



# Technical Specifications V1.17

Last Updated: July 25th, 2022

-----

## [Technical Specifications](#)

### [Browser & Hardware Requirements](#)

[Browser](#)

[Mobile](#)

[Hardware](#)

[DAM+](#)

[3D](#)

[2D](#)

[Colors](#)

[Materials](#)

[Prints & Graphics](#)

[Download](#)

[Product](#)

[Design](#)

[Rendering](#)

[Collaborate](#)

[Users](#)

[Plugins](#)

## Browser & Hardware Requirements

Browser versions tested and supported

Browser	Version
Chrome	99, 98, 97, older

Firefox	98, 97, 96, older
Safari	15, 14
Edge	99, 98, 97, older

## Mobile smartphones

OS	Browser Versions
Android versions 12,11, 10, 9, 8, 7	Chrome 96, Firefox 96, Native browser
	It is recommended the smartphone to have at least 4GB of RAM
iOS versions 13, 12, 11, 8, XR, XS	Chrome recent versions, Safari 15, 14
Mobile devices are able to open and use functionality of the public / shared viewers of the Product, shared Product grid and shared Spaces.	

## Mobile tablets

OS	Browser Versions
Android versions 12,11, 10, 9, 8, 7	Chrome 96, Firefox 96, Native browser
iOS versions 13, 12, 11, 8, XR, XS	Chrome recent versions, Safari 15, 14
In general the full functionality should be available.	

## Hardware minimum requirements

Processor	Intel i3 6300
RAM	8 GB
Storage	As required by the OS, data is in the Orchids cloud platform
OS	Windows &+, Mac OS
Graphics Card	Intel HD Graphics 530 integrated GPU

## DAM+

### 3D

Supported File Types	. *.fbx v6200+ (with applied zlib compression also), *.glb v2.0, *.gltf v2.0 binary, *.vrml
----------------------	---

Authoring tools tested / fully supported	Clo, VStitcher, Optitex, Accumark, Romans CAD, Modo, Blender, Rhino, Maya, Cinema 4D, Modaris
Maximum File Sizes	Upload file size limit is 200MB.
2D Texture specs	File Types:png, jpg, jpeg, bmp, tif, tiff, hdr, webp, psd Max File Size: 55MB
Optimization / Processing	Models are optimized via the server by applying Draco compression, version 1.5 is supported Textures are optimized via the server as files with resolutions 4k and 8k are resized to 2k or smaller and equal to a power of two.

## 2D

### Colors

Metadata	Title	Required
	Name	Yes
	Color Code	No
	Hex	Yes
	Color schema	RGB, Float, HSL, CMYK

#### Supported uploadable file types

File Types	.ase
Notable specs	This is a library of colors file format, supported for import into the color library of Orchids. No more than 50 colors per file!

### Materials

#### Supported uploadable file types

File Types	.u3m PBR materials
Notable specs	Multiple materials in a u3m file supported, zip with multiple u3m files are also supported

### Prints & Graphics

Supported File Types	.png, .jpg, .jpeg, .hdr, .bmp, .tif, .webp, .psd
Maximum File Size	55MB

Notable specs	
---------------	--

## Asset types associated with Products and Spaces

Asset Types	<p><b>General files</b>  Archive files (.ZIP, .RAR, tar, gzip)  Audio formats (MP3, MPEG, WAV, .ogg, .opus)  Image files (.JPEG, .PNG, .GIF, .BMP, .TIFF, .SVG, .BMP, .WEBP)  Text files (.TXT)  Video files (WebM, .MPEG4, .3GPP, .MOV, .AVI, .MPEGPS, .WMV, .FLV, .ogg)</p> <p><b>Design software files</b>  Autodesk AutoCad (.DXF)  Illustrator (.AI)  Photoshop (.PSD)  Portable Document Format (.PDF)  PostScript (.EPS, .PS)  Scalable Vector Graphics (.SVG)  Tagged Image File Format (.TIFF)  TrueType (.TTF)</p> <p><b>3D software project files</b>  Clo3d/ Marvelous Designer (.ZPRJ)  VStitcher (.BW)  Optitex (.PDS)  Maya Binary (.MB, .MA)  Modo scene files (.LXO)  3DS Max (.MAX)  Blender (.BLEND)  Rhino (.3DM)  Cinema 4D (.C4D)  Lectra (.MDL)</p> <p><b>3D model files</b>  Geometry files: (.OBJ/.MTL, .FBX, .GLTF, .GLB)  3D material files  Material files (.U3M, .U3MA, .XTEX)</p> <p><b>Office files</b>  Excel (.XLS, .XLSX)  PowerPoint (.PPT, .PPTX)  Word (.DOC, .DOCX)  XML Paper Specification (.XPS)  SharePoint (.TGA)  Apple (.KEY, .NUMBERS)</p>
Maximum File Size	100MB

## Download

### Models

Formats	*.glb v2.0, *.gltf v2.0 binary, *.obj + *.mtl	
---------	---	--

## Models of color and / or material variants with applied Prints & Graphics

Formats	glTF v2.0 binary (*.glb) with applied Draco compression	
---------	---	--

## Snapshots

images	*.png	Up to 2K resolution
--------	-------	---------------------

## Rendering

### Browser (real time)

Rendering Engine	WebGL version 2.0 (with fallback to 1.0 for devices that don't support 2.0)	Threejs library based on version 111 with many custom additions
------------------	---	---

## Collaborate

### Comments

Locations	Product, Spaces
Max Characters	No Limitation
Max comments in thread	No Limitation
@ mentioning with notification in the Platform and via email	Supported

## Users

### User Roles

Metadata	Title
member	Member account
member with Pro	Member with Pro account
Product admin	Product Line Admin
Pro product admin	Product Line Admin with Pro account
Org admin	Organization Admin
Pro org admin	Organization Admin with Pro

Organization Admin, Product Line Admin, and Member - each role can be "promoted" to Pro. "Pro" users get added permissions / capabilities throughout the platform: Setup, Design and Commenting. The Library will also only be accessible to those with Pro status.

## Plugins

Embodee Orchids Plugin for Browzwear VStitcher plugin capabilities

- Exports model with optimized settings for use in Orchids in \*.fbx format
- Includes avatar option, so the user can opt in for including the avatar in the exported model
- Generates model metadata, utilized in Orchids to create better structure of components, matching the pattern structure in VStitcher