STATE OF LOUISIANA
DEPARTMENT OF PUBLIC SAFETY AND CORRECTIONS
OFFICE OF STATE FIRE MARSHAL CODE ENFORCEMENT AND BUILDING SAFETY
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INDUSTRIALIZED BUILDING PLAN REVIEW CHECKLIST for compliance with the LOUISIANA INDUSTRIALIZED BUILDING ACT

Louisiana Revised Statute (LRS) 40:1730.51 through 40:1730.68, the "Louisiana Industrialized Building Act", requires Industrialized Buildings that are constructed after January 1, 2007, that are intended for sale or use in Louisiana, to meet or exceed the requirements of the Louisiana State Uniform Construction Code (LSUCC), R.S. 40:1730.21 through 1730.40.1, as well as the life safety, accessibility and fire codes, rules and laws enforced by the Office of the State Fire Marshal (OSFM), R.S. 40:1574 through R.S. 40:1593.

Prior to manufacture, plans and specifications for each industrialized building, module, and/or modular component are required to be submitted to the Office of the State Fire Marshal, Division of Code Enforcement and Building Safety, for review for compliance with all codes, rules and laws that are enforced by the OSFM. Plan review for compliance with the LSUCC building codes only may be performed by a third party provider that is properly registered with the Louisiana State Uniform Construction Code Council for the particular scope of work.

The information outlined in this document represents the minimum criteria necessary for this office to determine compliance. Please note that this list is not comprehensive or all-inclusive and does not address all aspects of every building type. In order to ensure that the proposed projects can be expeditiously reviewed, the requirements of the adopted codes and standards should be addressed in the documents submitted for review.

Applicable LSUCC building codes for new construction of, and renovations to, Industrialized Buildings – with Louisiana amendments, are as follows:

- **2021 International Building Code (IBC), (excluding Part 1, and Chapters 11 and 27);**
- **2021 International Existing Building Code (IEBC), (excluding Part 1);**
- **2021 International Mechanical Code (IMC);**
- **2021 International Plumbing Code (IPC);**
- **2021 International Fuel Gas Code (IFGC);**
- **2020 National Electric Code (NEC).**
- **2021 International Energy Conservation Code (IECC)**

The code amendments for Louisiana can be viewed here:
http://lsuccc.dps.louisiana.gov/pdf/Uniform_Construction_Codes_and_Amendments_Chapter17_effective_7-1-23_corrected_6-29-23.pdf

Applicable OSFM fire, life safety, and accessibility codes for new construction of, and renovations to, Industrialized Buildings are as follows:

- **NFPA 101 Life Safety Code, 2015 edition, and the standards referenced therein;**
- **NFPA 1 Fire Code;**
- **The fire protection and life safety provisions of the LSUCC adopted codes;**
- **Americans with Disabilities Act and Architectural Barriers Act (ADA-ABA) Accessibility Guidelines, 2010 Standard;**
- **HUD Fair Housing Act Design Manual (1998 revised edition) as per Fair Housing Accessibility Guidelines 24 CFR Part 100.205 1991.**

The Fire Marshal's Act codes and regulations can be viewed here: http://lasfm.org/sfm_fma.htm

Drawings and specifications shall also document compliance with applicable provisions of the Louisiana Revised Statutes (LRS), the Louisiana Administrative Code (LAC), the Architects Licensing Law, (L.R.S. 37:155), the Engineers/Land Surveyors Licensing Law (L.R.S. 37:696(B) & LAC 46:LXI.2701), and the Louisiana State Sanitary Code (LAC Title 51, as may be applicable).

The applicable general information contained in this checklist should be clearly identified on the drawings and/or specifications, or provided in the form of an attachment to the contract documents. An attachment is acceptable as long as it

is part of the official construction documentation. Failure to provide this information may delay the review of the project or cause it to be rejected for lack of significant information. Additional information and/or drawings are never discouraged and may be necessary to describe complex or unique conditions contained in the project. Please verify that each item below is: A. in your submittal, B. correct, and C. is coordinated within the submittal. Thank you for your help, in completing and coordinating the items in this checklist.

REVIEW APPLICATION, CHECKLIST, FEE & DOCUMENTATION

____ Completed Plan Review Application – ONLINE at https://lasfm.louisiana.gov/;

____ Plan Review fee, payable ONLINE. (Optional: mail check or money order (no cash accepted), payable to the LA Department of Public Safety, and send to OSFM, 8181 Independence Blvd., Baton Rouge LA, 70806).
Fee is calculated ONLINE after application process is complete (Fee Calculation schedule may be viewed on our website at http://lasfm.org/ib_info.htm);

____ Drawings shall be in PDF FORMAT uploaded ONLINE with the application. Drawings and specifications stamped by the Louisiana licensed architect or civil engineer (Professional of Record, (POR)) preparing the documents when applicable;

____ Structural calculations;

____ COMcheck compliance documents or approved equivalent compliance path documents;

____ Documentation identifying the third party inspector(s) retained to perform the in-plant inspections.

DRAWINGS AND SPECIFICATIONS FOR
INDUSTRIALIZED BUILDING CONSTRUCTION

COVER SHEET INFORMATION

___ Indicate the applicable codes and editions (as identified above);
___ Identify the proposed occupancy classification(s) [IBC Chapter 3];

- ___ Where the building contains multiple occupancy classifications, (not classified as "Accessory" to the main occupancy), indicate whether it's designed as "Separated Occupancies" or "Non-separated Occupancies" [IBC Section 508];
- ___ Identify any "Accessory Occupancies" [IBC Section 508.2] *(other occupancy types less than 10% of the main occupancy)*, and any "Incidental Use Areas" [IBC 509];
- ___ Identify if any "Special Detailed Requirements" based on use and occupancy apply [IBC Chapter 4];

___ Identify the new construction type (and existing if an addition) [IBC 602 (and IEBC Chapter 11 if an addition)];

___ Indicate the gross square footage of each floor, including any covered open areas that are subject to occupancy. If the project is an addition, identify the existing building area separately [IBC Section 503 and IEBC Section 1102]

___ Document compliance with the allowable height and building area limitations [IBC Chapter 5]. Provide calculations if area modifications are used [IBC Section 506]
___ Identify any Fire Protection Systems that are to be provided [IBC Chapter 9]:

- ___ Automatic sprinkler system type and extent; [IBC Section 903]
- ___ Alternative extinguishing systems; [IBC Section 904]
- ___ Standpipe system; [IBC Section 905]
- ___ Portable fire extinguisher size, type and locations; [IBC Section 906]
- ___ Automatic or manual fire alarm system and extent; [IBC Section 907]
- ___ Other fire protection / suppression systems.

Structural Design Data: (May also be indicated on the structural drawings)

___ Design loads must be included within the construction documents in a manner such that the design loads are clear for all parts of the structure [IBC Section 1603].

Design Loads:

___ Indicate the load values used in the design of the structural components, as applicable:

- ___ Floor Live load; [IBC Table 1607.1]
- ___ Floor Live loads above the first floor; [IBC Table 1607.1]
- ___ Corridor Live loads; [IBC Table 1607.1]
- ___ Roof Live load; [Table 1607.1]
- ___ Roof (ground) snow load; [IBC 1608]

Wind Design Data:

___ Indicate the following:

- ___ Wind Loads for the site location [IBC 1609];
- ___ Risk Category [IBC 1604.5 or ASCE 7-16];
- ___ Wind Exposure Category [IBC Section 1609.4] and applicable governing wind direction;
- ___ Applicable Internal Pressure Coefficient [ASCE 7-16];
- ___ Indicate the design wind pressures in terms of psf used for the design of exterior Component and Cladding materials.
- ___ Indicate the design method used to determine the wind loads (Take note of the specific limitations of each):
  - ___ Conventional Light-Frame Construction provisions of IBC Section 2308, (limited applicability),
  - ___ ASCE 7-16 Directional procedure for buildings,
  - ___ ASCE 7-16 Envelope procedure,
  - ___ ASCE 7-16 Directional procedure for building appurtenances and other structures,
  - ___ ASCE 7-16 Wind Tunnel Procedure for all buildings and other structures,
  - ___ AF&PA Wood Frame Construction Manual, (limited applicability),
  - ___ SSTD-10, (limited applicability),
  - ___ Other methods or manuals as allowed or required by the code for specific building construction methods.

Earthquake Design Data:

____ The following shall be shown regardless of whether seismic loads govern the design of the lateral-force-resisting system of the building: [IBC Sections 1603.1.5 and 1613]

- ____ *Risk category* [IBC Table 1605.5];
- ____ Seismic importance factor, I_e [ASCE 7-10 Section 11.5];
- ____ Mapped spectral response accelerations, S_S and S_1, [IBC Section 1613.3];
- ____ Site class – if applicable [IBC Table 1613.3 and ASCE 7-10 Chapter 20];
- ____ Design spectral response acceleration parameters, S_S and S_{D1}, [IBC Section 1613.3.4];
- ____ Seismic design category[IBC Tables 1613.3.5(1) & 1613.3.5(2) – Highest of the two];
- ____ Identify the basic seismic-force-resisting system(s) [ASCE 7-10 Section 12.2 or Section 12.14.4];
- ____ Indicate the design base shear [ASCE 7-16];
- ____ Seismic response coefficient(s), *Cs* [ASCE 7-16;
- ____ Response modification factor(s), *R* [ASCE 7-16];
- ____ Analysis procedure used [ASCE 7-16];

FLOOR PLAN INFORMATION

Provide floor plan(s) drawn to a scale indicated on the plan and dimensioned. Plan(s) should indicate as a minimum:

- ____ Room names and/or uses;
- ____ Door and Window locations;
- ____ Clearly indicate the type and locations of any required fire resistance rated or smoke rated construction used in the project. (See Fire-Resistance Ratings, Fire Walls, Fire Barriers, Fire Partitions, Smoke Barriers, Smoke Partitions, etc. [IBC Table 601 and Chapter 7]):
  - ____ Building Element protection required by the Construction Type [IBC Table 601]
  - ____ Exterior wall construction [Table 602] including opening protection [IBC Section 705 and Table 705.8]
  - ____ Incidental Use Area protection [IBC Table 509]
  - ____ Occupancy Separations (if Separated Occupancies) [IBC Table 508.4]
  - ____ Corridors [IBC Section 1018 and Table 1018.1]
  - ____ Interior Exit Stairway and Ramps [IBC Section 1022]
  - ____ Exit Passageways [IBC Section 1023]
  - ____ Horizontal Exits [IBC Section 1025]
  - ____ Fire Wall separations [IBC Section 706 and IBC Table 706.4]
  - ____ Fire Barriers and Fire Area Separations [IBC Section 707 and IBC Table 707.3.10]
  - ____ Fire Partitions [IBC Section 708]
  - ____ Smoke Barriers and Smoke Partitions [IBC Sections 709 and 710]
  - ____ Vertical Openings and Shafts [IBC Section 712 and 713]
  - ____ Other conditions that may require protection
- ____ Identify the listed tested assemblies, from an approved testing agency, used to achieve the fire resistance rating of the proposed construction (UL, ETL, FM, GA, WP, WH, etc.) including joints in the assemblies. [IBC Section 714,715 & 716]
- ____ Identify key features of the Means of Egress: (Chapter 10)
- ____ Indicate occupant loads for each room in Assembly (A1, A2, A3, A4, and A5) occupancies: [IBC Table 1004.1.2]
- ____ Indicate stair, corridor, aisle, and doorway widths in all occupancies: [IBC Section 1005]
- ____ Indicate locations of structural elements, including shear walls used to transfer lateral forces.

SCHEDULES and DETAILS

Provide sufficient information to identify features indicated in the construction documents:

- ____ Schedules to indicate door / frame and window opening sizes configurations, types, materials, fire resistance ratings and door operating hardware;
- ____ If the project is to be located in a wind borne debris region, (basic wind speed = 140 mph or greater), provide details, specifications and/or schedules to identify the method of opening protection used, and its anchorage to the building. [IBC Sections 1609.1.2 and 1609.2]
- ____ Identify the interior finishes used in each room of the project:
  Walls and Ceilings [IBC Table 803.5]
  Floors [IBC Section 804]

STRUCTURAL FRAMING INFORMATION

Provide framing plan(s) drawn to a scale indicated on the plan, dimensioned, and keyed to the floor plan(s). Plan(s) should indicate as a minimum:

____ Floor and roof framing plans (as applicable);
____ Identify structural members - Materials used, Sizes, and spacing;
____ Identify the Main Wind Force Resisting System. Provide sufficient detail to demonstrate that the structure has been designed to withstand the indicated design loads;
____ Locate lateral bracing, ties, clips, sheathing or other elements and materials used to reinforce or otherwise provide stability to the structure and provide continuous path for loads from roof to grade.
____ Provide anchorage details. Indicate types, locations, sizes and spacing;
____ Design loads must be included within the construction documents in a manner such that the design loads are clear for all parts of the structure [IBC Section 1603]. (See also COVER SHEET INFORMATION above)

EXTERIOR ELEVATION INFORMATION

Provide elevations of each side of the building. Plans should indicate as a minimum:
____ Vertical distance from grade to the average height of the highest roof surface [IBC Sections 502 and 504];
____ Opening locations and types indicated to scale;
____ For 140 MPH basic design wind speed areas and higher, documents should clearly identify methods used for opening protection;
____ Provide details and specifications to indicate that components and cladding (including the roof deck and roof coverings) are designed and are to be installed to withstand the pressures determined in accordance with ASCE 7-16.
____ Identify the lateral bracing system.

BUILDING AND WALL SECTIONS

____ Wall sections of each bearing wall condition, interior and exterior, to indicate a continuous load path through the structure from the roof to the floor system and the method of attachment to a foundation system at each condition;
____ Drawings should clearly indicate the components required to resist wind forces and to achieve the required "continuous load path" from roof peak to foundation anchorage.
____ Provide details and specifications to indicate that components and cladding are designed and installed to withstand the pressures determined in accordance with ASCE 7-16. (See also EXTERIOR ELEVATION INFORMATION above)
____ Identify structural members;
____ Identify materials;
____ Provide dimensions;
____ Specify anchorage/connector types used and indicate their proposed locations and spacing. (See also STRUCTURAL FRAMING INFORMATION above)

MECHANICAL INFORMATION

Provide mechanical drawings to indicate as a minimum:
____ Equipment types and locations;
____ Ductwork and piping sizes, CFM, and locations;
____ Mechanical ventilation air balance design calculations;
____ Return, supply, exhaust and outdoor air supply in accordance with IMC 403.1, 403.2, 403.2.1, 403.3 and Table 403.3 requirements; (see also IBC Section 1020.5)
____ Electrical and/or fuel gas requirements of proposed equipment;
____ Identify the devices used to protect duct penetrations and air transfer openings in assemblies required to be protected [IBC Section 717];
____ Smoke control system details (where required) [IBC Section 909 and IMC Chapter 5];
____ Commercial hood and duct system details (where applicable) [IBC Section 904 and IMC Chapter 5]. (See also checklist available on our website at www.dps.state.la.us/sfm)

PLUMBING INFORMATION

Plans should indicate as a minimum:
____ Fixture types and locations;
____ Usable Floor Space (IPC 403.1);
____ Water supply and distribution;
____ Identify piping materials, fittings, and valves;
____ Backflow protection of potable water;
____ Sanitary drainage and cleanouts;
____ Grease trap/interceptor type, size and location (where applicable);
____ Vent sizes and locations;
____ Plumbing riser and dimensioned Plumbing Layout Diagram(s);
____ Roof Drainage;

____ Water heating equipment size and type;
____ Identify the materials and methods of construction used to protect through penetrations and membrane penetrations of horizontal assemblies and fire-resistance-rated wall assemblies [IBC Section 714]

FUEL GAS INFORMATION

Plans should indicate as a minimum:
____ Fuel Gas type;
____ Pipe sizes, entrance location(s) and controls;
____ Equipment and appliance locations;
____ Schedules of equipment and appliance demands;
____ Required clearances to combustible materials;
____ Combustion, Ventilation, and Dilution air requirements, locations and details;
____ Chimney and vent sizes, locations, and details;
____ Identify the materials and methods of construction used to protect through penetrations and membrane penetrations of horizontal assemblies and fire-resistance-rated wall assemblies [IBC Section 714]

ELECTRICAL INFORMATION

Plans should indicate as a minimum:
____ Receptacle and Lighting locations with circuits identified and symbol legends;
____ GFCI locations;
____ Exit Signage and Emergency Lighting locations [IBC Sections 1006 and 1011];
____ Equipment and Fixture schedules;
____ Indicate Meter type and location;
____ Panelboard ratings & locations;
___ Surge Protection per NEC 230.67
____ Balanced panel load schedules in amps and KVA;
____ Size and ratings of all overcurrent protection devices;
____ Specify all conductor sizes in accordance with NEC 215.5, 215.2, 220.3 and 230.4.
____ Identify the materials and methods of construction used to protect through penetrations and membrane penetrations of horizontal assemblies and fire-resistance-rated wall assemblies [IBC Section 714]

ENERY CODE COMPLIANCE

Provide COMcheck documents or equivalent optional compliance path permitted by the IECC to document compliance.

___ Construction documents shall contain the following information as applicable:
- ___ Insulation materials and their *R*-values.
- ___ Fenestration *U*-factors and solar heat gain coefficients (SHGCs).
- ___ Area-weighted *U*-factor and solar heat gain coefficient (SHGC) calculations.
- ___ Mechanical system design criteria.
- ___ Mechanical and service water-heating systems and equipment types, sizes and efficiencies.
- ___ Economizer description.
- ___ Equipment and system controls.
- ___ Fan motor horsepower (hp) and controls.
- ___ Duct sealing, duct and pipe insulation and location.
- ___ Lighting fixture schedule with wattage and control narrative.
- ___ Location of *daylight* zones on floor plans.
- ___ Air barrier and air sealing details, including the location of the air barrier.