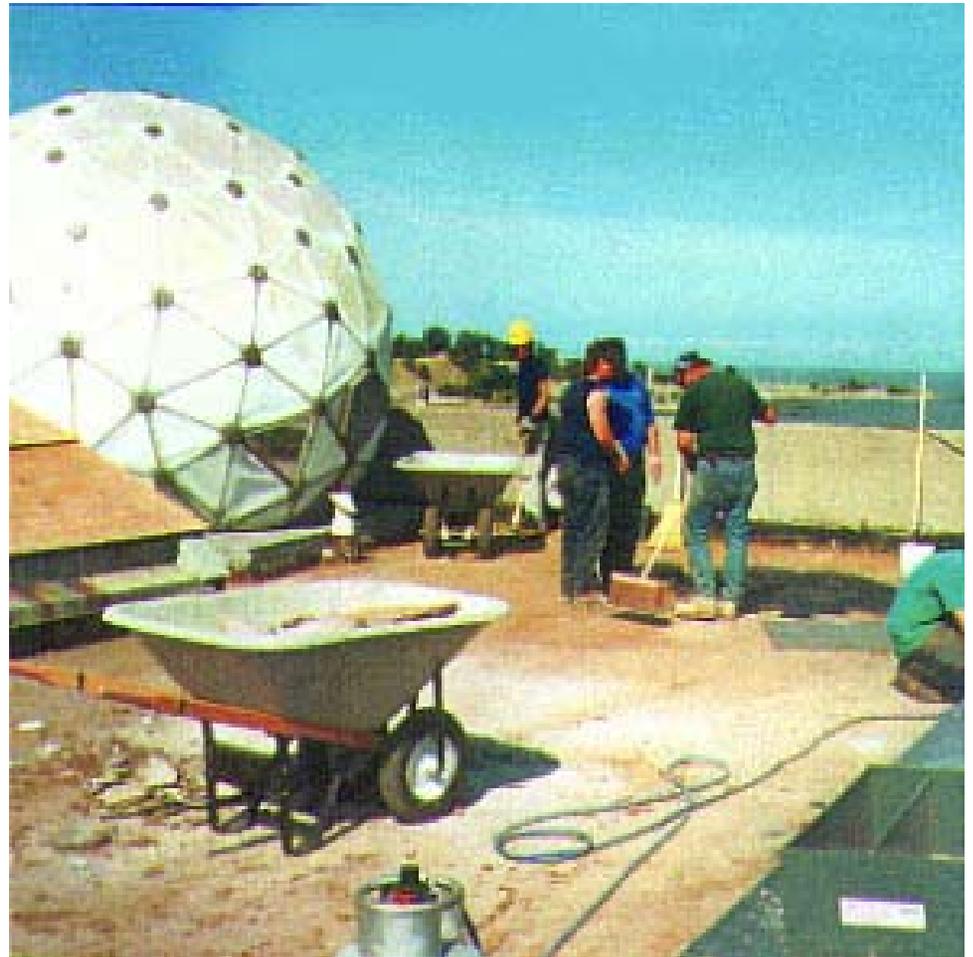


ROOFING FALL PROTECTION

- **LOW SLOPED ROOF**
- **STEEP SLOPED ROOF**
- **LEADING EDGE WORK**



TYPE OF FALL PROTECTION

TYPE OF	MEANS ALLOWED FOR PROVIDING FALL PROTECTION								
	Conventional Fall Protection								
WORK	Guardrails	Safety Net	PFAS	Covers	Position Device	Fence or Barricade	Fall Protection Plan**	Warning Line**	Control Access**
Unprotected Sides/Edges	XXX	XXX	XXX			XXX			
Leading Edge Work	XXX	XXX	XXX				XXX**	XXX**	
Hoist Area	XXX								
Holes and Openings	XXX			XXX		XXX			
Formwork & Reinforcing		XXX	XXX		XXX				
Ramps/Runways & Walkways++	XXX								
Excavations Pits, Shafts, Wells	XXX			XXX		XXX			
Dangerous Equipment On or Above	XXX	XXX							
Overhead Bricklayin	XXX	XXX							XXX
Low Slope Roof	XXX	XXX	XXX					XXX**	XXX**
Steep Roof	XXX	XXX	XXX						
PreCast Erection	XXX	XXX	XXX				XXX**		
Steel Erection	XXX	XXX	XXX						
Residential Construction	XXX	XXX	XXX				XXX**		
Wall Openings	XXX	XXX				XXX			

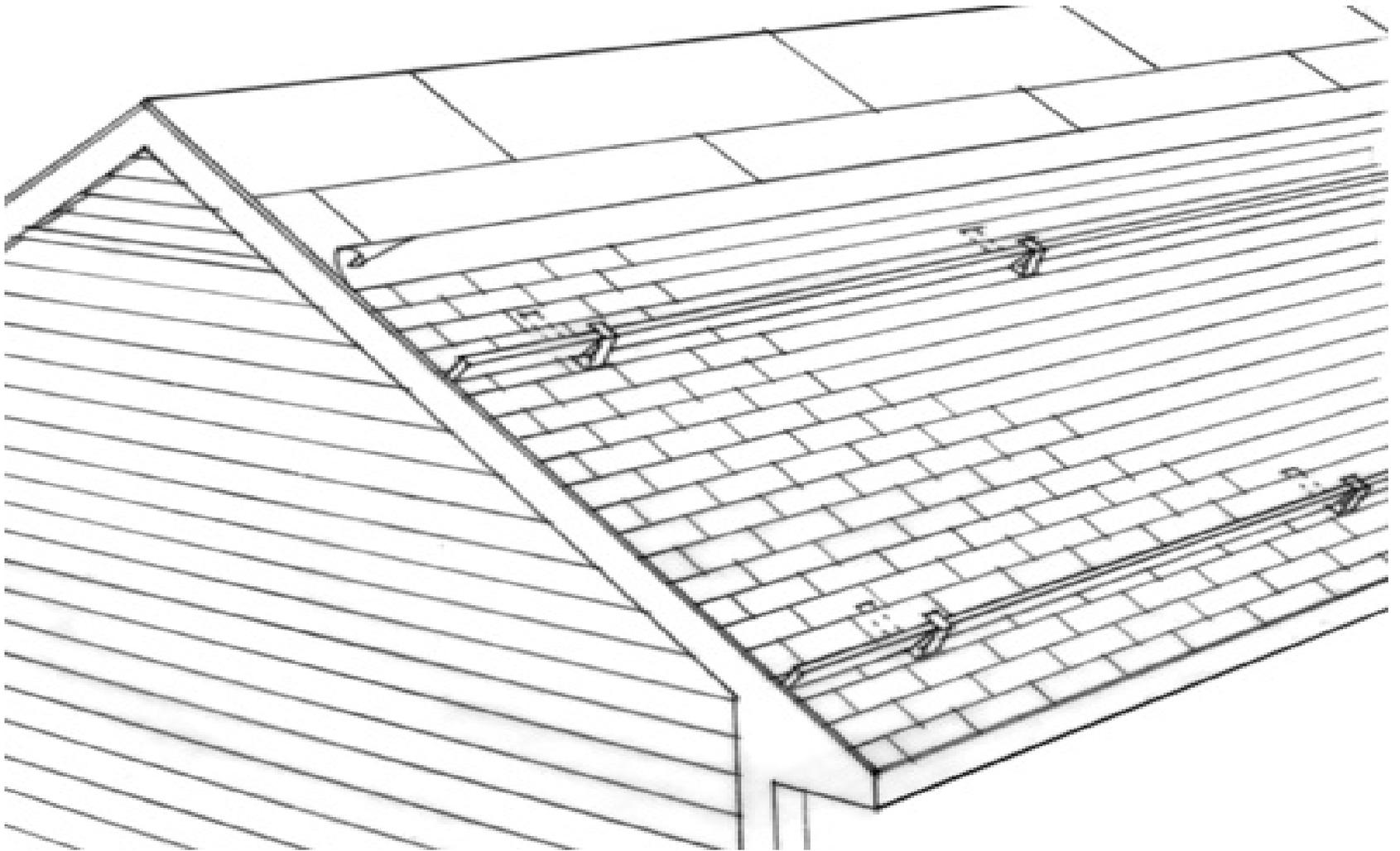
ROOFING FALL PROTECTION DEFINITIONS

- **LOW SLOPE ROOF**
- **PITCH ROOF**
- **LEADING EDGE**
- **WARNING LINE**





LOW SLOPED ROOF: ANY ROOF IN WHICH THE PITCH EQUAL TO OR LESS THAN 4 INCHES VERTICAL TO 12 INCHES HORIZONTAL



PITCHED ROOF ANY ROOF WITH A PITCH GREATER THAN 4 INCHES VERTICAL IN 12 INCHES HORIZONTAL

LEADING EDGE

The edge of a floor, roof, or formwork for a floor or other walking/working surface such as a deck which changes locations as additional floor, roof, decking, or formwork sections are placed, formed, or constructed. A leading edge is considered to be an “unprotected edge or side” when it is not actively and continuously under construction.

LEADING EDGE EXAMPLE

**Formwork
laid down to
form deck
for this cast-in-
place concrete
roof on this
building.**



LEADING EDGE EXAMPLE

**Steel Sheets
on
this Flat
Roof
Structure**



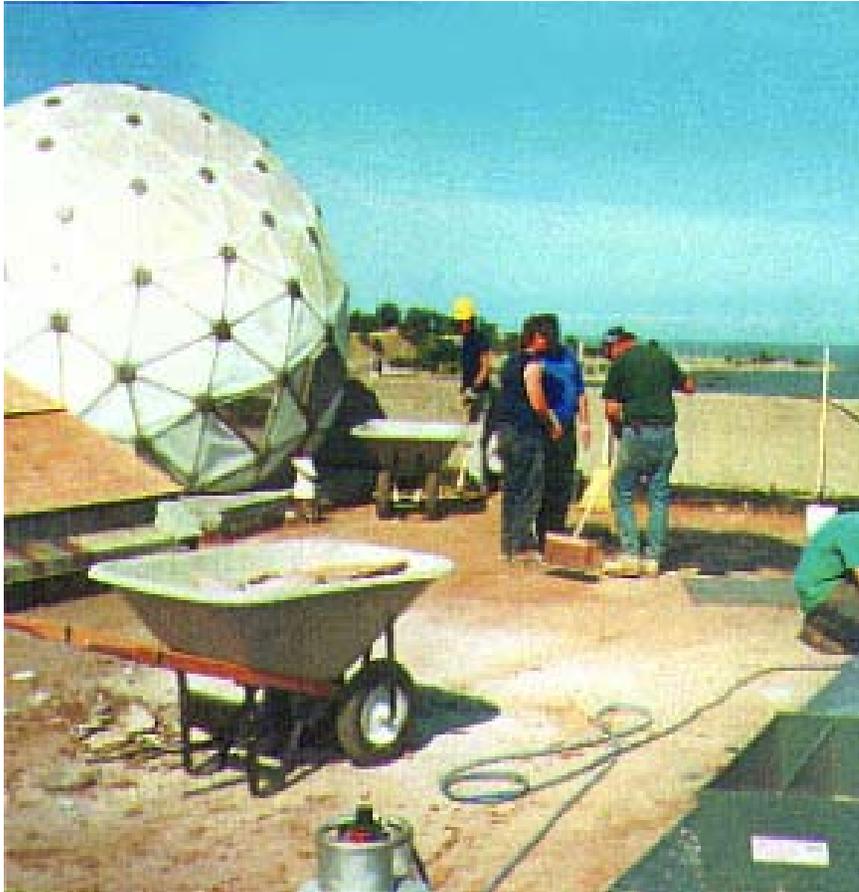
WARNING LINE DEFINITION

A BARRIER ERECTED ON A ROOF TO WARN EMPLOYEES THAT THEY ARE APPROACHING AN UNPROTECTED ROOF SIDE OR EDGE



What is wrong with this picture????

Low Slope Roofing Requirements



- Warning Lines 6' Edge
- Hard Rail Placed at points where personnel or material come & go from roof
- Entrance/Exit Guarded
- Outside warning line contractor to provide conventional fall protection system

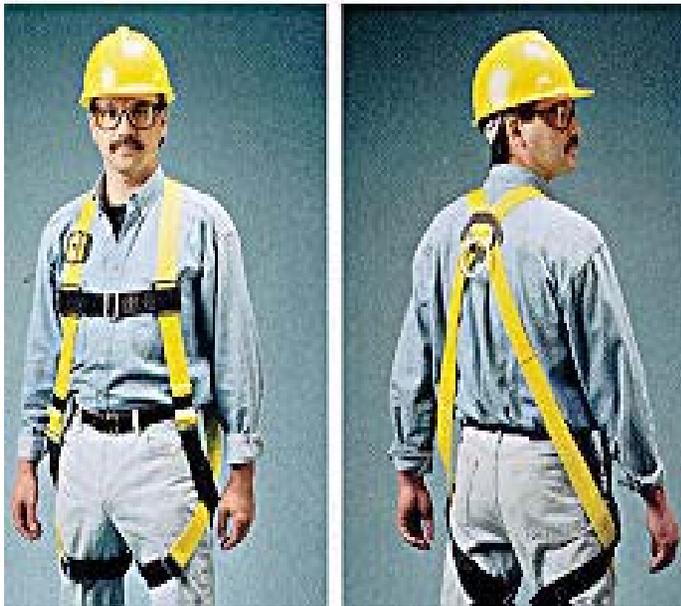
PITCHED ROOFING REQUIREMENTS



- Roof that are greater than 4” in 12” Rise
- Conventional Fall Protection System
- **NO SLIDE GUARDS**

FALL PROTECTION DEVICES

MODEL #650



**SAFETY
HARNESS**



**GUARDRAIL
SYSTEM**

FALL PROTECTION DEVICES



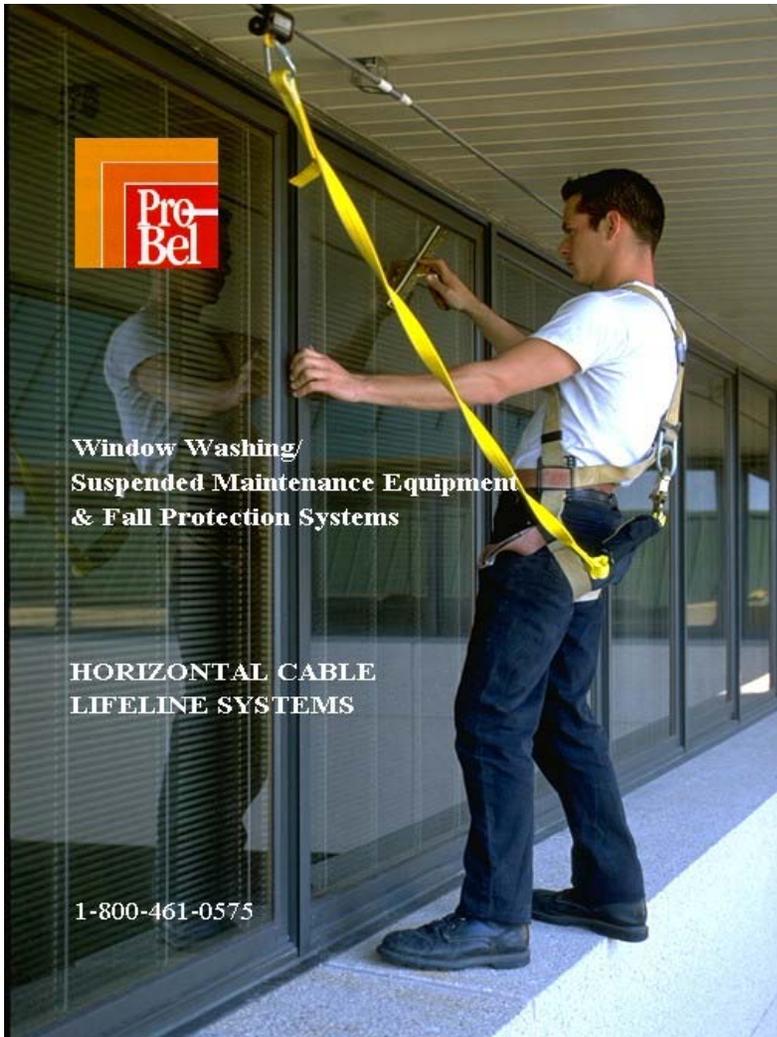
SAFETY NETS

FALL PROTECTION SAFETY DEVICES



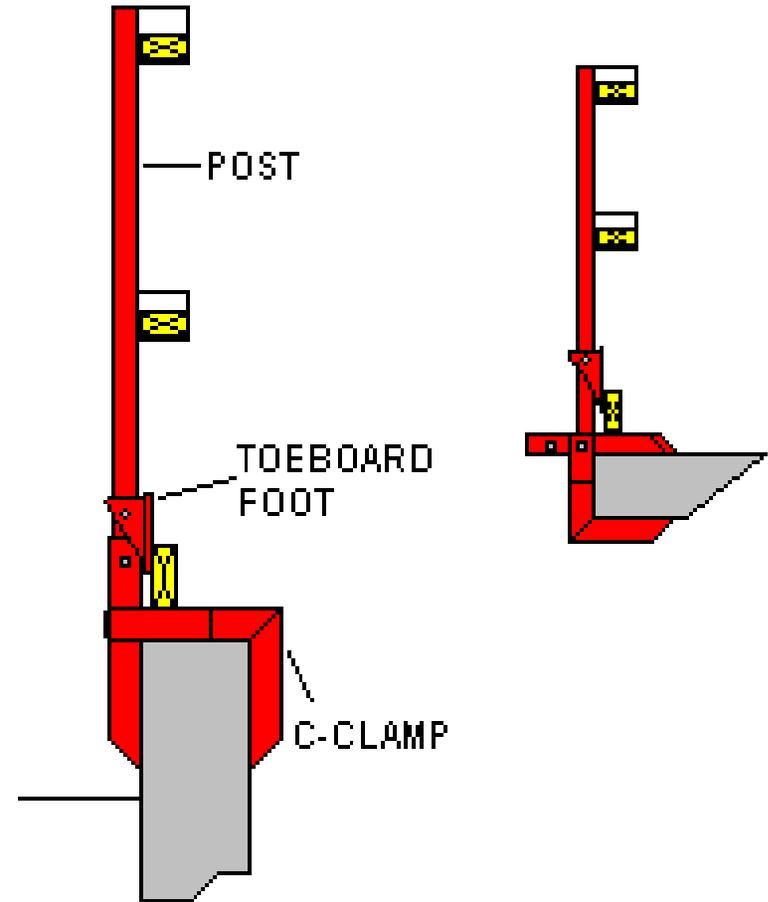
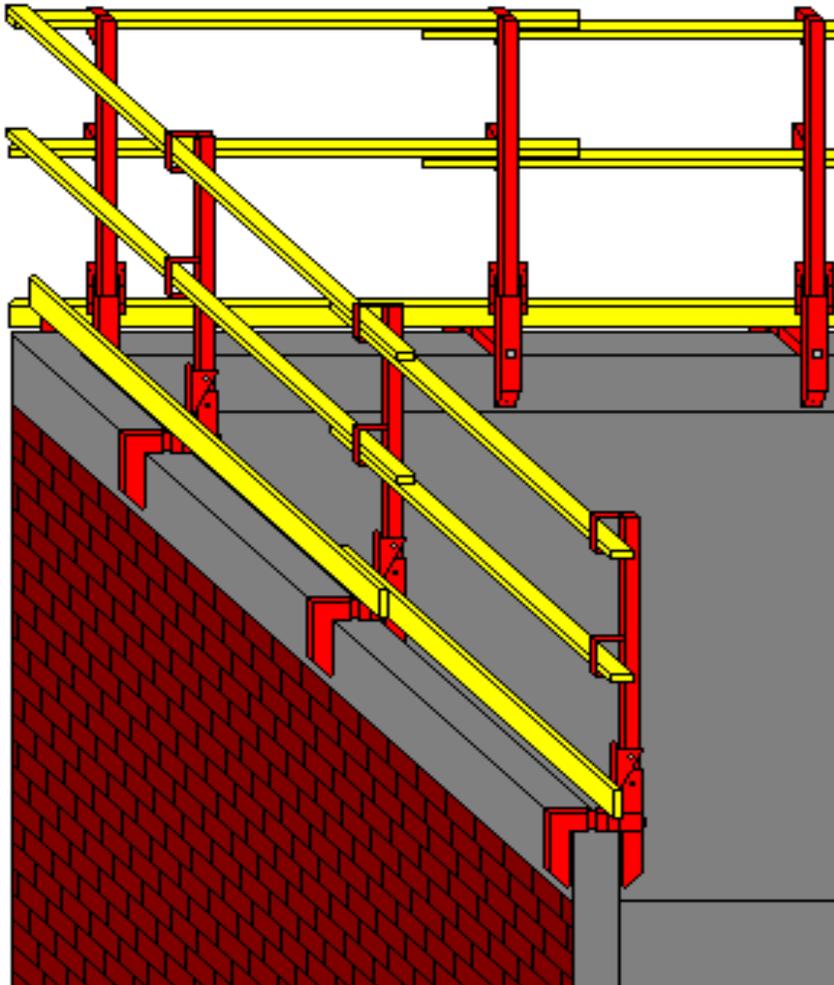
LANYARD W/DECELERATION DEVICE

FALL PROTECTION DEVICES



HORIZONTAL LIFE LINES

FALL PROTECTION DEVICES



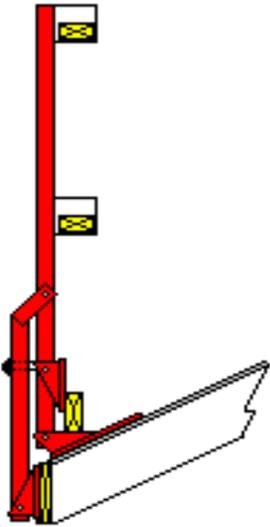
RAILING FLAT ROOFING OR PARAPET

PITCH ROOF FALL PROTECTION DEVICES

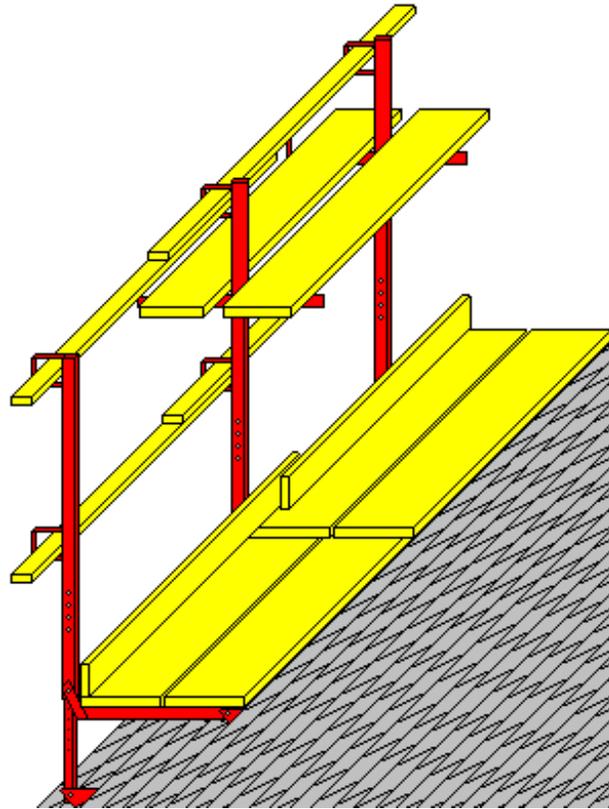


ROOFING GUARD RAIL SYSTEM

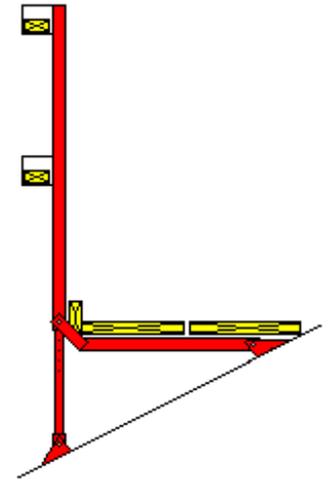
PITCH ROOF FALL PROTECTION DEVICES



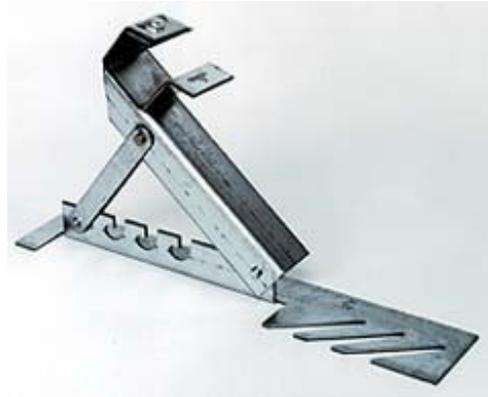
FACIA RAIL



PLATFORM RAIL



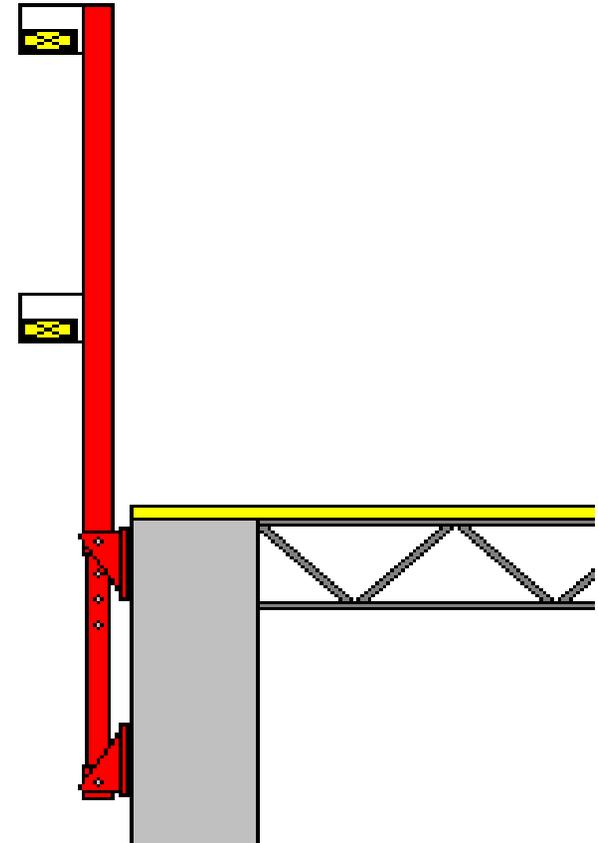
FALL PROTECTION DEVICES



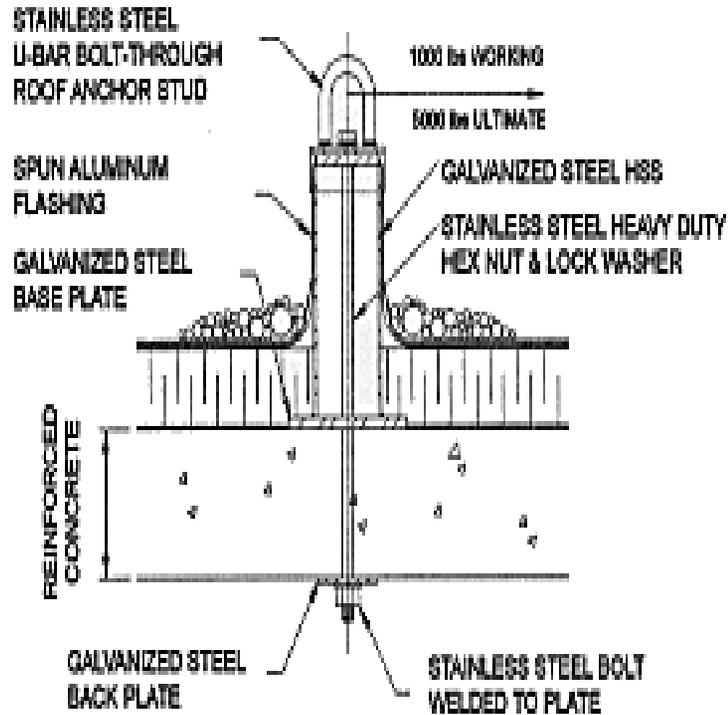
ROOFING BRACKETS

**SLIDE GUARDS ARE NOT APPROVED
FALL PROTECTION DEVICE!!!**

FALL PROTECTION DEVICES

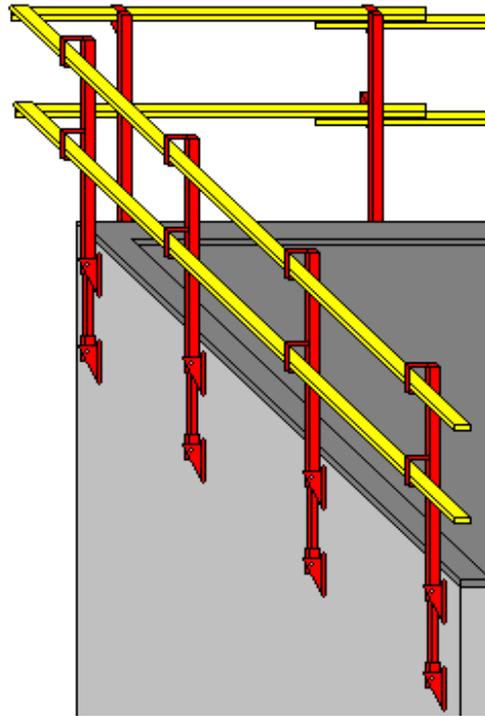


FALL PROTECTION DEVICES



BUILT-IN ROOF ANCHORS

FALL PROTECTION DEVICES



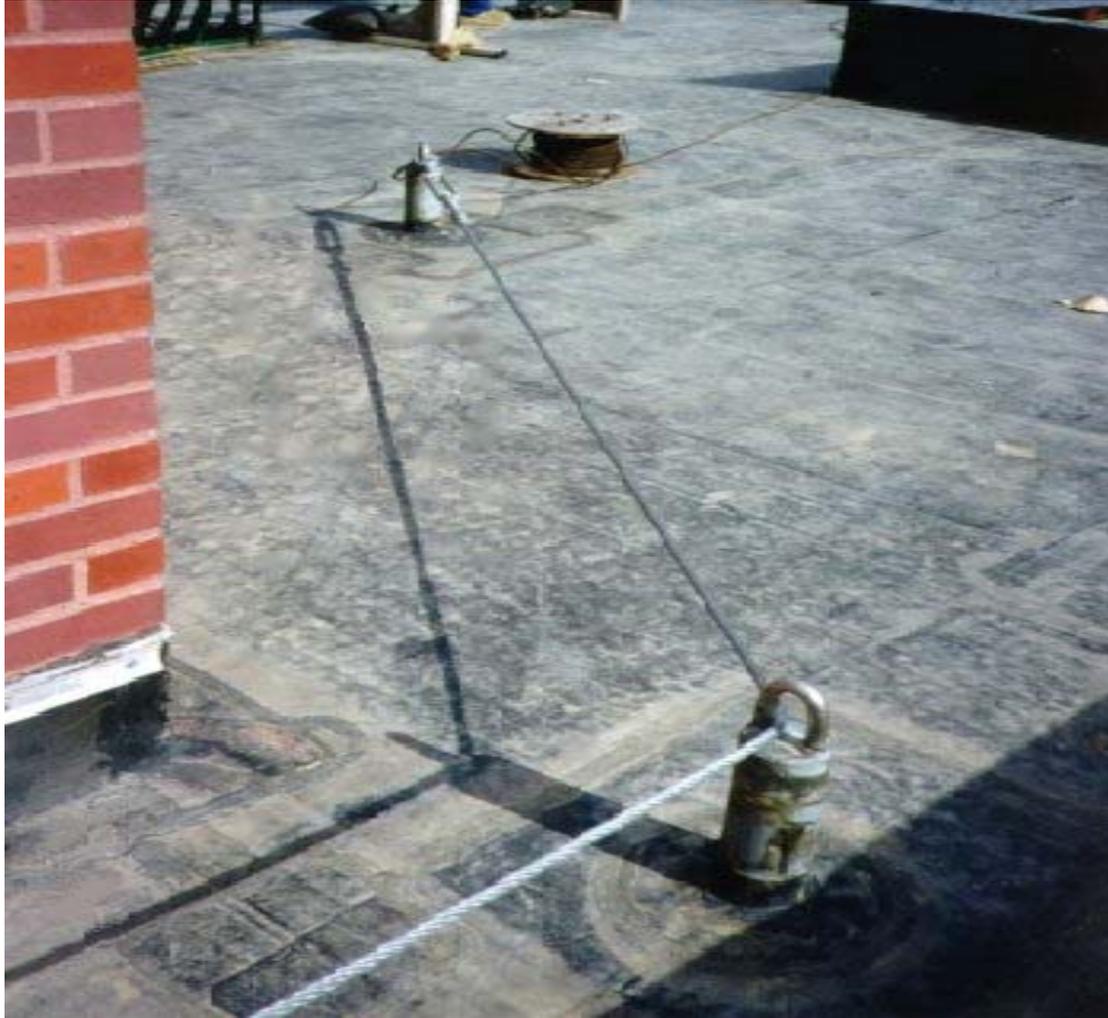
WALL MOUNTED SAFETY RAILING

FALL PROTECTION DEVICES



**SELF RETRACTING
LANYARD WITH
DOUBLE LOCKING
HOOK AND
CARABEENER**

FALL PROTECTION DEVICES



HORIZONTAL LIFE LINE

FALL PROTECTION DEVICES



ROOF BRACKET



**ROPE GRAB ON A
LANYARD WITH
DECELERATION
DEVICE**

PERSONAL FALL ARREST SYSTEM (PFAS)

1. SAFETY HARNESS
2. LANYARD (2) WITH DECELERATION DEVICE
3. ATTACHMENT POINT
4. **ALL HARNESS & LANYARDS TO BE MADE OF SYNTHETIC MATERIALS**



FALL PROTECTION QUESTIONS??

1. A personal fall arrest system, in addition to the attachment point & lanyard requires the use of what item?
2. The body belt is permitted to be used only for what?

FALL PROTECTION ANSWERS

1. A **Body Harness** is required as part of a Personal Fall Arrest system (PFAS) 05.F.01a
2. Body belts are only allowed to be used as a **positioning device**. 05.F.01b

Fall Protection Questions??

1. Of what **type of material** are ropes, straps, webbing, and lanyards to be made?
2. With the exception of locations over water, on runways, over machinery or dangerous operations, at what height is the employer required to provide fall protection?

FALL PROTECTION ANSWERS

1. All ropes and straps (webbing) used in lanyards, lifelines, and strength components of body belts and and body harnesses shall be made of **synthetic fibers**. 05.F.03d
2. On accessways or work platforms from which workers may fall **6' or more** fall all protection is required.



FINAL QUESTION: A ROOSTER IS PERCHED EXACTLY OVER THE PEAK OF THE ROOF OF THIS HOUSE AND IS NOT USING ANY TYPE OF FALL PROTECTION, HOWEVER, IT DOES MANAGE TO LAY ONE EGG... WHICH WAY DOES THE EGG ROLL???

FINAL ANSWER



- **ROOSTERS**
- **DO NOT LAY**
- **EGGS!!!**