

# **ICE LOADING REGULATIONS**

## **Purpose :**

*To identify, to analyse, to prevent, and to make improvements for controlling, reducing, or eliminating of risks and danger on each job that is done in ICE areas.*

There are three points that received special attention from ICE Management, namely :

1. CONSTRUCTION
2. RIGGING
3. LED / BACKDROP

Each points will be explained respectively regarding the rules and regulations of ICE Management.

Please have more attention so there will not be any miscommunication and hopefully the process of loading or setup went smoothly.

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## - **CONSTRUCTION**

### **Must Read :**

- Tentative design and layout of exhibition together with planned electrical equipment to be used shall be submitted to ICE for review and approval at least 2 weeks prior to the start of installation works. The exhibitors and their contractors are required to strictly follow all the rules and regulations of ICE Exhibition Operations Work Guidelines.
- Where applicable, prior to start installing of exhibition works and making any connection to existing electrical power system, please obtain approval or guidance from ICE Engineering team.
- Install each item properly in place, accurately located and aligned with other work. Clean exposed surfaces and protect as necessary to prevent damage and defect to building materials.
- Comply with safety regulations and always use appropriate personal protective equipment (i.e. safety shoes, hand gloves, goggles, dust mask and heavy duty hand gloves for electrical tools, if necessary). Refer to safety regulation on the use of personal protective equipment.
- Ensure that tools and equipment are in good working condition prior to use and kept in proper storage area.
- Use appropriate lifting equipment when lifting heavy objects.
- Do not leave tools and other equipment unattended.

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**In order to keep ICE facilities on good condition**, please read points below :

- The contractor/organizer shall continuously protect ICE property from damage and loss or injuries to people from their work or operation.
- The contractor/organizer shall protect all finished surfaces, including the jambs and soffits of all openings used as passage ways or through main access
- The contractor/organizer shall not load or permit any part of a structure to be loaded with weight that will endanger its safety or stability.
- The maximum height of booth construction inside Exhibition Hall is 10 meters from the Hall floor.
- Ground Rigging is not allowed to support Hanging Rigging

**Example :**

- add bottom layer covering for any constructions inside Exhibition hall ICE.

Booth, ground rigging, ringlock, pool, and hydraulic system in syklift for hoist installation in hanging point ICE.



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- add bottom layer covering for any constructions in Pre-Function and Paving Block area



- For Nusantara Hall, it is a mandatory to add bottom layer covering before any construction begin to protect the carpet.



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- **RIGGING**

## ICE RIGGING / TRUSS REGULATION

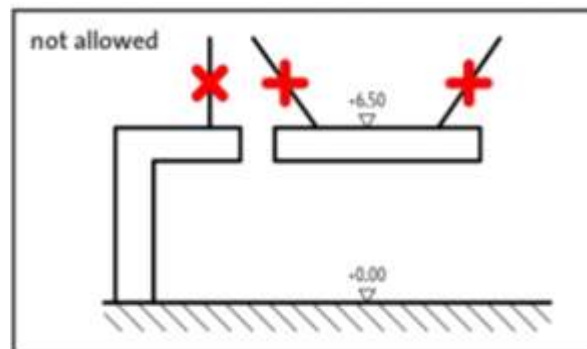
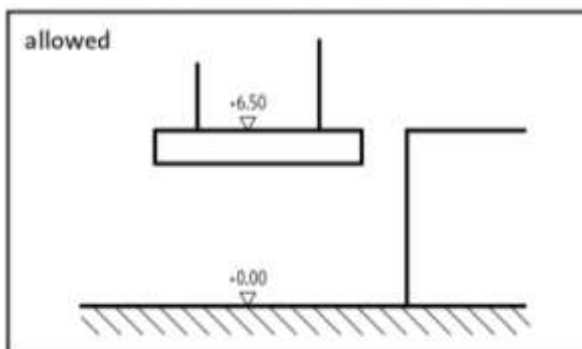
EVENT NAME & DATE		EXH-ICE/2019/...../.....
HALL		
VENDOR (PREFERRED)	(NO / YES). VENDOR NAME:	
SUBMITTED DESIGN/DRAWING	(NO / YES). DATE SUBMITTED:	
RIGGER		
POINT USED		
WEIGHT	RIGGING/TRUSS ONLY:	TOTAL:

### **OVERVIEW**

Applicable safety provisions must be observed in the assembly of the objects to be suspended. Loads must always be connected to the cable vertically using the specified rope locks. It is prohibited to attach any loads subject to dynamic/continuous motion. The following information regarding allowable and unallowable structures, lifting gear, suspension elements, load suspension equipment and connectors.

### **STRUCTURAL CONSIDERATIONS**

The object to be suspended must be located within the stand boundaries up to a maximum stand height. Suspended objects may not be used to secure items exhibited on the floor of the stand or stand components. No oblique loads may be applied to the roof support structure. Lighting fixtures, monitors, loudspeakers, etc. must additionally be secured by a second, independent safety line.





## 2 TON RIGGING POINT

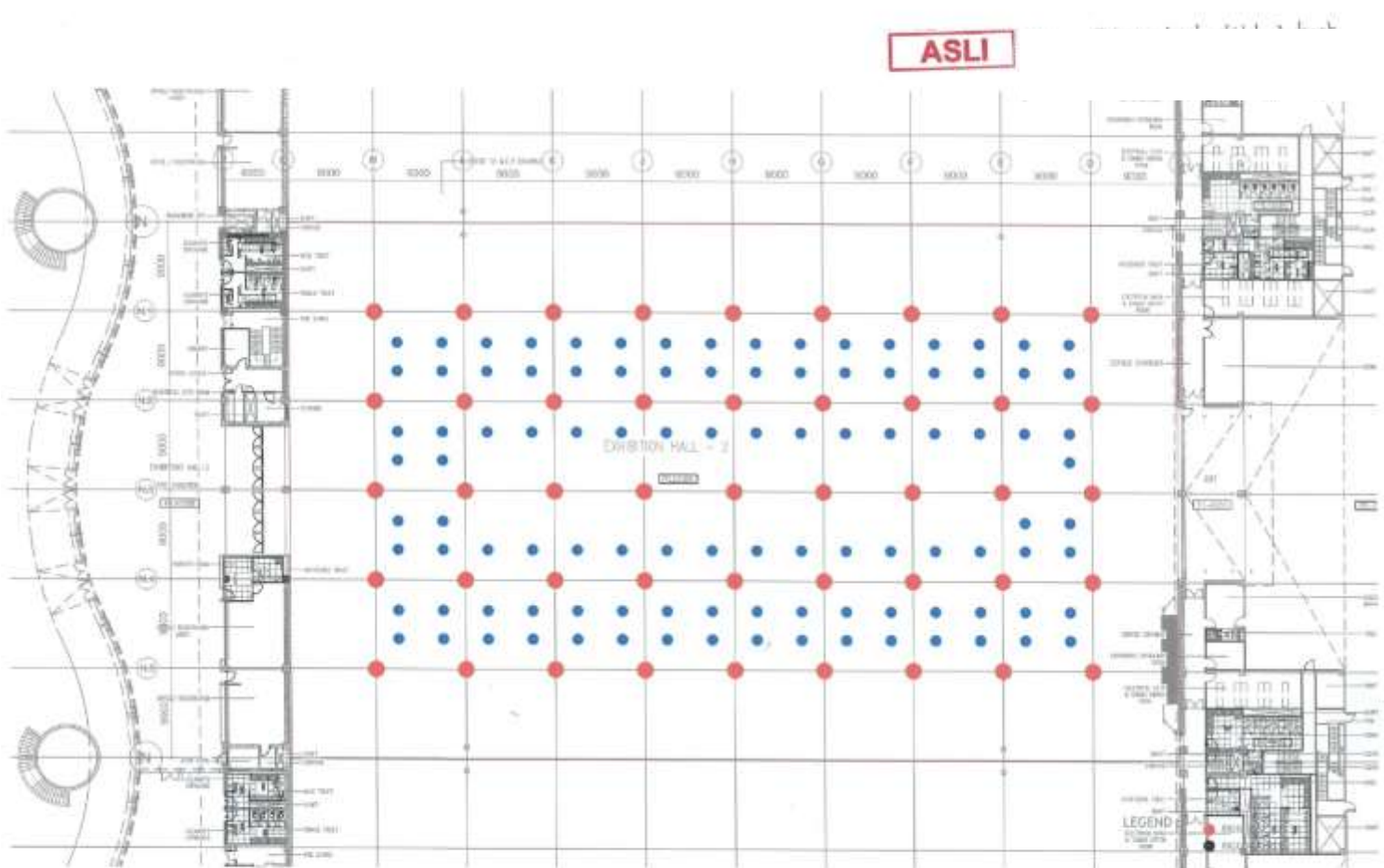
### LOCATION

The 2 ton rigging points in the Exhibition Hall are located in the middle of structural junction at every 9 meters. **Web sling or Belt must be hanged in this point. Maximum height is 12 meters from the floor.**

## 100 Kg RIGGING POINT

### LOCATION

The 100 kg rigging points in the Exhibition Hall are located in the 2.25m or 3m grid between the main 9m beam intersections and are **only used for hanging banners. Maximum height is 12 meters from the floor.**



## 1 TON RIGGING POINT

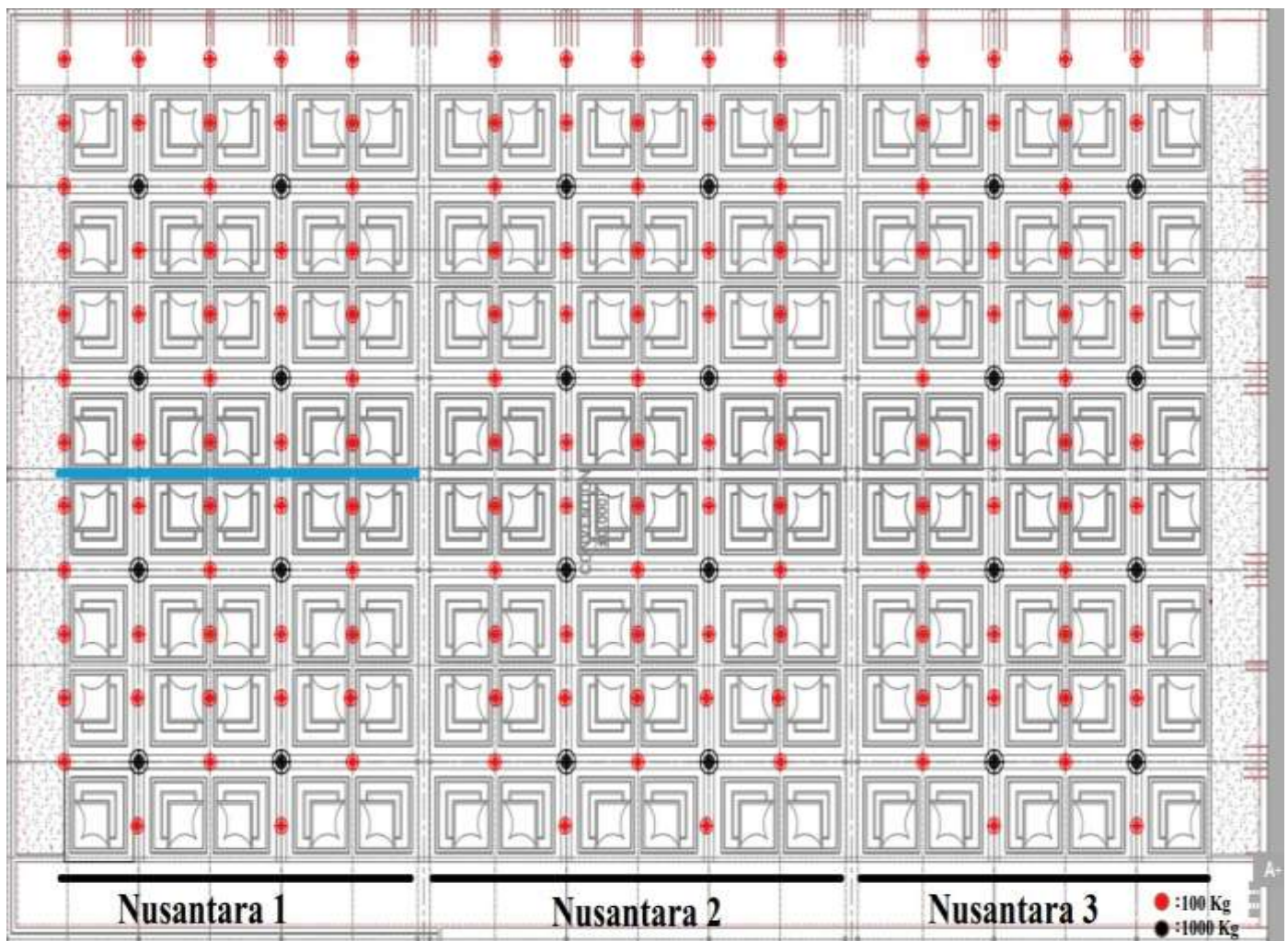
### LOCATION

The 1 ton rigging points in the Nusantara Hall are located in the middle of structural junction at every 9 meters. **Shackles or Web sling or belt must be hanged in this point.**

## 100 Kg RIGGING POINT

### LOCATION

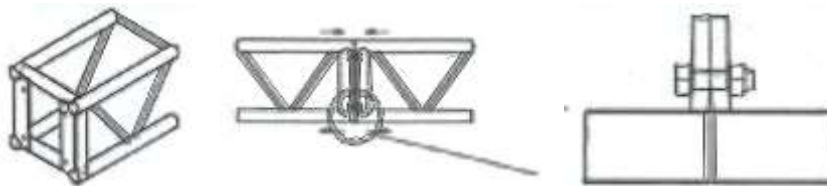
The 100 kg rigging points in the Exhibition Hall are located in the 2.25m or 3m grid between the main 9m beam intersections



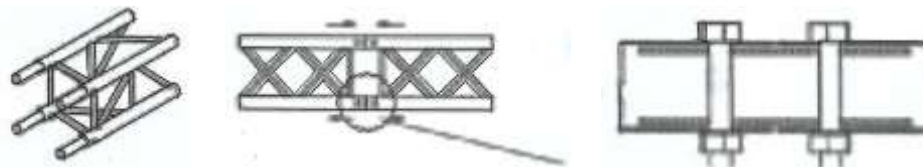
Sign

## CONNECTION TYPES

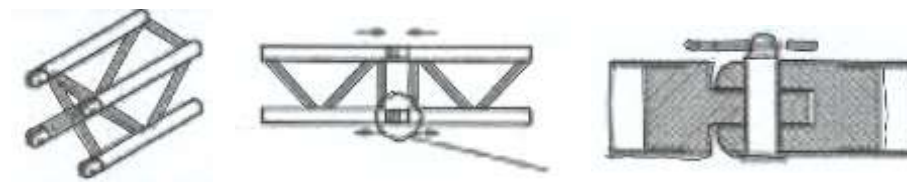
- **Plated Connection**



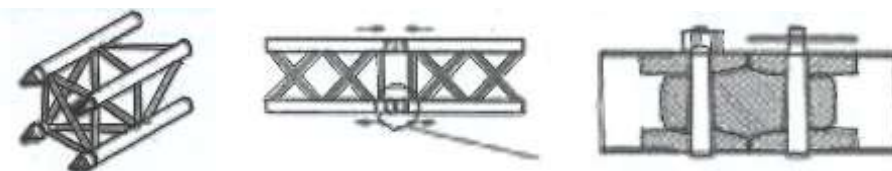
- **Tube Connection**



- **Pin/Fork Connection**

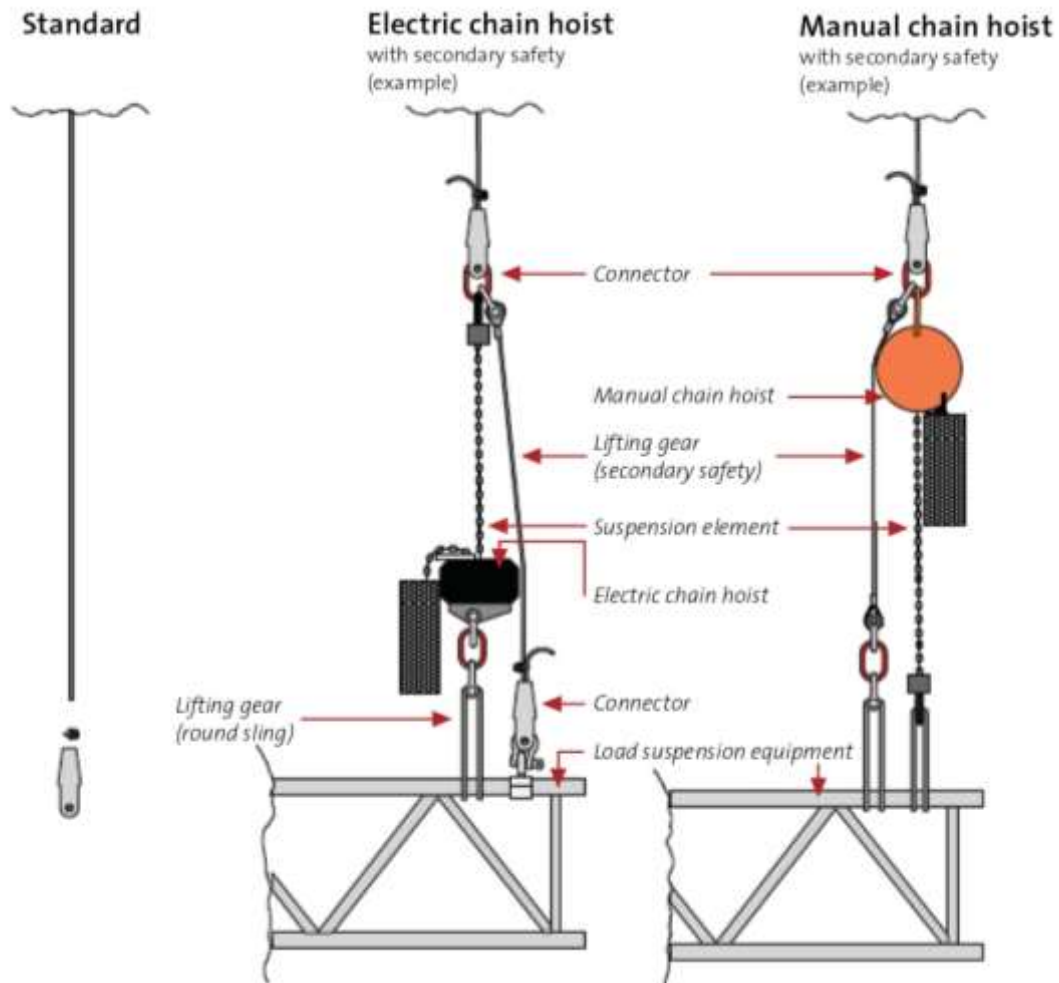


- **Conical Connection**





## ACCESSORIES FOR SUSPENDED OBJECTS



Standard load transfer point, consisting of 8mm steel rope with rope lock (not pre-installed)

Electric Chain Hoists must be equipped with a secondary safety line when supporting a load above people

Manual Chain Hoists must be equipped with a secondary safety line when supporting a load above people

## RECOMMENDED ACCESSORIES FOR SUSPENDED OBJECTS

- Wire Rope



- Round Slings with steel inlay



- Round Slings with polyester fibre



- Short-link chain



- Closed Safety hook



- Closed O-ring



- Turnbuckle



- Shackle



- Quick – Release Link



- Suspension Beam



- Suspension Fitting



- 4 point truss with permissible load



## NOT RECOMMENDED ACCESSORIES FOR SUSPENDED OBJECTS

- Fibre ropes



- Long-link chain



- Open hook



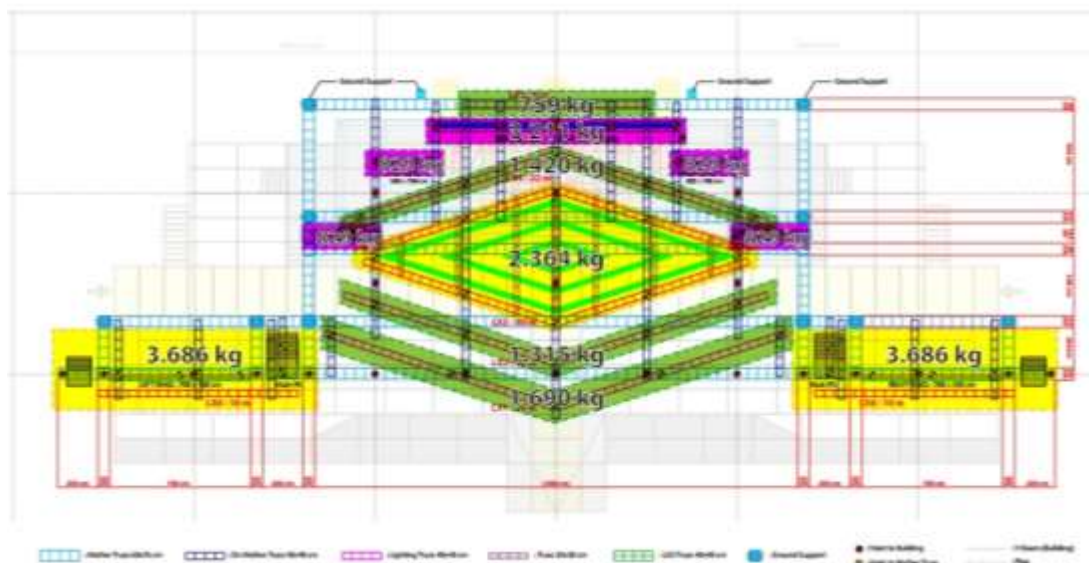
- Carabiner hooks



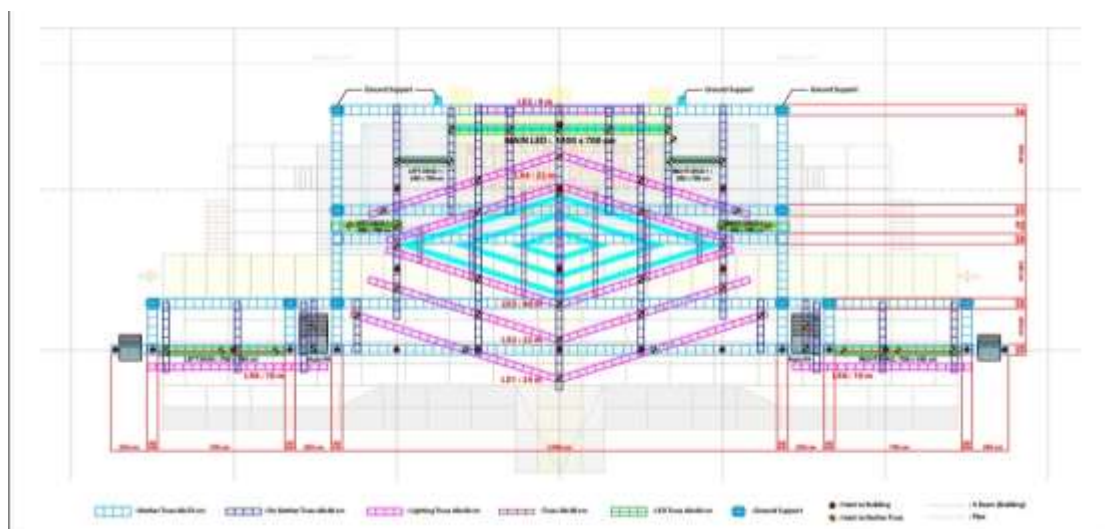
**All necessary documents (including TOP VIEW , FRONT VIEW and SIDE VIEW) must be brought along and presented on request !**

Rigging Plan and Layout Drawing examples that must be submitted to ICE :

## Load



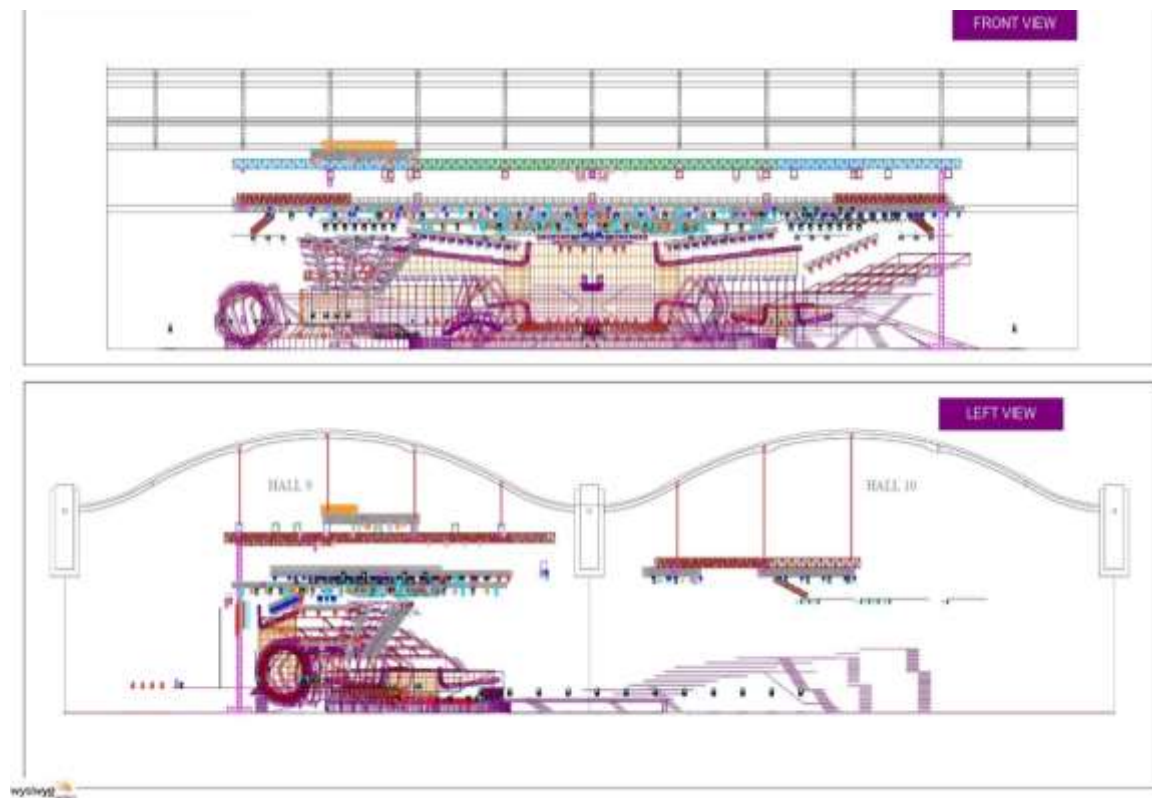
## Main Truss



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## Effect



### Information that must be **APPLIED** :

- Tackle or electric chain hoist must be installed in the 2 ton rigging point or in the beam crossing point from the layout drawing that has been approved by ICE.
- ICE Operations Team are allowed to ask vendor or installer to adjust hanging in 2 ton rigging point and **have the right to not allow installation if it is not in accordance with layout drawing that has been approved by ICE or if it is not in accordance with the 2 ton rigging point**

## • BACKDROP / LED

### ICE BACKDROP / LED DISPLAY REGULATION

EVENT NAME & DATE		EXH-ICE/2019/...../.....
HALL		
VENDOR		
DESIGN APPROVED	DATE :	
PIC		
SIZE		
WEIGHT	AS PER MODULE:	TOTAL:

#### OVERVIEW

In general there are 2 types of LED installation, both indoor and outdoor :

##### 1. Hanging

A number of LED with a certain size are suspended from one overhead frame system, truss / rigging system or other supporting structures from above.

##### 2. Ground /Stacked

A number of LED with a certain size are placed on ground, floor, stage, deck scaffold according to the needs and for aesthetics.

#### EXAMPLES OF APPROVED BACKDROP AND LED CONSTRUCTION



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**All necessary documents (including STAGE LAYOUT, LED LAYOUT, DETAIL LED USED, etc.) must be brought along and presented on request !**

**Information that must be APPLIED :**

- Make sure Backdrop / LED Construction are safe to prevent undesirable incidents
- There must be several solid pipes for safety reasons to avoid collapsing accident
- ICE Operations Team are allowed to ask vendor or installer to add more safety points and **have the right to not allow installation if it is deemed unsafe / dangerous or if it is not in accordance with ICE Regulations**

### **WORKER'S SAFETY**

Every worker must work in accordance with safety regulations and use appropriate Personal Protection Equipment :

- Polite and Neat Clothes
- Using helmet and safety shoes
- dust mask, hand gloves and goggles if necessary
- Full Body Harness if working at height



**(ICE Loading Regulations Agreement Form for  
Event Organizer/ Vendor/ Contractor)**

**IDR 2,000,000,00 Fine per violation will be given to  
anyone who does not obey this regulations**

**Thank you for your kind attention and cooperation.**

**I will comply with all applicable regulations.**

Name \* :

Company's Name \* :

Event Name \* :

Date / Time \* :

Phone Number \* :

***\*Required to be filled completely***

*For More Information, please contact*

*Arya Pradana (Exhibition Manager)*

*+628121075759*

Tangerang,

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