

Design Method
LSD CAN

Design Standard
AISI S310-20

AREAS
Area 1

Area Name
Area 1

DECK PROPERTIES **i**
Deck Type
 Steel roof deck
 Concrete filled deck
 Deck Panel
 1-1/2" B-Deck - Fy = 40 ksi - Wi...
 Panel Type
Interlocking
 Panel Width
 914 mm

JOIST BEAM PROPERTIES
Support Construction
Beams

Joist Spacing
 Area
 Zone

Joist / Beam Thickness **i** Joist / Beam Spacing
 8 mm 2,000 mm

INTERLOCKING DECK

Deck Gauge	Pattern	Frame Fastener i	Sidelap Connection	Sidelap	N _{ext} i	Q i	W	G'
22 ga	36/4 (914/4)	Hilti X-HSN 24	S-SLC 01 M HWH Sidelap C...	300 mm	32.0882 mm	10.02 kN/m	4 kN/m ²	3.27 kN/mm
22 ga	36/4 (914/4)	Hilti X-ENP-19-L15	S-SLC 01 M HWH Sidelap C...	300 mm	32.8209 mm	6.34 kN/m	6 kN/m ²	3.31 kN/mm
22 ga	36/4 (914/4)	Hilti X-HSN 24	#12 Drill Screw	300 mm	31.7801 mm	6.09 kN/m	4 kN/m ²	3.27 kN/mm

HSN-24 SHOULD NOT BE THIS HIGH.
ALSO VALUE IS HIGHER THAN WHEN ENP-19 FASTENERS ARE SUBSTITUTED WHICH IS NOT EXPECTED.

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DECK PROPERTIES **i**
Deck Type
 Steel roof deck
 Concrete filled deck
 Deck Panel
 1-1/2" B-Deck - Fy = 40 ksi - Wi...
 Panel Type
Nestable
 Panel Width
 914 mm

JOIST BEAM PROPERTIES
Support Construction
Beams

Joist Spacing
 Area
 Zone

Joist / Beam Thickness **i** Joist / Beam Spacing
 8 mm 2,000 mm

NESTABLE DECK

Deck Gauge	Pattern	Frame Fastener i	Sidelap Connection	Sidelap	N _{ext} i	Q i	W	G'
22 ga	36/4 (914/4)	Hilti X-HSN 24	S-SLC 01 M HWH Sidelap C...	300 mm	32.9249 mm	8.81 kN/m	4 kN/m ²	3.27 kN/mm
22 ga	36/4 (914/4)	Hilti X-ENP-19-L15	S-SLC 01 M HWH Sidelap C...	300 mm	32.75 mm	10.03 kN/m	6 kN/m ²	3.31 kN/mm
22 ga	36/4 (914/4)	Hilti X-HSN 24	#12 Drill Screw	300 mm	31.7801 mm	6.09 kN/m	4 kN/m ²	3.27 kN/mm

THERE SHOULD NOT BE SUCH A HUGE DIFFERENCE WHEN ONLY INTERLOCKING VS NESTED DECK IS CHANGED??

NOW HSN-24 IS LESS THAN ENP-19