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Fastener Hole Locations

Fia.5 **Duplex Nails**

6 Duplex nails are required in each anchor leg. Use only the small diameter holes. Do not use nails for HLL.



for nails.

Fig.6

WS Wood Screws Required for HLLS

3 WS screws are required in each anchor leg. Use the large diameter center holes.



Horizontal Lifeline System (HLLS)

HLLS anchors must be installed over the ridge using 3-1/2" WS screws and placed at a minimum of 6ft from the gable end or an opening in the roof. Maximum spacing between anchors is 20ft. HLL must be rigged for a 30° angle as shown at Fig.8. Calculate the desired distance between top chords and use SAS No.1335 HLL shown in Table 2. Multiple leg HLL's can be rigged with an intermediate anchor as shown at Figs. 9,10. Do not work both sides of a roof surface from single or multiple leg HLL system at the same time. To work both sides of a roof surface at the same time, a second HLL system must be Installed. See Table 3 for maximum number of workers per HLL leg.

Single Anchor Location/ Spacing

SUPER ANCHOR SAFET

Space anchors approx. 8ft apart and 6ft from any gable edge, or based on the rafter length and a 30° angle service zone. Job specific service zones may be designed by a qualified or competent person (See OSHA definition).

Fall Arrest Service Zone

When exposed to a free fall a worker must not travel to the left or right of vertical center outside the 30° service zone The connector ring must be positioned as shown at Fig.7.

Fall Restraint

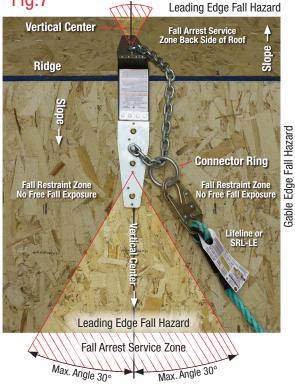
Areas outside the fall arrest service zone are designated fall restraint and do not allow workers to be exposed to a free fall.

Fig.7

Edge Fall Hazard

Gable

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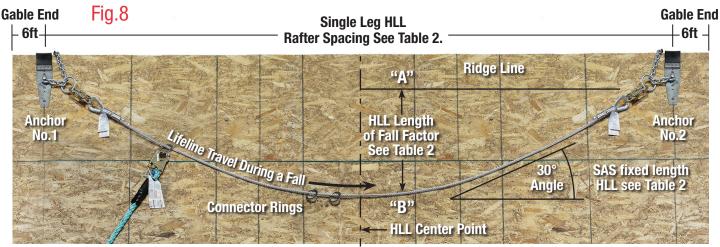


Table 2: 30° Fixed Length HLL

Fig.9

HLL No.	Rafter Spacing	30° Length	Fall Factor
1335-10	10ft	11-6"	34.0"
1335-12	12ft	13-6"	41.0"
1335-14	14ft	16-0"	48.0"
1335-16	16ft	18-4"	55.0"
1335-18	18ft	20-6"	62.0"
1335-20	20ft	23-0"	69.0"

End Anchor

Table 3: No. of Workers for each HLL Leg

Rigging Type	No. Anchors	Person per 1 Leg	Additional Leg	See Fig.
Fall	2	2		8
Arrest	3 or more	1	1	9
Fall	2	3		8
Restraint	3 or more	2	2	10

Note: When additional legs are added using a center anchor, the strength capacity for each leg is reduced.

End

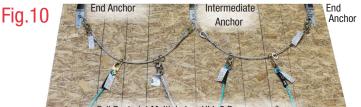
Ancho



Rigging System	Single Leg	Fig.	Multiple Leg	Fig.
Fall Arrest	1 Person	0	1 per/Leg	9
Fall Restraint	3 Persons	0	2 per/Leg	10

WARNING! HLL Free Fall Factor

When a fall occurs, the lifeline will travel to the HLL center point. The length between point "A" and "B" shown at Fig.8 and Table 3 must be included in the total length of a free fall to avoid striking the ground or a lower level.



Fall Restraint Multiple Leg HLL 2 Persons per/Leg

Intermediate

Anchor

Fall Arrest Multiple Leg HLL 1 Person per/Leg