



**X-TEND® STAINLESS STEEL MESH
INSTALLATION INFORMATION**



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X-Tend Product and Technical information

Introduction

X-tend is a flexible, high-quality material that has a variety of uses. As the only metallic material in existence that concurrently accommodates stretch and tension in all three dimensions, it is uniquely suited to a variety of applications. Some of X-tends characteristics are listed below:

- X-tend is extremely durable. It does not age. It is unaffected by sunlight, corrosion, or environmental contaminants;
- X-tend brings together several previously exclusive properties: translucency, strength, durability and beauty. It truly is a long-term design solution that is a remarkable value;
- X-tend is manufactured to be a long lasting material. The combination of high quality materials and careful control during fabrication (Carl Stahl GmbH is ISO 9001 compliant), ensure optimal results.
- X-tend is very environmentally friendly: the amount of raw material used in manufacturing the X-tend product very low for the amount of coverage provided and it has an extremely long life span. If for any reason X-tend would be taken down from an installation, it is 100% recyclable;
- Beauty and transparency: X-tend possesses a dull, silver sheen that blends easily into the surrounding environment. As X-tend is stretched into position, the thin stainless wire ropes mean that the net is hardly visible giving a lightness to the structure without loss of functionality;
- High strength: X-tend uses only seamless ferrules for strength and security. It has been totally engineered to industrial quality standards to be suitable for almost any task where to strength and dependability cannot be questioned. To date, no damage to an X-Tend installation has been reported even in public applications, including vandalism;
- Innovation: X-Tend is unique, and has been awarded several prizes for innovation;
- Flexibility: 3D flexibility allows maximum creativity in planning and execution of projects;
- Full engineering and technical support from project conception through completion. Call your DecorCable Innovations salesperson for details.

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1. Assembly of Rectangular X-TEND Net with finished, loop ends and open ferrules:

1.1 Initial Setup:

If your frame will span several support posts, mount your frame to the posts before proceeding or insert a temporary support member (such as a piece of wood) between the horizontal frame members. Otherwise your frame will collapse under the tension of the net. Lay them out on a clean floor or worktable with access on all four sides. At this time, gather and prepare the following items to be used during the mounting process:

Articulated Locking Pliers for ferrules (ex. McMaster Carr part # 51505A25)

12" zip-ties for wrapping mesh to frame;

Ferrules and cable included with your X-tend shipment;

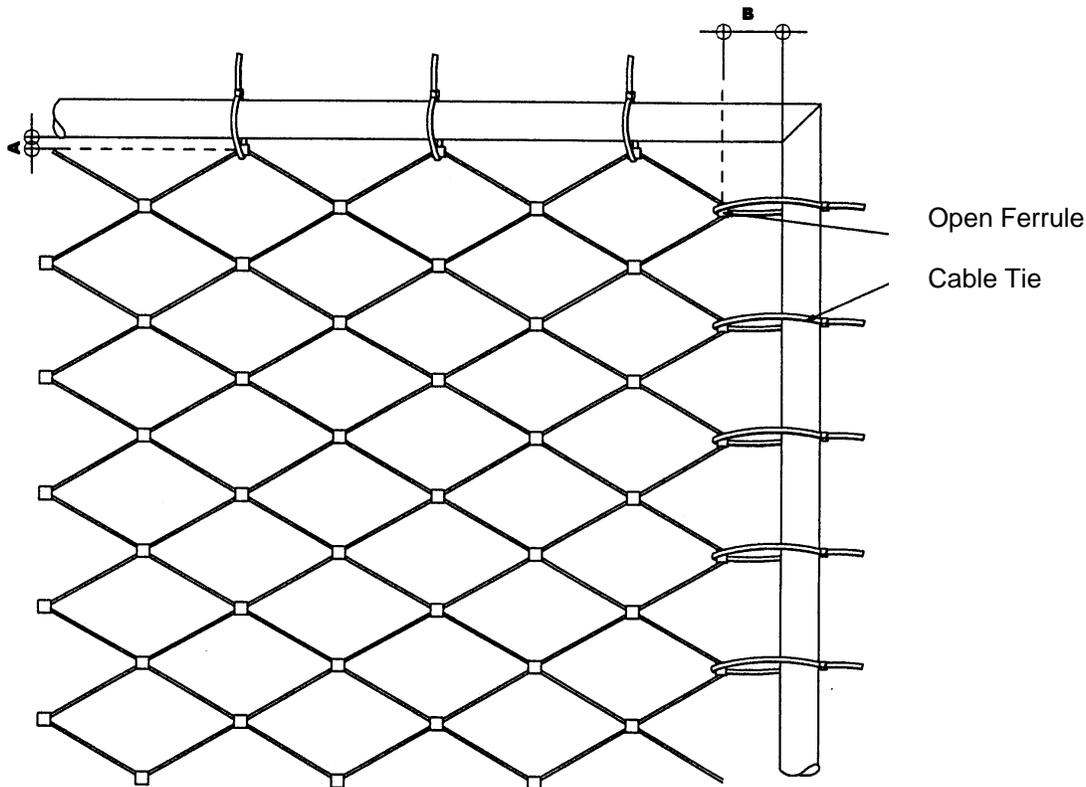
Flat front end cutter (ex. McMaster Carr part #3738A3).

Wire rope Cable cutters.

Gloves

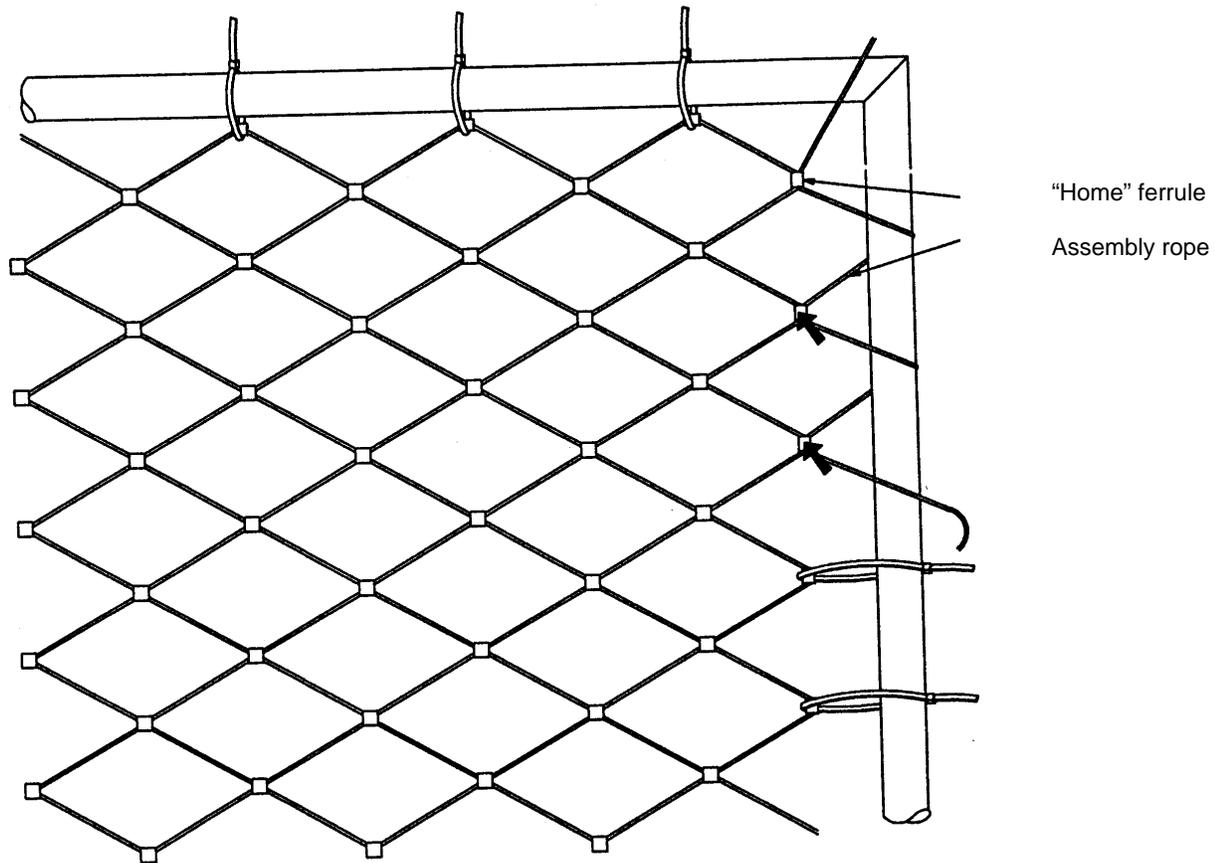
1.2 Prepare and mount the X-tend to the frame:

Begin by attaching the X-tend to your frame with cable ties. This will facilitate installation as well as begin to give you an idea of the final proportions of the diamonds, etc. Notice that the edge diamonds are located so that upon final tensioning, there will be approximately a half diamond all around the frame.



1.3 Attach and tension the X-tend on frame:

Take the measurement of the circumference of your frame and multiply the number by $2\frac{1}{2}$. Uncoil and measure out this amount of mounting cable. Make sure to remove all twists. Begin the attachment procedure by stringing the cable through the first open corner ferrule. This is the "home ferrule". Wrap the cable around the vertical frame member and pass through the next open ferrule. Continue "lacing" the X-tend onto the frame. At this stage of installation, do not swage or pinch any of the ferrules. Work the cable through the ferrules in stages of 3 to 4 feet. Stopping to adjust the tension of the net and cut the cable ties. As you finish the last side of the frame, begin final adjustment of the net tension by aligning all open ferrules along the interior of the frame.



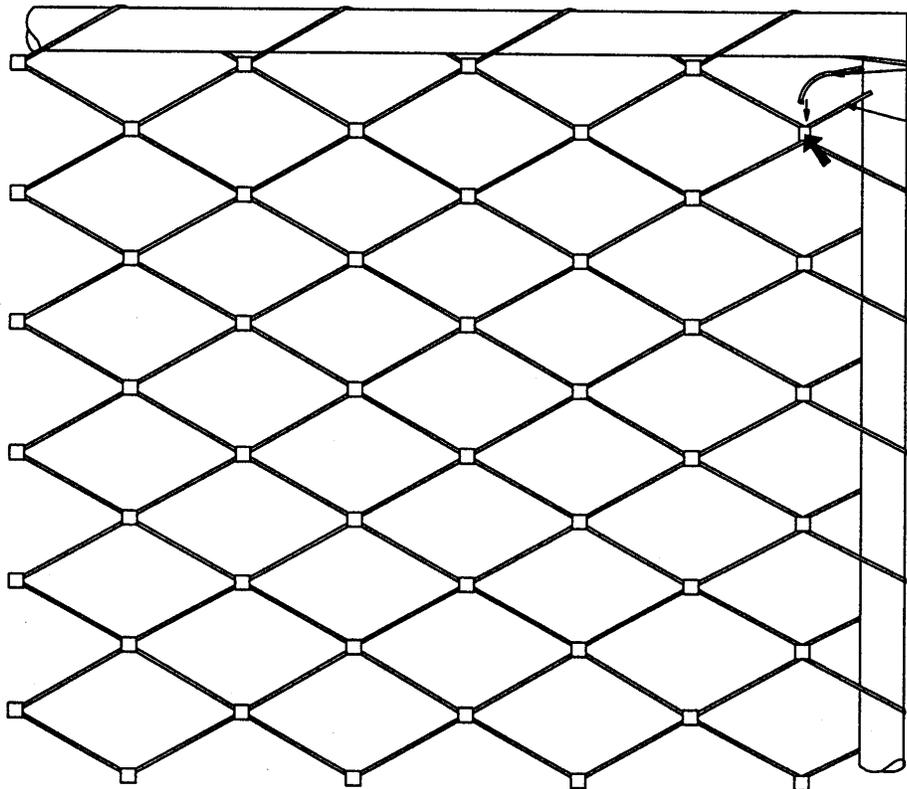
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1.4 Final tension adjustment and tie-off:

As soon as the lacing procedure is completed, run the cable through the home ferrule in the same direction as you started. You now have cable sticking out of both sides of the home ferrule. In order to make final adjustments easier, cut off any excess cable over 3 or 4 feet

Pull the ends of the cable in opposite direction as though you were tightening a shoelace. As you hold the ends of the cable, have an assistant even out the overall tension of the net. The diamonds should all be relatively uniform. As you retain the tension on the lacing cable, have the assistant swage (flatten out) the home ferrule with either the swaging tool or the pliers. It is very important that this ferrule be securely closed on the cables! . Please note there is no reason to swage or close any other ferrules than the home ferrule!

Cut the remaining rope ends and mount your assembled X-tend frame combination to your support posts. If you needed supplemental support members for the frame, remove them last.

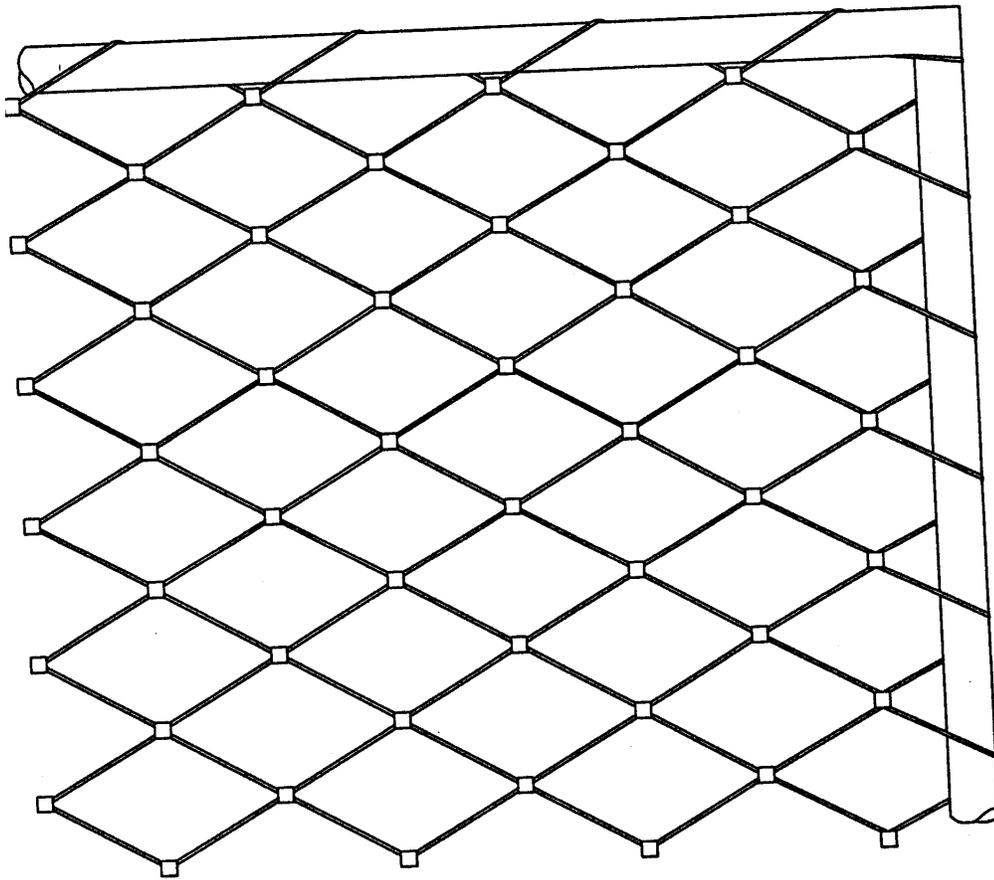


End of assembly rope is mounted to the open ferrule.

The beginning of the assembly rope is swaged together with the end of the assembly rope in the open ferrule.

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1.5 Finished X-tend panel:



2. Assembly of X-TEND Net for Diagonal (Staircase) Frame:

2.1 Initial Setup:

If your frame will span several support posts, mount your frame to the posts before proceeding or insert a temporary support member (such as a piece of wood) between the horizontal frame members. Otherwise your frame will collapse under the tension of the net. Lay them out on a clean floor or worktable with access on all four sides. At this time, gather and prepare the following items to be used during the mounting process:

Articulated Locking Pliers for ferrules (ex. McMaster Carr part # 51505A25)

12" zip-ties for wrapping mesh to frame;

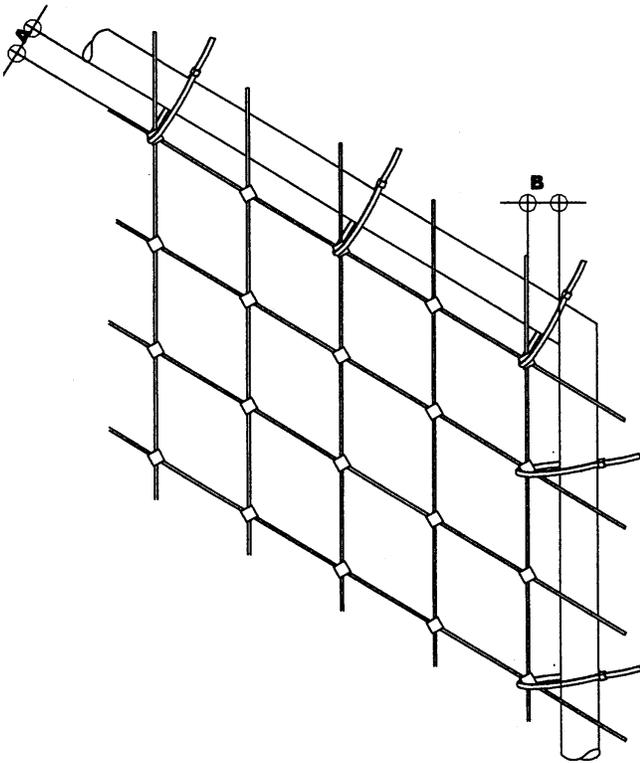
Ferrules and cable included with your X-tend shipment;

Flat front end cutter (ex. McMaster Carr part #3738A3).

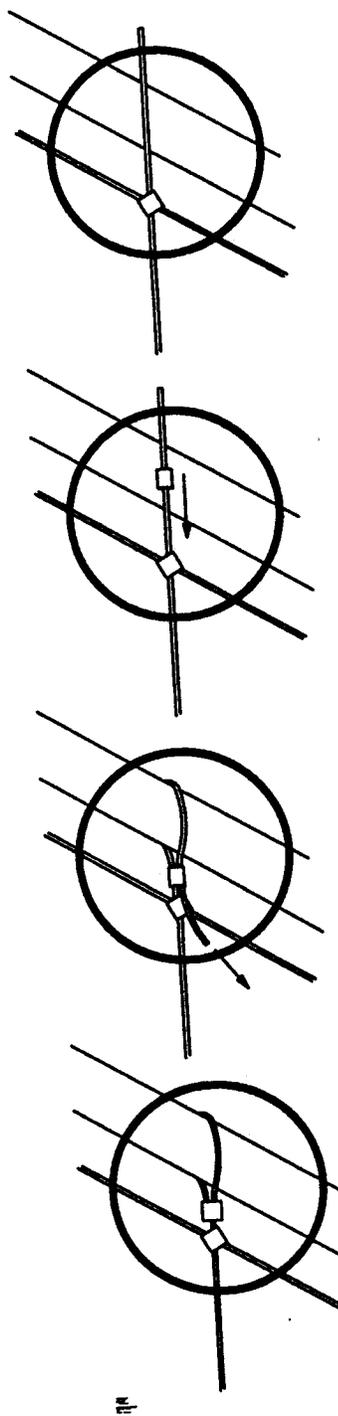
Wire rope Cable cutters.

2.2 Prepare and mount the X-tend to the frame:

Begin by attaching the X-tend to your frame with cable ties on all sides. This will facilitate installation as well as begin to give you an idea of the final proportions of the diamonds, etc. Bring net under uniform tension. Allow approximately one inch between frame and diamonds around interior of frame.



3.3 Size X-tend and Construct Loops:



1 Take loose rope end and wrap around rail.

2 Add new ferrule to rope and slide it down as far as it will go.

3 Form loop by taking cable back through open ferrule.

4 Repeat this process, forming all loops. At this point, do not cut the cable or tighten or swage the ferrules.

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3.4 Final tension adjustment and tie-off:

As soon as the loops and ferrules have all been installed, review the tension on the net. Ensure that the diamonds line up with the direction and size of the diamonds is in alignment with the frame. Adjust tension on cable ties, if necessary. Begin tightening and swaging the ferrules using the vice grips, channel-locks or swaging pliers. Once all ferrules have been closed, again review tension on the net. Open, adjust and reclose any ferrules to ensure uniform net tension. After net tension and shape is satisfactory, cut ends from cables.

