BIM & CAD DETAIL LIBRARY

Twenty objects, *ready to specify.*

17 architectural mesh patterns and 3 framing accessories (catalogue numbers 01-20), each delivered as an IFC4 BIM object, an AutoCAD DXF detail sheet and a PDF detail sheet. Mesh patterns also include seamless render textures at true scale. Values match the MAISHI 2026 data sheets, catalogue and website.

NO.	ITEM	CAD DETAIL (DXF + PDF)	BIM OBJECT (IFC4)	TEXTURES	OPEN AREA	THICKNESS	WEIGHT (SS)
01	ASPECT 65	MS-AM-01 MAISHI_01_ASPECT-65_Detail	MAISHI_01_ASPECT-65.ifc	diffuse / opacity / bump	65%	5/16" (8.0 mm)	2.05 lb/sq ft (10.0 kg/m²)
02	ASPECT 66	MS-AM-02 MAISHI_02_ASPECT-66_Detail	MAISHI_02_ASPECT-66.ifc	diffuse / opacity / bump	66.5%	21/64" (8.23 mm)	2.01 lb/sq ft (9.8 kg/m²)
03	ASPECT 74	MS-AM-03 MAISHI_03_ASPECT-74_Detail	MAISHI_03_ASPECT-74.ifc	diffuse / opacity / bump	74.8%	11/32" (8.59 mm)	1.54 lb/sq ft (7.5 kg/m²)
04	ASPECT 64	MS-AM-04 MAISHI_04_ASPECT-64_Detail	MAISHI_04_ASPECT-64.ifc	diffuse / opacity / bump	64.5%	13/32" (10.21 mm)	2.58 lb/sq ft (12.6 kg/m²)
05	ASPECT REST 64	MS-AM-05 MAISHI_05_ASPECT-REST-64_Detail	MAISHI_05_ASPECT-REST-64.ifc	diffuse / opacity / bump	64%	15/64" (6.0 mm)	1.33 lb/sq ft (6.5 kg/m²)
06	ASPECT 47	MS-AM-06 MAISHI_06_ASPECT-47_Detail	MAISHI_06_ASPECT-47.ifc	diffuse / opacity / bump	47.2%	9/64" (3.63 mm)	1.47 lb/sq ft (7.2 kg/m²)
07	ASPECT 53	MS-AM-07 MAISHI_07_ASPECT-53_Detail	MAISHI_07_ASPECT-53.ifc	diffuse / opacity / bump	53.9%	3/32" (2.49 mm)	0.88 lb/sq ft (4.3 kg/m²)
08	ASPECT 41	MS-AM-08 MAISHI_08_ASPECT-41_Detail	MAISHI_08_ASPECT-41.ifc	diffuse / opacity / bump	41.1%	9/64" (3.56 mm)	1.72 lb/sq ft (8.4 kg/m²)
09	AXIS 63	MS-AM-09 MAISHI_09_AXIS-63_Detail	MAISHI_09_AXIS-63.ifc	diffuse / opacity / bump	63.5%	5/32" (4.06 mm)	1.11 lb/sq ft (5.4 kg/m²)
10	AXIS 81	MS-AM-10 MAISHI_10_AXIS-81_Detail	MAISHI_10_AXIS-81.ifc	diffuse / opacity / bump	81.7%	25/64" (9.75 mm)	1.27 lb/sq ft (6.2 kg/m²)
11	AXIS TWIN 64	MS-AM-11 MAISHI_11_AXIS-TWIN-64_Detail	MAISHI_11_AXIS-TWIN-64.ifc	diffuse / opacity / bump	64.5%	1/8" (3.2 mm)	0.86 lb/sq ft (4.2 kg/m²)
12	AXIS QUAD 77	MS-AM-12 MAISHI_12_AXIS-QUAD-77_Detail	MAISHI_12_AXIS-QUAD-77.ifc	diffuse / opacity / bump	77.4%	17/64" (6.86 mm)	1.11 lb/sq ft (5.4 kg/m²)
13	AXIS 21	MS-AM-13 MAISHI_13_AXIS-21_Detail	MAISHI_13_AXIS-21.ifc	diffuse / opacity / bump	21.6%	7/64" (2.67 mm)	1.93 lb/sq ft (9.4 kg/m²)
14	AXIS 32	MS-AM-14 MAISHI_14_AXIS-32_Detail	MAISHI_14_AXIS-32.ifc	diffuse / opacity / bump	32%	1/8" (3.18 mm)	1.80 lb/sq ft (8.8 kg/m²)
15	AXIS WELD 84	MS-AM-15 MAISHI_15_AXIS-WELD-84_Detail	MAISHI_15_AXIS-WELD-84.ifc	diffuse / opacity / bump	84.5%	21/64" (8.23 mm)	0.84 lb/sq ft (4.1 kg/m²)
16	ASPECT WELD 65	MS-AM-16 MAISHI_16_ASPECT-WELD-65_Detail	MAISHI_16_ASPECT-WELD-65.ifc	diffuse / opacity / bump	64.9%	5/16" (8.0 mm)	1.84 lb/sq ft (9.0 kg/m²)
17	VERTEX 83	MS-AM-17 MAISHI_17_VERTEX-83_Detail	MAISHI_17_VERTEX-83.ifc	diffuse / opacity / bump	83.2%	On request	0.45 lb/sq ft (2.2 kg/m²)
18	U-EDGING	MS-AM-18 MAISHI_18_U-EDGING_Detail	MAISHI_18_U-EDGING.ifc	-	-	-	-
19	FLAT BAR	MS-AM-19 MAISHI_19_FLAT-BAR_Detail	MAISHI_19_FLAT-BAR.ifc	-	-	-	-
20	ANGLE	MS-AM-20 MAISHI_20_ANGLE_Detail	MAISHI_20_ANGLE.ifc	-	-	-	-
-	TENSION SYSTEM	MS-AM-21 MAISHI_21_TENSION-SYSTEM_Detail	-	-	-	-	-

WHAT IS IN EACH FILE

CAD detail sheets (CAD_DXF, CAD_PDF)

AutoCAD R2018 DXF. Model space holds every detail at true size 1:1 in millimetres (pattern elevation, section A-A, section B-B, framing details); paper space layout "A3 SHEET" places the details in scaled viewports with border, title block, data table and notes. Layers follow AIA CAD layer naming: A-DETL-MESH, A-DETL-PATT (hatch), A-DETL-FRAM, A-DETL-FAST, A-DETL-CNTR, A-ANNO-DIMS, A-ANNO-TEXT, A-ANNO-SYMB, A-ANNO-TTLB, A-ANNO-VPRT. Dimensions show imperial first with millimetres in brackets. The PDF is the same sheet for review and printing (ISO A3 landscape).

BIM objects (BIM_IFC)

IFC4 files. Each pattern file contains an IfcPlateType "MAISHI " carrying all product properties, a typical 48" x 96" (1219 x 2438 mm) panel (lightweight solid with transparency equal to the open area, for building models) and a 300 or 610 mm square pattern sample with true wire geometry (straight-wire approximation) for close-up views and visualisation. Property sets: Pset_ManufacturerTypeInformation, Pset_PlateCommon, MAISHI_ArchitecturalMesh (series, construction, open area, thickness, wire, opening, centers, weight, materials, finishes, fire, data sheet and product URLs) and MAISHI_Panel. Classification: MasterFormat 2020 05 70 00 Decorative Metal. Accessory files contain one IfcMemberType per standard size, each with a 120" (3048 mm) length.

Using the IFC in Revit, ArchiCAD and others

Revit: Insert > Link IFC to coordinate, or File > Open > IFC, then copy the panel into your project or save it as a family; adjust width and height to your opening. ArchiCAD: File > Interoperability > Merge (IFC). Rhino, SketchUp, Vectorworks, Tekla, BricsCAD, Navisworks and Solibri open IFC4 directly. For schedules, the MAISHI_ArchitecturalMesh property set maps to shared parameters (model, open area, weight, materials).

Render textures (Textures)

Seamless tiles drawn from the same geometry: diffuse (stainless steel), opacity (white = metal, black = open) and bump. The real-world tile size is in the file name and in MAISHI_texture_scale.csv - enter it as the material image width and height (Revit: Appearance > Image > Scale; Enscape, V-Ray, Twinmotion, Lumion: texture size). Use the opacity map as cutout so light and views pass through the openings.

Accuracy

Values are nominal and calculated from pattern geometry for stainless steel (tolerance approx. 10-15%). Patterns with grouped wires (ASPECT 74, ASPECT 64, AXIS TWIN 64, AXIS QUAD 77) are drawn as an equivalent single-wire grid that reproduces the published opening, wire centers and open area; ASPECT REST 64 and VERTEX 83 use indicative spacing tuned to the published open area and weight. Crimp form is schematic. Confirm with a physical sample and MAISHI shop drawings before fabrication. Maximum panel size depends on pattern and alloy; structural and wind design by the project engineer.

Revisions and requests

Rev A, 2026-10-08. Native Revit families (.rfa), other alloys or finishes, project-specific panel layouts and shop drawings are available on request from sales@maishimfg.com.