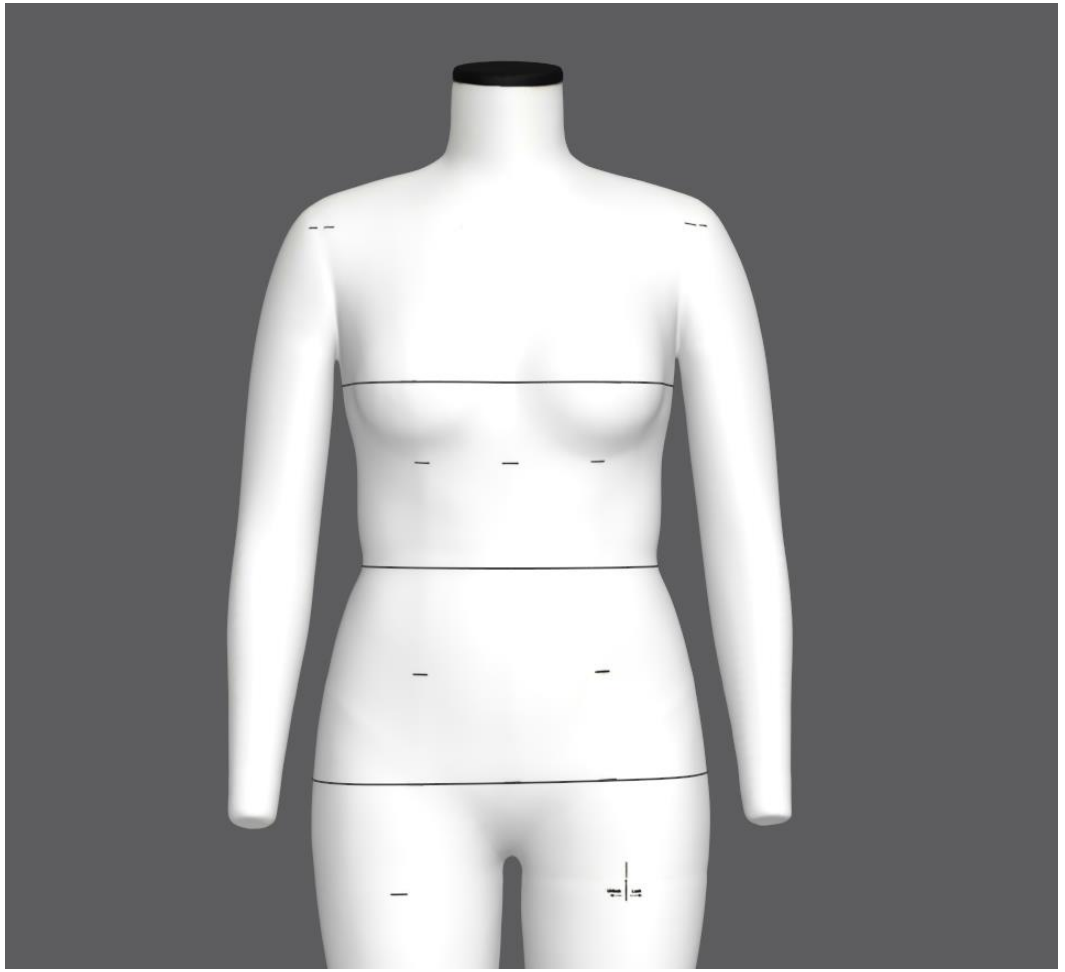
- ✓ Are the same patterns used for both 3D and real-life samples?
- ✓ Are the garments draped on the same spot of the avatars?
- ✓ Have you increased garment quality using the Hi-Res Garment tool?
- ✓ Is the same fabric used for both 3D and real-life samples?
- ✓ Has any technique that may influence the garment's silhouette used when creating the real-life sample? If so, have they replicated in 3D?

Avatar

✓ **Confirm the size of the 3D avatar and the real-life dress form.**

Compare the chest, waist, and hip circumferences of the real-life dress form and the 3D avatar.

Use the Measure tools from the 3D toolbar.



✓ **When there is a significant difference between the length of the real-life and the 3D sample, please confirm the use of the same patterns for both samples.**

Please confirm the same patterns are used for real-life and 3D samples when there is a significant difference in length or silhouette.
Seldom, 3D samples are created with patterns different from their real-life samples.

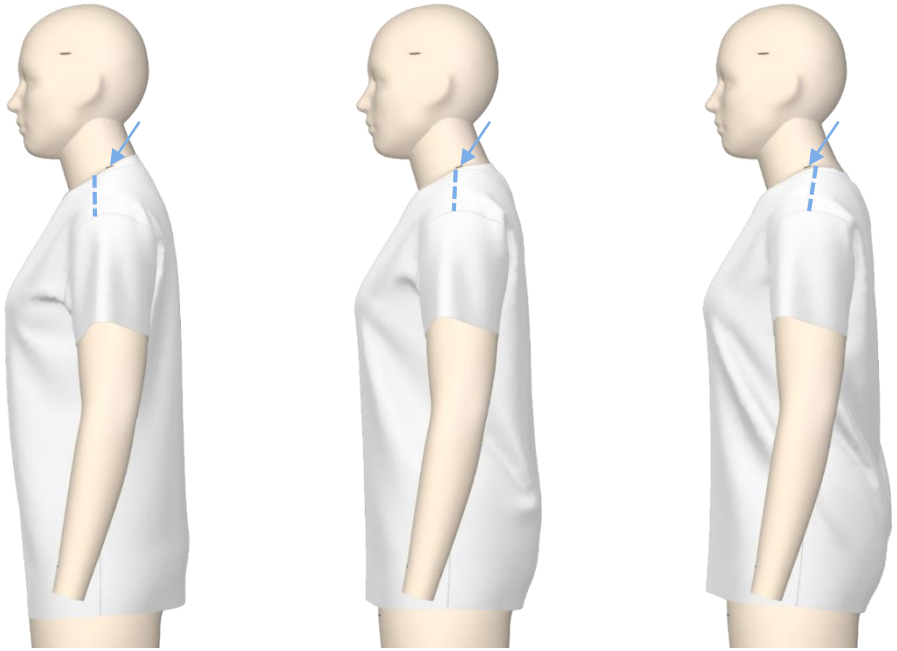
In real-life, samples may shrink or stretch during the manufacturing process, varied by sample makers.
To confirm the accuracy of the sample, compare the 2D pattern and real-life sample specifications after measuring the sample on the ground.

Garment

✓ **Confirm the drape of the samples in 3D and real-life.**

As in real-life, the drape of 3D garments changes by how they are draped on avatars.

Please drape 3D garments in the same way they are draped in real-life.



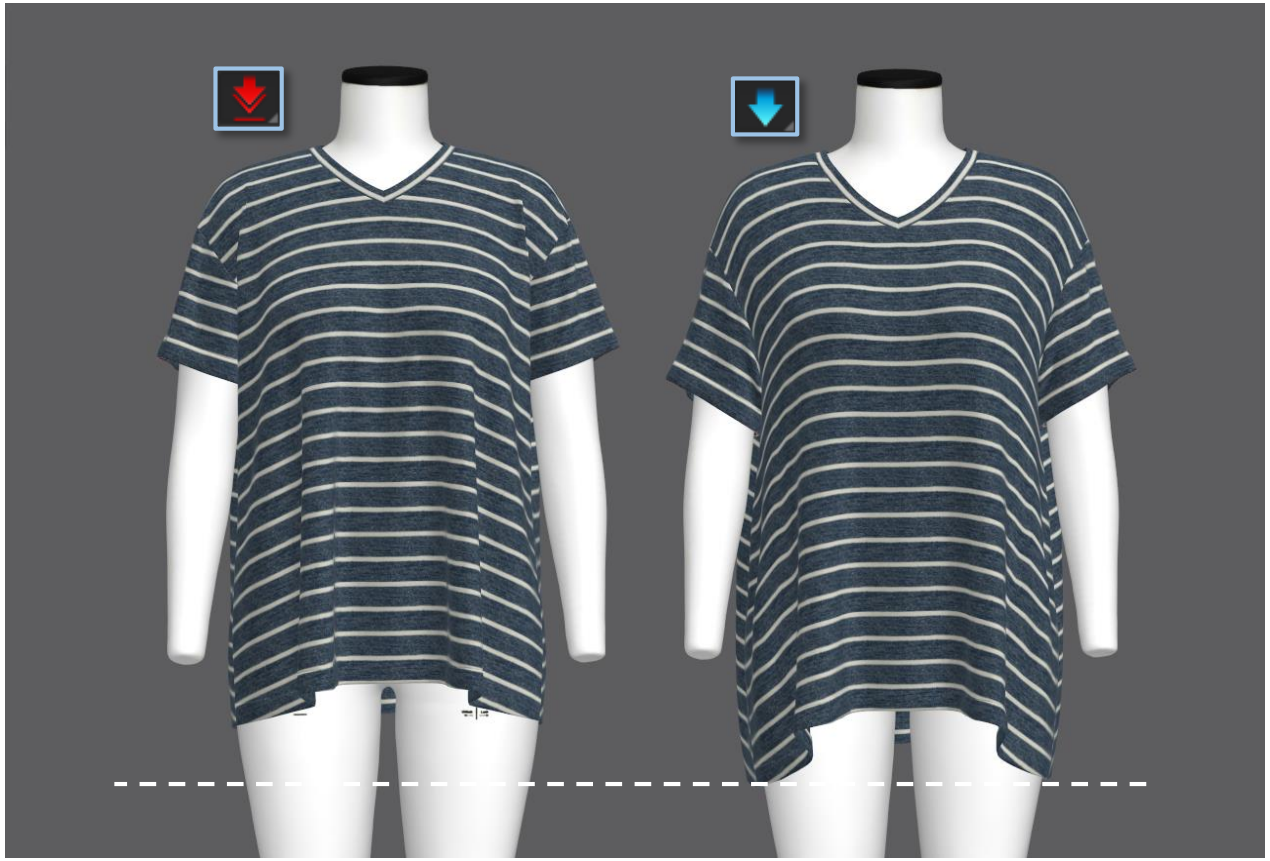
Changes in Silhouette by Shoulder Seam Location

For tight garments, especially, the length difference is exaggerated when they are pulled downwards.

Garment

✓ **Use the Hi-Res Garment tool to increase garment quality before comparing.** 

Use the Non-linear Simulation to accurately emulate the fabric's physical properties.
The 3D garment length may vary by each Simulation option.



✓ **Confirm the same fabric's use for both 3D and real-life samples.**

For accurate comparison, the real-life sample's fabric must be used in the 3D sample.

Q: When two fabrics have different weight, but the same fabric composition, can I change the weight value and use it in CLO?

A: No. Even if two fabrics have the same fabric composition, their fabric properties must be measured individually when their weights are different.
Fabrics' densities and structures vary by fabric weight, and they influence both Bending and Stretch values.

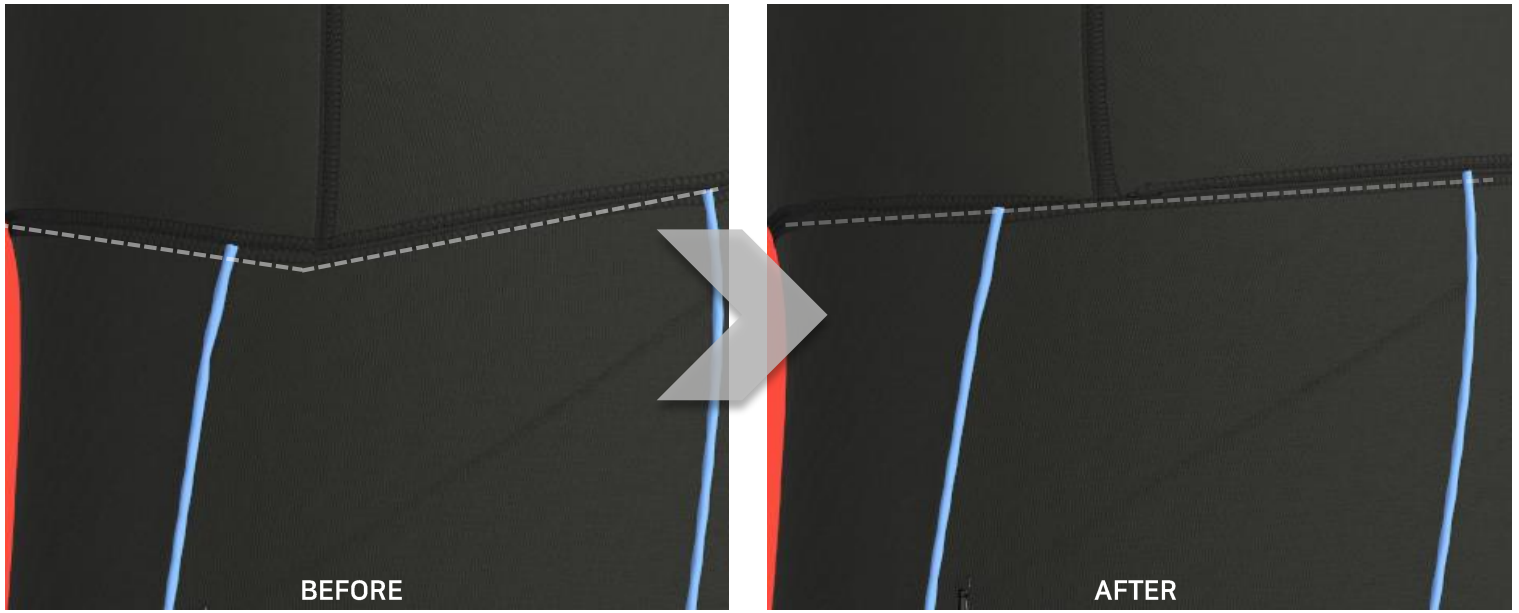
Garment

✓ Check if any sewing method or finishing may influence garment length.
Then, confirm whether they are replicated in CLO.

Mobilon tapes, facing, and steam may change garment length or silhouette.
Check if the real-life samples are created with the above techniques, and apply them in CLO for more accurate comparison.

(e.g.)

For the real-life sample, Mobilon tapes are used in the waist band.



To replicate the same effect in 3D, apply **Elastic Ratio 100%, Elastic Strength 5** where Mobilon tapes are used.

Compare a 3D sample with a real-life sample image.

✓ **When comparing a 3D sample with a pictured sample, please align the 3D window's field of view with the sample image.**

For the same garment, its silhouette or length can be seen different by its field of view.
Adjust CLO's field of view as the same as the sample image's.

How to change the field of view in CLO

1. Right click on the 3D window.
2. Select Camera Properties>>Default Camera
3. Adjust the Filed of View option in the Property Editor

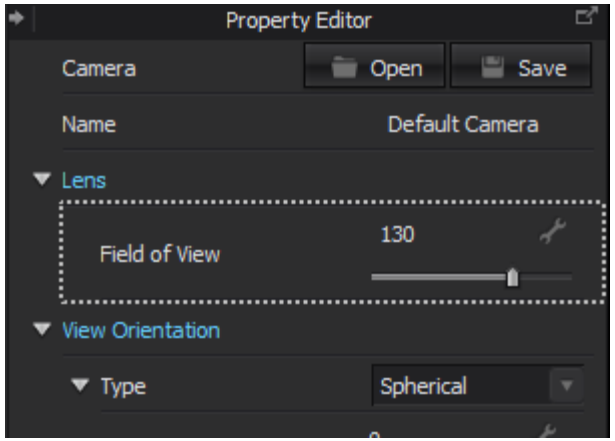


Image Distortion by Field of View

Field of View 10 30 50 70 90 110 140

Thank you.