

1) SECURITY

1.1 Advices about electricity

Disconnect the power from the system before starting any assembly operation.
Do not use electrical cables for higher loads than the specified voltage and current.

1.2 Operational advices

Do not use different cables for which the festoon system is specified.
Any change in number, diameter, weight, etc., may affect the normal operation of the cable system.

1.3 Maintenance advice

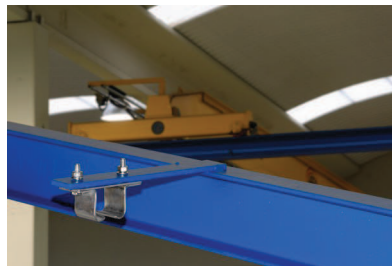
The modification of the number and/or characteristics of the festoon system components cancels the warranty.

2) INSTALLATION

The support structure for the festoon system must be capable of supporting the total weight of the festoon system.
Place the support along the beam through which the hoist is to be circulated. These supporting arms could be:



STANDARD BRACKETS



BEAM WELDED JOINT BAR



BEAM WELDED SUPPORT

2.1 C-PROFILES (SERIES 2316, 2400, 2310 AND 2336).

These points must be located every 2m, except in the parking area where they must be located every 1m.

Install the first profile in the supports without tightening the screws.

Assemble the next profile section on its corresponding supports in the same way as the first.

Join these profiles using the joints that guarantee a continuous travel between both sections. Tighten the screws once the joint has been placed in the middle of both profile sections. Repeat the same operation for the rest of the profile sections.

Once all the profiles have been assembled, we will proceed to align the path with respect to the rolling hoist on the beam, crane, etc. Once the alignment is correct, we will proceed to tighten the screws of the supports.

2.2 DIAMOND PROFILE (SERIES 2307).

Take into consideration that the supplied line is manufactured according to the dimensioned drawing from the customer. All the tracks (straight and curved) have connecting holes at both edges for installing the joints 2307-3 which allows assembling the complete track. Another holes are drilled on the track to allow the assembling of the supports 2307-4.

Place the tracks on the floor just under the beam. Tracks are numbered:

- The first track with - 1.
- The second track with 1 - 2.
- The third track with 2 - 3.
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Assemble the supports on the first track and lift it near to the beam. Mark the place where the supporting arms have to be placed.

Assemble the supporting arms along the beam.

Joint consecutive tracks in order to make a continuous track. Tighten the screws of every joint.

Assemble supports where required.

Repeat the same operations for the restant tracks.

Check that the track is correctly in paralell with the beam.

2.3 CABLE TROLLEYS ON I-BEAM (SERIES 2347).

Position for supporting points has to be calculated by customer accoding to weight of the festoon system and the type and size of the I-beam for the festoon system.

Consider the ambush area will be more loaded.

After welding the beams together, the seams on the flange of the beam where the main wheels and rollers are going to run should be ground smooth avoiding: Burrs, welding drops, painture drops, misalignments, etc.

In this way, the shocks will be reduced and the service life of the wheels will be longer.

Check that the track is correctly in paralell with the beam.



Cut the necessary length of electrical cable leaving enough length on both sides to make the electrical connections later. Make marks with white chalk on the cable in the required points, according to the height of the loop or number of trolleys to be assembled. Put the cables in the saddle (biggest cables should be mounted on top of the cable package).



Tighten the screws of the cable holders avoiding damaging the cables due to excessive tightening. The cable package should be as centered as possible on the cable holder, so that the trolley runs in a balanced way. Make sure that the smallest cables do not slip into the cable package.



Insert the festoon system into the profile, starting first with the towing trolley and then following the cable trolleys. Insert the end clamp last. The cables must be mounted without any rotation.



Tighten the end clamp at the end of the profile. Make the connections of the cables on both sides of the system in their respective connection boxes. Finally, connect the earth connection between the festoon system rail and the beam for the hoist welding the steel shoe on it.

3) OPERATION

3.1 Previous tests

Carry out several travels by hand to check that it moves throughout its length without problems.

Check that there is plenty of space in the ambush area.

Check that the cable loops don't get hooked in any part of the travel.

In the cable management system, check the correct height between the pushbutton pendant control station and the floor.

3.2 Final tests

Once the electric current is connected, check that the trolleys move forward and backward without problems.

Check that the device, the festoon system is powered on, works correctly.

3.3 Normal functioning

Do not exceed the maximum voltage and / or amperage specified for the electric cables.

Use the festoon system within its corresponding electrical and / or mechanical specifications.

4) MAINTENANCE

Perform periodic maintenance tasks to ensure the status of the festoon system. The maintenance operations will depend on the use given to the system.

During each inspection the following points should be checked:

- Wear of ball bearings.
- Ensure screws are correctly tightened.
- Separation or alignment in the joints.
- Electric cables: Cuts, cracks, etc.
- Earth connection: Check any possible electrical current is derivated to earth.
- The profile must be clean in the running edges.