



# SPEEDFAN

**INSTALLATION MANUAL  
FOR CANADA**

**APRIL 2015**

## 1. TECHNICAL DETAILS

### **Safety nets must be installed according to the following:**

- 1.1 Speed Fan top and bottom feet have to be anchored with  $\frac{1}{2}''$ Ø Hilti Kwik Bolt 3 or equivalent, minimum  $3\frac{1}{2}''$  embedment.
- 1.2 Speed Fan is only to be used with guardrails or fall arrest equipment meeting the requirements of the Ontario Health & Safety Act.
- 1.3 Personnel are not allowed on the net at any time.
- 1.4 Installers are to wear fall protection equipment meeting the regulations of Ontario Health & Safety Act, tied to existing building structure.
- 1.5 Speed Fan is intended to catch loose material less than 75 lbs. (34kg) at a height of 20 feet (6.1 metres).
- 1.6 Speed Fan does not replace overhead protection required by section 34 of the Ontario Health & Safety Act but is intended to be in addition to overhead protection.
- 1.7 Speed Fan is not intended for personnel fall protection.
- 1.8 Remove debris from netting by closing Speed Fan and removing debris from netting to the working floor.
- 1.9 Debris to be removed from netting on a daily basis.
- 1.10 When the wind speed exceeds 30 km/h or the weather conditions are adverse, do not attempt to raise the Speed Fan from floor to floor using the lifting device (Ld280).
- 1.11 Do not allow snow to accumulate on the Speed Fan netting. Accumulated snow will reduce the capacity and effectiveness of the Speed Fan.
- 1.12 Speed Fans should be put in the closed position prior to or during a snowstorm to prevent snow from accumulating on the netting. Remove any snow that is on the Speed Fan on a daily basis.
- 1.13 For other provinces refer to your local safety codes and standards or contact us.

---

All our netting complies with stringent UK and European regulation EN 1263-1:2002.

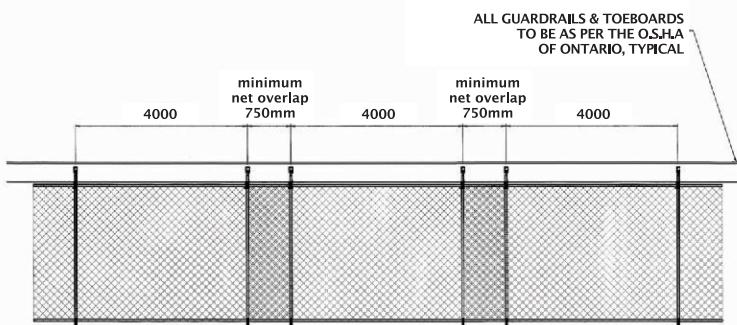
---

#### **DISCLAIMER:**

For specific use, loads, codes, installation options, refer to your local area safety code requirement and contact Integrity Worldwide Inc. for verification.

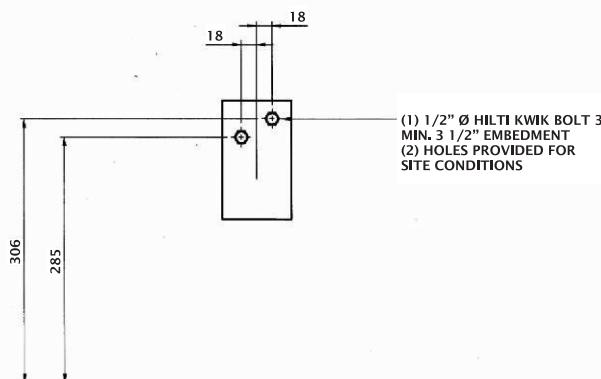
Always use protective gloves and required Personal Fall Protection Equipment (PFPE) when installing, repositioning, and removing edge protection systems!

## SPEED FAN

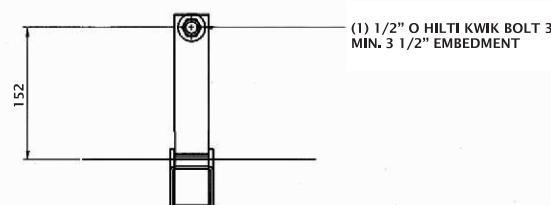


### SPEED FAN - PLAN OPEN

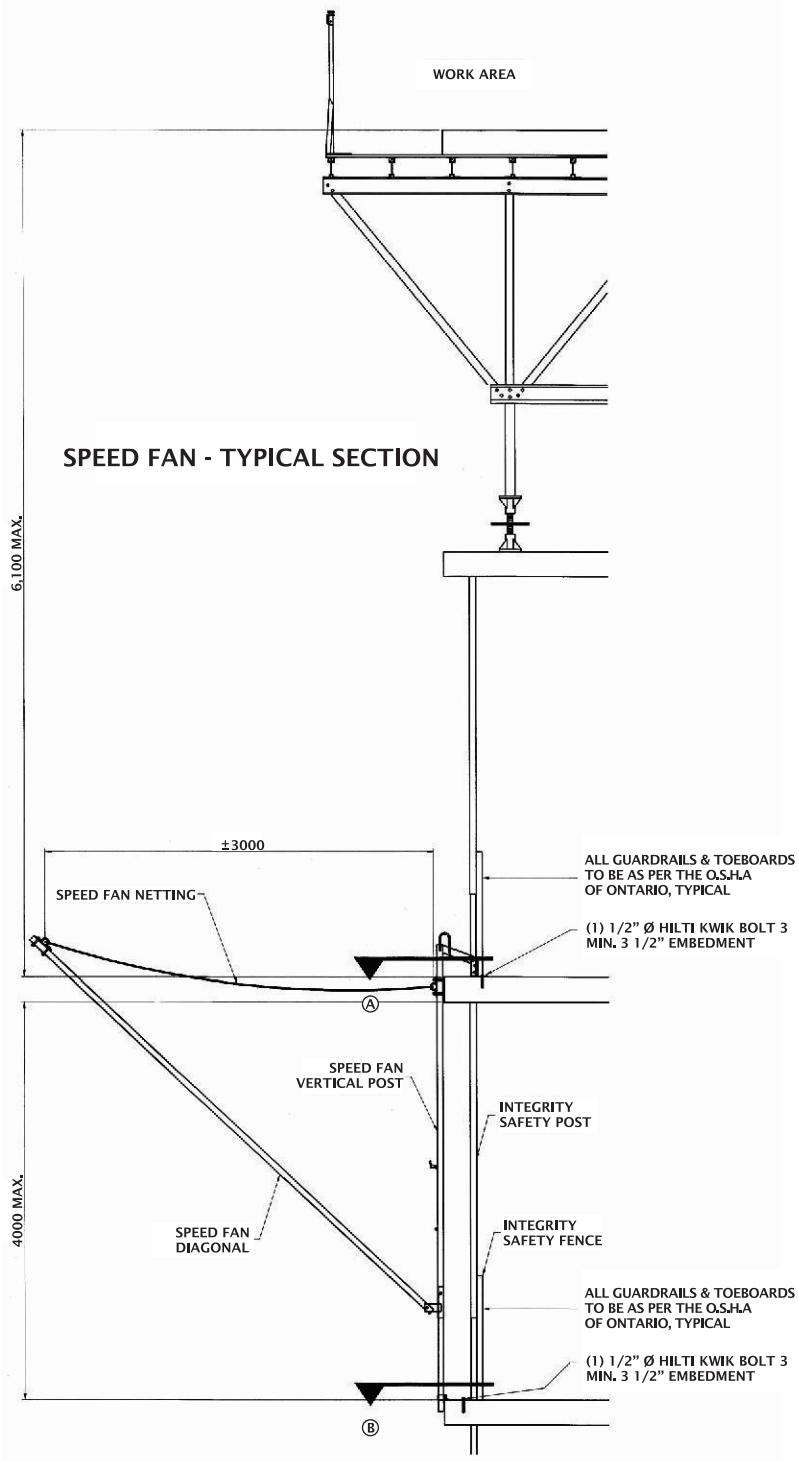
Net overlap must be no less than 750mm at narrowest point of net overlaps



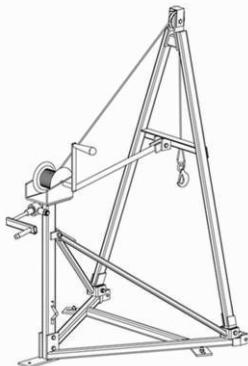
### SECTION A-A



### SECTION B-B



## 2. DESCRIPTION (CODES)



LIFTING DEVICE (LD280)

SPEED FAN (SF63) [19'8"/6000mm]  
or (SF43) [13'1"/4000mm]

SPREADER (S280)



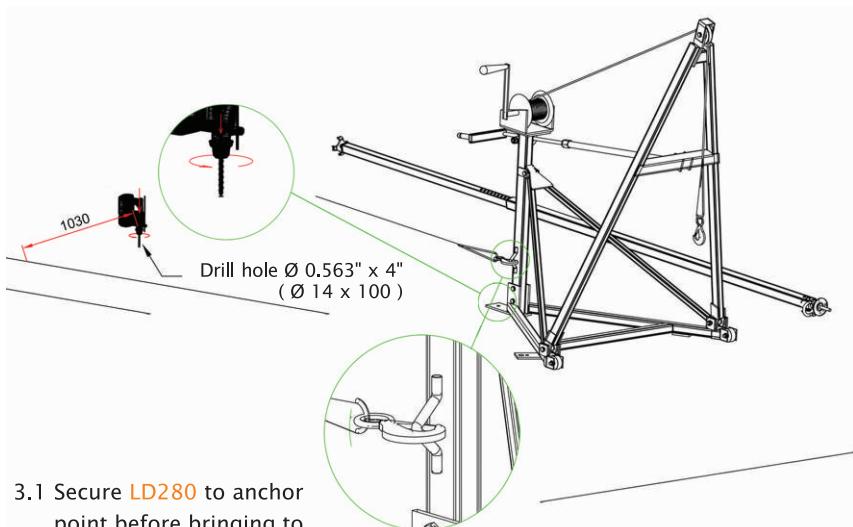
KWIK POST (KP5000)

WORM GEAR HAND/DRILL DRIVEABLE  
WINCH 4WM2 (Optional)

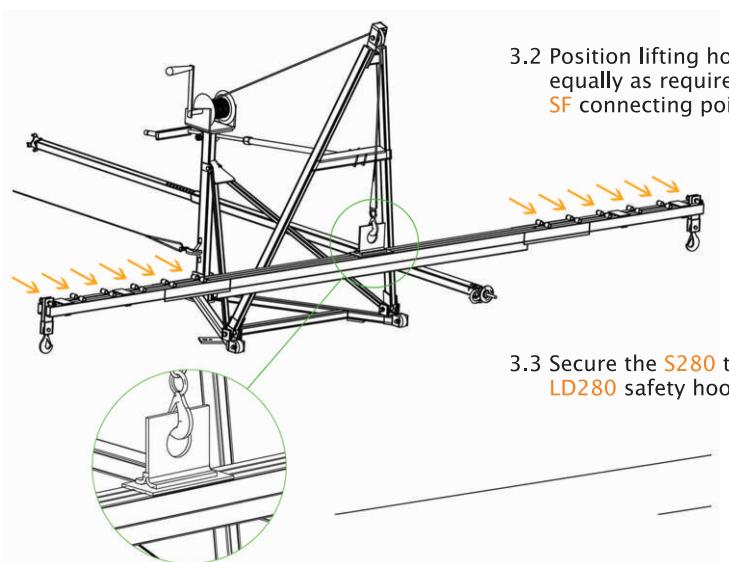
## Worm Gear Hand Winches – Configurations and Performance Characteristics

model number	description	load rating (lb)			wire rope	drum capacity (ft) <sup>1</sup>			force <sup>2</sup> gear ratio	approx. 1000 lb wt. (lb)
		1st layer	mid drum	full drum		1st layer	mid drum	full drum		
4WM2	2000 lb – enclosed gearing with brake (for lifting) Drill Driveable	2000	1500	1200	1/4 3/16 (not recommended for this winch)	11	35	77	32:1	14 lb 41

## 3. LD280 INSTALLATION



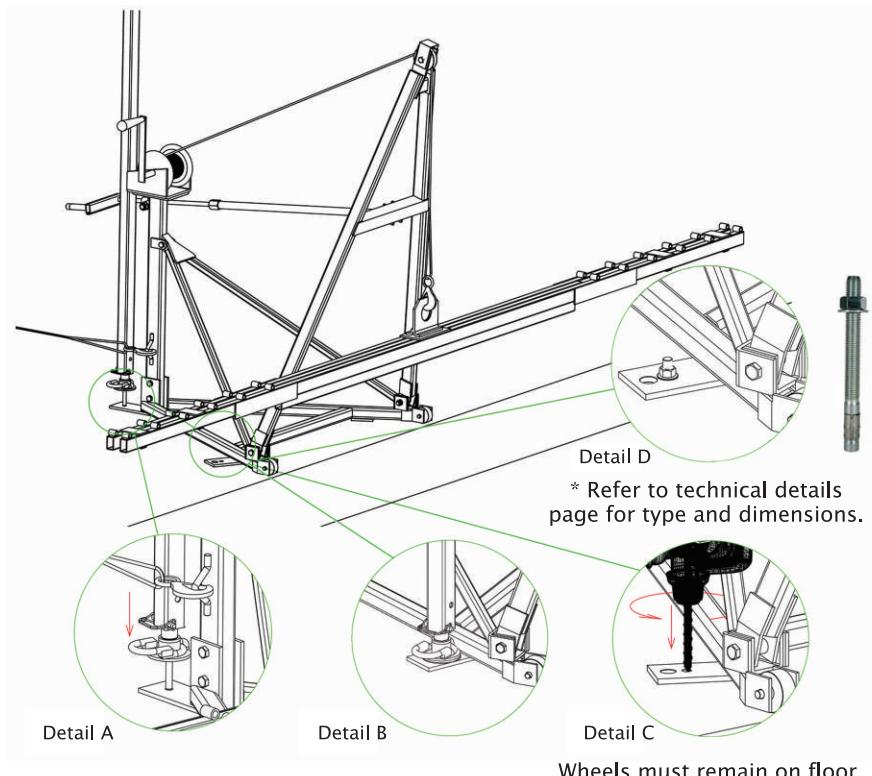
3.1 Secure LD280 to anchor point before bringing to building edge.



3.2 Position lifting hooks equally as required for SF connecting points.

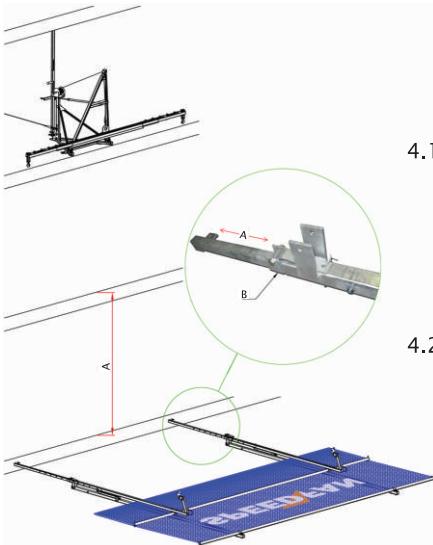
3.3 Secure the S280 to the LD280 safety hook.

## LD280 INSTALLATION - Positioning LD280



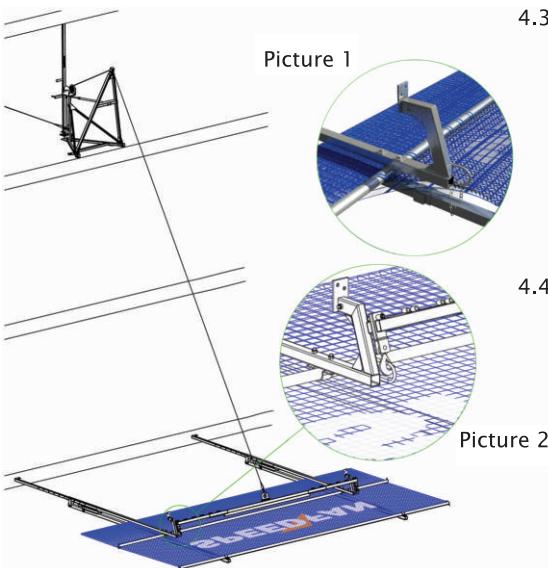
- 3.4 Move the **LD280** together with **S280** forward in position with previously drilled hole and secure it with **KP5000** post.
- 3.5 Ensure that **KP5000** post is fully tightened/compressed against the ceiling and inspect that visual red gauge is not seen (Detail A).  
(For more details see Speed Edge Post installation manual)
- 3.6 Drill holes Ø 0.5" x 4" (Ø 12 x 100) on both sides of **LD280** (Detail C) and secure with concrete anchors Ø12 or use **KP5000** post. as shown in Detail B.  
(This additional securing is optional subject to competent persons discretion)

## 4. SF ADJUSTMENT FOR FLOOR HEIGHT AND CONNECTING S280 FOR SF



4.1 Extend inner tube to required floor height, reinsert and secure bolt (A).

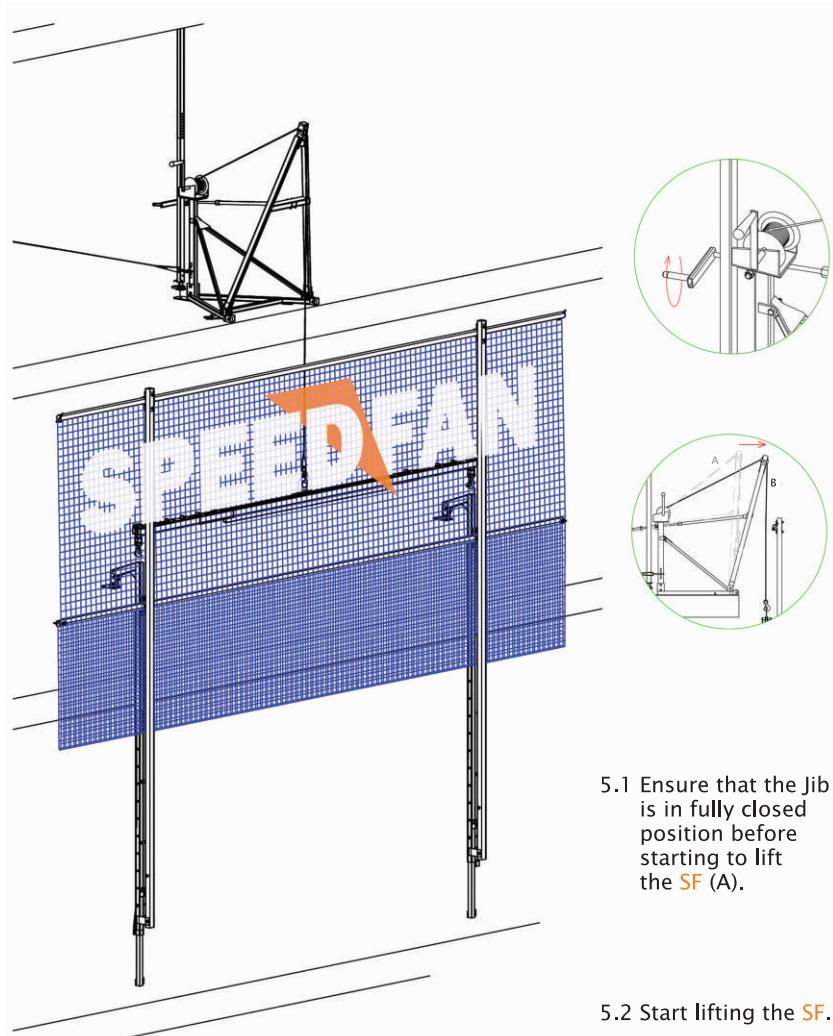
4.2 Fine adjust slab thickness variation by sliding bottom foot to required position (B).



4.3 Prior to connecting SF check that the secure chain is locked as shown in picture 1 to prevent the opening of SF.

4.4 Hook and secure S280 FAN's steel hooks as shown in picture 2.

## 5. LIFTING SF

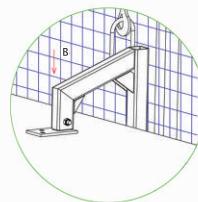
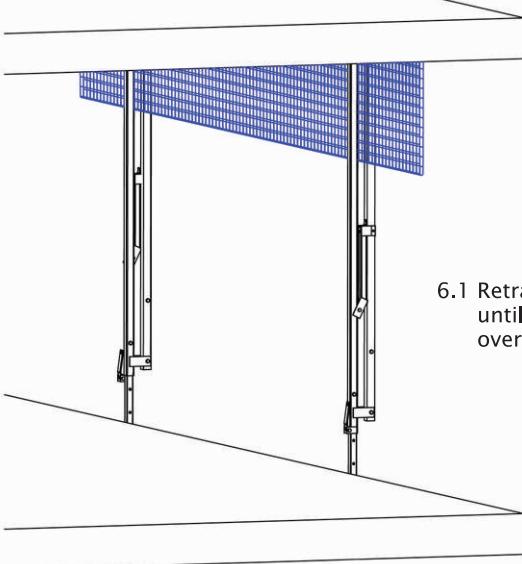
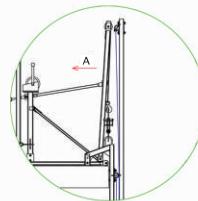
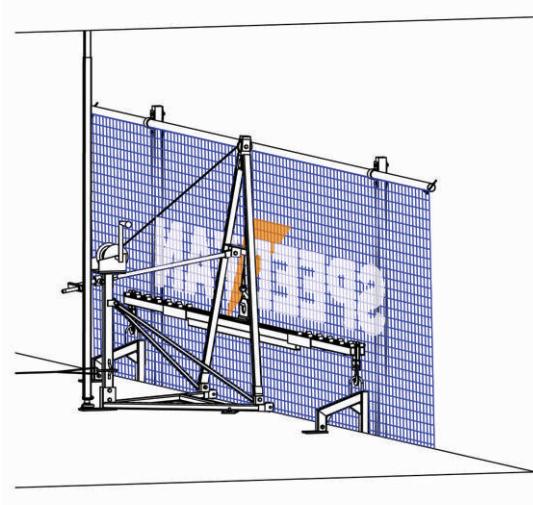


5.1 Ensure that the Jib is in fully closed position before starting to lift the **SF** (A).

5.2 Start lifting the **SF**.

5.3 Once the **SF** is in its upright position and steady, open Jib outwards (away from yourself) as necessary so that the feet have sufficient clearance from the slabedge (B).

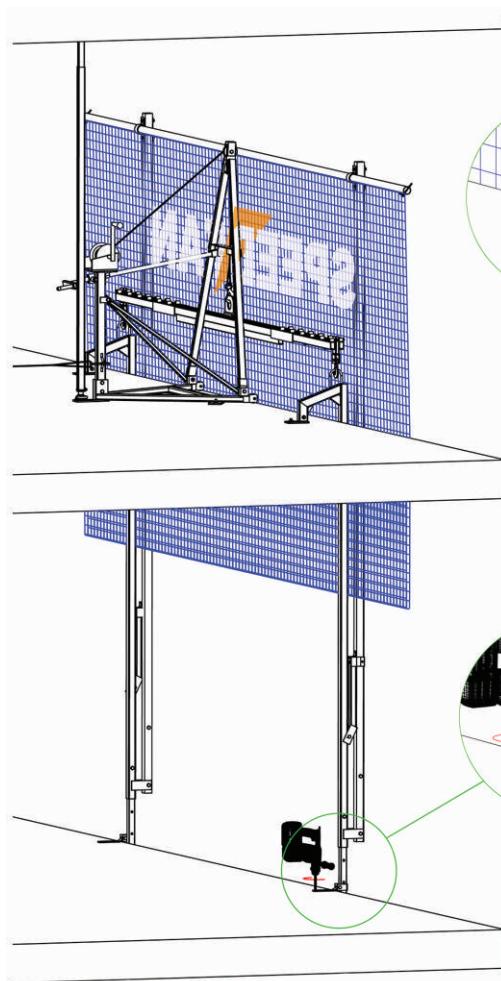
## 6. POSITIONING SF



6.1 Retract the Jib towards yourself until the feet are positioned over the floor (A).

6.2 Lower the Jib until **SF** top feet are resting on floor (B).

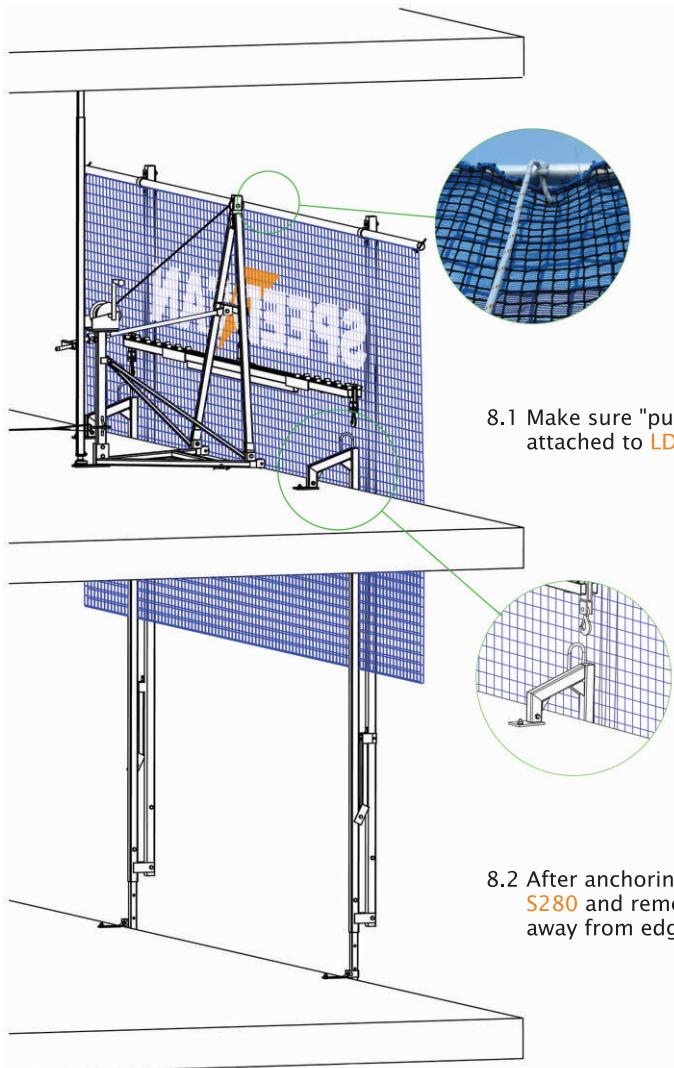
## 7. ANCHORING SF



7.1 Drill and secure top foot with Hilti  $\varnothing\frac{1}{2}$ " Kwik Bolt 3 or equivalent, with minimum  $3\frac{1}{2}$ " embedment.

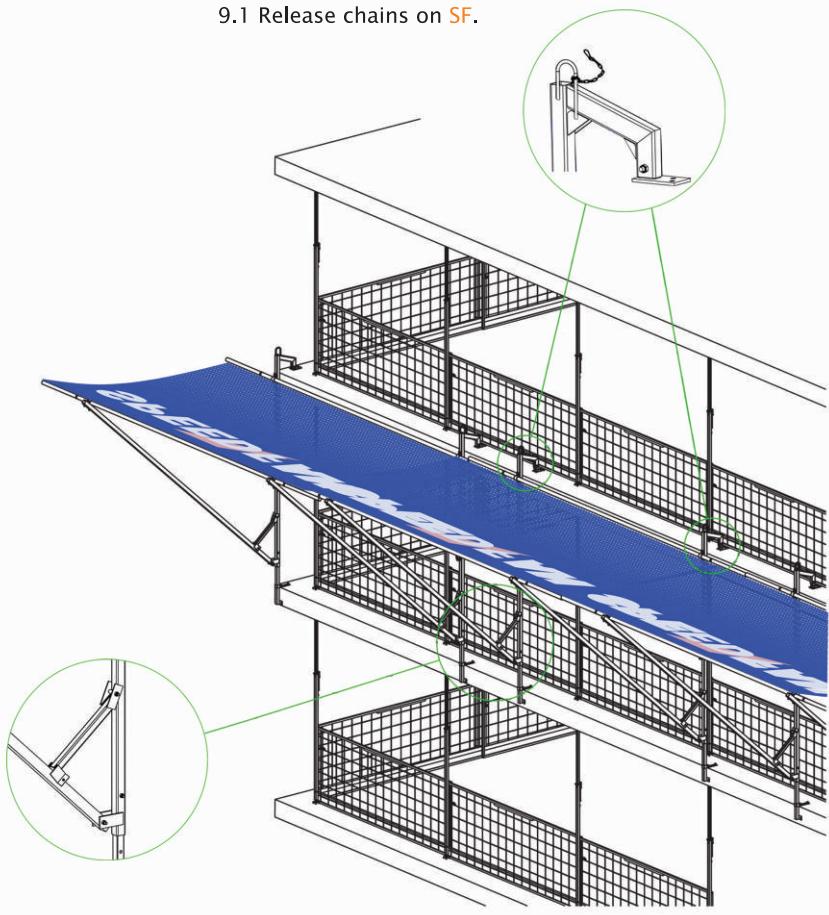
7.2 Drill and secure bottom foot with Hilti  $\varnothing\frac{1}{2}$ " Kwik Bolt 3 or equivalent, with minimum  $3\frac{1}{2}$ " embedment.

## 8. RELEASING SF



9. OPENING SF AND WORKING SAFELY BEHIND EDGE PROTECTION

9.1 Release chains on SF.



9.2 Check that the windlocks have dropped and secured into position.

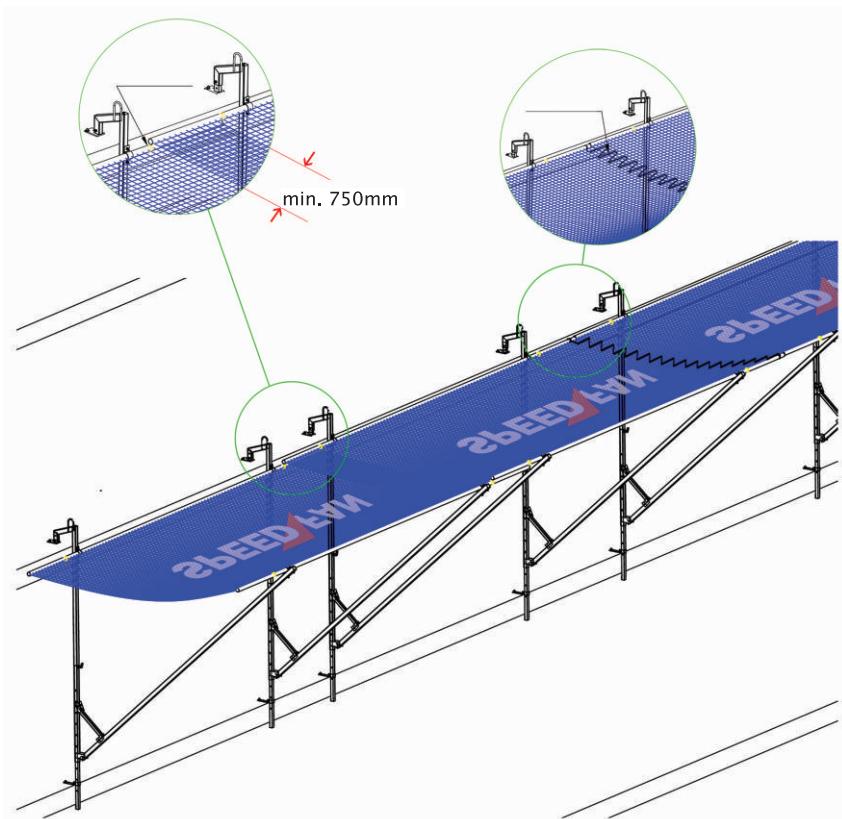
## 10. SF OVERLAP

### 10.1 Preferred Option

Net overlap must be no less than 750mm at narrowest point of net overlaps.

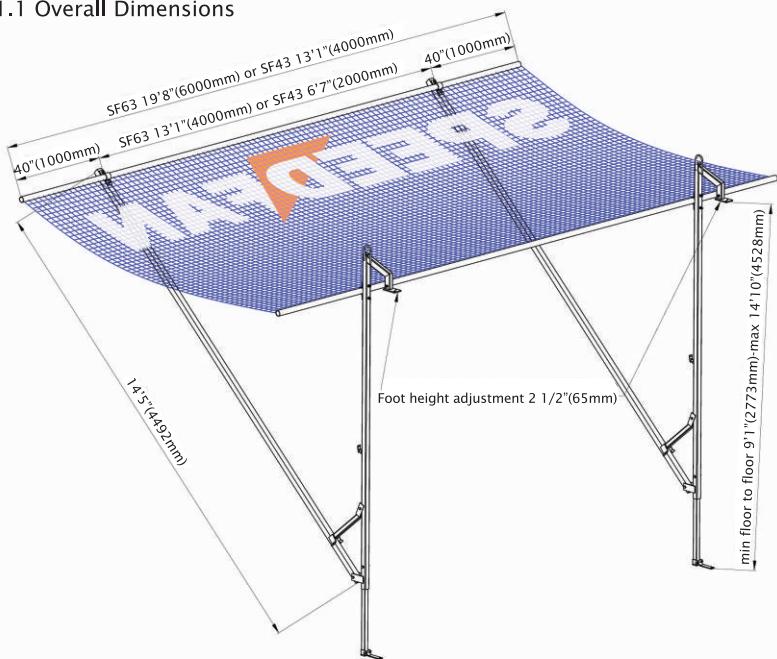
### 10.2 Preferred Option

Single nets can be joined by lacing using coupling ropes with minimum tensile breaking strength of 7.5 kN (1686 lbf). Coupling rope shall be laced through each mesh and secured at each end, ensuring that gaps greater than 100 mm do not develop between the edges of the nets.

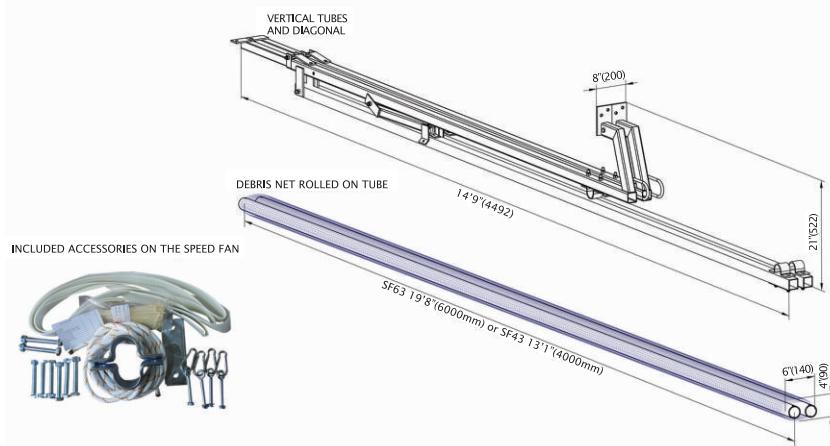


## 11. SF OVERALL PACKAGING DIMENSIONS

### 11.1 Overall Dimensions



### 11.2 Overall Packaging Dimensions for one Speed Fan set





## INSTALLATION MANUAL



**HEAD OFFICE** 3310 Mainway, Burlington,  
Ontario L7M 1A7, Canada  
**TELEPHONE** + 1 905 631 8433  
**FAX** + 1 905 631 3150  
**EMAIL** [info@iwwinc.ca](mailto:info@iwwinc.ca)