Interior Wall Limiting Heights - Non-Composite

20 Gauge EQ Stud Allowable Span Table - Fully Braced										
DESCRIPTION					5 PSF		7.5 PSF		10 PSF	
Member Designation	Minimum Steel Thickness (inch)	Design Steel Thickness (inch)	Min. Yield Stress (ksi)	Spacing O.C. (in.)	LI240	LI360	LI240	LI360	LI240	LI360
162PS137-19	0.018	0.0189	41	12	8'-0"	6'-11 "	6'-11 "	6'-1"	6'-4"	5'-6"
				16	*1'-3"*	6'-4"	6'-4"	5'-6"	5'-9"	5'-0"
				24	6'-4"	5'-6"	5'-6"	4'-10"	5'-0"	4'-4"
250PS137-19	0.018	0.0189	41	12	11 '-1"	9'-8"	9'-8"	8'-5"	8'-9"	*1'-8"*
				16	10'-0"	8'-9"	8'-9"	*1'-8"*	*1'-11 "*	6'-11 "
				24	8'-9"	*1'-8"*	*1'-8"*	6'-8"	6'-11 "	6'-1 "
362PS137-19	0.018	0.0189	41	12	14'-8"	12'-9"	12'-9"	11 '-2"	11'-7"	10'-2"
				16	13'-3"	11 '-7"	11'-7"	10'-2"	10'-6"	9'-2"
				24	11'-7"	10'-2"	10'-2"	8'-10"	9'-2"	8'-0"
400PS137-19	0.018	0.0189	41	12	15'-9"	13'-9"	13'-9"	12'-0"	12'-6"	10'-11"
				16	14'-4"	12'-6"	12'-6"	10'-11"	11 '-4"	9'-11 "
				24	12'-6"	10'-11"	10'-11"	9'-6"	9'-11"	8'-8"
600PS137-19	0.018	0.0189	41	12	21'-7"	18'-10"	18'-10"	16'-5"	*11'-1 "*	14'-11"
				16	19'-7"	*11'-1"*	*11'-1 "*	14'-11"	15'-6"	13'-7"
				24	*11'-1 "*	14'-11"	14'-11"	13'-0"	13'-7"f	11'-10"

"f" - indicates the span is limited by flexure. "e" indicates web stiffener required at each end. If no letter appears, span is deflection governed.

Notes:

1. Limiting heights are in accordance with AISI S100-07 using all steel non-composite design.
2. Limiting heights are established by considering flexure, shear. web crippling, and deflection.
3. Studs are assumed to be sheathed full height each side. To determine allowable span with bracing at 48" *o/e.* use the stud properties chart and compare the actual moment to the Ma Braced @ 48" *o/c.*
4. Lateral wall loads have not been reduced for strength or deflection. The full wall lateral load is applied.
5. The factory punchouts are in accordance with section C5 of AISI S201-07.

*****ICC Pending*****