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FAX COVER SHEET

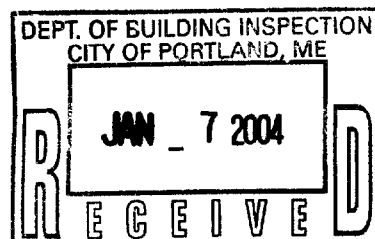
TO: Jeannie Bourke

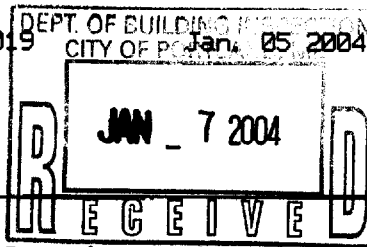
RE: Needelman Addition

OF PAGES TO FOLLOW:1

NOTE: Jeannie - isn't this professional? Here's a page from the GP literature - call me if you need more info - 650-7650.

-Dan





Engineered Lumber Residential Guide

Roof Joist Maximum Span Chart-115% (Snow)

Load (PSF)	Joist	Joist Depth	Slope of 4/12 or less			Slope of over 4/12 through 8/12			Slope of over 8/12 through 12/12		
			16' o.c.	18.2' o.c.	24' o.c.	16' o.c.	18.2' o.c.	24' o.c.	16' o.c.	18.2' o.c.	24' o.c.
Snow 115%	GPI 20	9 1/2"	19'-08"	18'-07"	17'-02"	18'-07"	17'-08"	18'-02"	17'-03"	18'-02"	19'-00"
		11 1/2"	23'-08"	22'-03"	19'-11"	22'-04"	21'-00"	19'-05"	20'-08"	19'-05"	18'-00"
	GPI 40	9 1/2"	21'-01"	18'-07"	17'-08"	19'-10"	18'-08"	17'-01"	18'-05"	17'-03"	18'-00"
		11 1/2"	24'-10"	22'-07"	20'-03"	23'-09"	22'-00"	19'-08"	22'-00"	20'-08"	18'-00"
	GPI 65	14"	27'-05"	25'-01"	22'-05"	26'-09"	24'-08"	21'-08"	25'-00"	23'-08"	21'-00"
		16"	27'-08"	26'-00"	24'-00"	28'-01"	24'-08"	22'-08"	24'-02"	22'-08"	21'-00"
Live 25 Dead 18	WI 40	9 1/2"	31'-08"	29'-07"	27'-05"	29'-08"	27'-11"	25'-10"	27'-06"	25'-10"	23'-11"
		11 1/2"	36'-00"	32'-11"	29'-10"	33'-00"	31'-00"	28'-08"	30'-07"	28'-08"	26'-07"
	WI 60	9 1/2"	20'-05"	18'-07"	18'-08"	19'-10"	18'-02"	18'-02"	18'-05"	17'-03"	15'-07"
		11 1/2"	23'-08"	21'-07"	19'-03"	23'-00"	21'-00"	18'-09"	22'-00"	20'-03"	18'-01"
	WI 80	14"	26'-02"	23'-11"	21'-04"	25'-06"	23'-03"	20'-10"	24'-07"	22'-06"	20'-01"
		16"	26'-10"	25'-02"	22'-08"	25'-03"	23'-09"	22'-00"	23'-05"	22'-00"	20'-04"
Snow 115%	GPI 20	9 1/2"	18'-00"	17'-10"	18'-03"	17'-11"	18'-10"	15'-07"	18'-08"	15'-08"	14'-08"
		11 1/2"	22'-10"	21'-00"	18'-09"	20'-03"	20'-08"	18'-04"	20'-00"	18'-08"	17'-05"
	GPI 40	9 1/2"	20'-03"	18'-08"	18'-08"	19'-01"	17'-11"	18'-01"	17'-08"	18'-08"	15'-05"
		11 1/2"	23'-05"	21'-04"	19'-01"	22'-10"	20'-10"	18'-07"	21'-03"	20'-00"	18'-00"
	GPI 65	14"	25'-11"	23'-07"	21'-01"	25'-03"	23'-01"	20'-07"	24'-02"	22'-04"	19'-11"
		16"	28'-07"	24'-11"	23'-01"	25'-01"	23'-07"	21'-10"	23'-04"	21'-11"	20'-03"
Live 30 Dead 15	WI 40	9 1/2"	30'-03"	28'-05"	26'-04"	28'-07"	28'-10"	24'-10"	28'-07"	24'-13"	23'-01"
		11 1/2"	33'-08"	31'-07"	28'-08"	31'-08"	28'-10"	27'-08"	28'-08"	27'-08"	25'-08"
	WI 60	9 1/2"	19'-03"	17'-07"	18'-08"	18'-10"	17'-02"	15'-04"	17'-05"	18'-07"	14'-10"
		11 1/2"	22'-04"	20'-04"	18'-02"	21'-09"	19'-10"	17'-09"	21'-01"	19'-03"	17'-02"
	WI 80	14"	24'-09"	22'-07"	20'-02"	24'-02"	22'-00"	19'-08"	23'-04"	21'-04"	19'-01"
		16"	25'-08"	23'-11"	21'-04"	24'-04"	22'-10"	20'-10"	22'-07"	21'-03"	19'-08"
Snow 115%	GPI 20	9 1/2"	17'-08"	18'-03"	14'-08"	18'-10"	15'-08"	14'-08"	15'-08"	14'-08"	13'-07"
		11 1/2"	20'-10"	19'-00"	17'-00"	20'-02"	18'-08"	16'-08"	18'-10"	17'-08"	16'-03"
	GPI 40	9 1/2"	18'-04"	18'-09"	14'-11"	17'-11"	16'-09"	14'-08"	16'-08"	15'-08"	14'-03"
		11 1/2"	21'-02"	19'-04"	17'-03"	20'-08"	18'-11"	16'-11"	20'-00"	18'-08"	16'-08"
	GPI 65	14"	23'-08"	21'-05"	18'-01"	23'-00"	21'-00"	18'-08"	22'-05"	20'-08"	18'-03"
		16"	24'-10"	23'-03"	21'-08"	23'-08"	22'-01"	20'-08"	21'-11"	20'-07"	19'-01"
Live 40 Dead 15	WI 40	9 1/2"	28'-03"	26'-07"	21'-07"	28'-09"	25'-02"	22'-08"	28'-00"	23'-08"	21'-08"
		11 1/2"	31'-05"	27'-01"	21'-07"	29'-08"	27'-11"	22'-08"	27'-08"	23'-01"	21'-02"
	WI 60	9 1/2"	17'-05"	15'-11"	14'-02"	17'-01"	15'-07"	13'-11"	18'-08"	15'-02"	13'-07"
		11 1/2"	20'-02"	18'-05"	16'-05"	19'-09"	18'-01"	16'-01"	19'-03"	17'-07"	15'-08"
	WI 80	14"	22'-05"	20'-05"	18'-03"	21'-11"	20'-00"	17'-11"	21'-04"	19'-08"	17'-08"
		16"	23'-08"	21'-08"	19'-04"	22'-10"	21'-03"	18'-11"	21'-03"	20'-00"	18'-08"
Snow 115%	GPI 20	9 1/2"	18'-07"	15'-01"	13'-08"	15'-11"	14'-10"	13'-05"	14'-10"	13'-11"	12'-11"
		11 1/2"	18'-02"	17'-08"	15'-08"	18'-10"	17'-03"	15'-04"	17'-10"	16'-08"	15'-00"
	GPI 40	9 1/2"	16'-11"	15'-08"	13'-08"	16'-07"	15'-02"	13'-08"	15'-10"	14'-08"	13'-02"
		11 1/2"	19'-08"	17'-08"	15'-10"	19'-02"	17'-06"	15'-07"	18'-09"	17'-01"	15'-03"
	GPI 65	14"	21'-07"	19'-08"	17'-07"	21'-03"	19'-04"	17'-03"	20'-09"	18'-11"	16'-11"
		16"	23'-04"	21'-11"	18'-03"	22'-05"	20'-10"	19'-00"	20'-10"	19'-08"	18'-01"
Live 60 Dead 15	WI 40	9 1/2"	28'-07"	22'-10"	18'-03"	25'-04"	23'-10"	19'-00"	23'-08"	22'-03"	20'-07"
		11 1/2"	31'-08"	22'-10"	18'-03"	28'-02"	23'-10"	19'-00"	26'-04"	24'-09"	21'-00"
	WI 60	9 1/2"	16'-00"	14'-07"	13'-01"	15'-09"	14'-08"	12'-10"	15'-08"	14'-01"	12'-08"
		11 1/2"	18'-07"	16'-11"	15'-01"	18'-03"	16'-08"	14'-10"	17'-10"	16'-03"	14'-06"
	WI 80	14"	20'-07"	18'-09"	16'-09"	20'-03"	18'-06"	16'-08"	19'-08"	18'-01"	16'-01"
		16"	21'-10"	19'-11"	17'-08"	21'-08"	19'-07"	17'-08"	20'-02"	18'-11"	17'-01"
Snow 115%	GPI 20	9 1/2"	18'-07"	15'-01"	13'-08"	15'-11"	14'-10"	13'-05"	14'-10"	13'-11"	12'-11"
		11 1/2"	18'-02"	17'-08"	15'-08"	18'-10"	17'-03"	15'-04"	17'-10"	16'-08"	15'-00"
	GPI 40	9 1/2"	16'-11"	15'-08"	13'-08"	16'-07"	15'-02"	13'-08"	15'-10"	14'-08"	13'-02"
		11 1/2"	19'-08"	17'-08"	15'-10"	19'-02"	17'-06"	15'-07"	18'-09"	17'-01"	15'-03"
	GPI 65	14"	21'-07"	19'-08"	17'-07"	21'-03"	19'-04"	17'-03"	20'-09"	18'-11"	16'-11"
		16"	23'-04"	21'-11"	18'-03"	22'-05"	20'-10"	19'-00"	20'-10"	19'-08"	18'-01"
Live 80 Dead 15	WI 40	9 1/2"	28'-07"	22'-10"	18'-03"	25'-04"	23'-10"	19'-00"	23'-08"	22'-03"	20'-07"
		11 1/2"	31'-08"	22'-10"	18'-03"	28'-02"	23'-10"	19'-00"	26'-04"	24'-09"	21'-00"
	WI 60	9 1/2"	16'-00"	14'-07"	13'-01"	15'-09"	14'-08"	12'-10"	15'-08"	14'-01"	12'-08"
		11 1/2"	18'-07"	16'-11"	15'-01"	18'-03"	16'-08"	14'-10"	17'-10"	16'-03"	14'-06"
	WI 80	14"	20'-07"	18'-09"	16'-09"	20'-03"	18'-06"	16'-08"	19'-08"	18'-01"	16'-01"
		16"	21'-10"	19'-11"	17'-08"	21'-08"	19'-07"	17'-08"	20'-02"	18'-11"	17'-01"
Snow 115%	GPI 20	9 1/2"	18'-07"	15'-01"	13'-08"	15'-11"	14'-10"	13'-05"	14'-10"	13'-11"	12'-11"
		11 1/2"	18'-02"	17'-08"	15'-08"	18'-10"	17'-03"	15'-04"	17'-10"	16'-08"	15'-00"
	GPI 40	9 1/2"	16'-11"	15'-08"	13'-08"	16'-07"	15'-02"	13'-08"	15'-10"	14'-08"	13'-02"
		11 1/2"	19'-08"	17'-08"	15'-10"	19'-02"	17'-06"	15'-07"	18'-09"	17'-01"	15'-03"
	GPI 65	14"	21'-07"	19'-08"	17'-07"	21'-03"	19'-04"	17'-03"	20'-09"	18'-11"	16'-11"
		16"	23'-04"	21'-11"	18'-03"	22'-05"	20'-10"	19'-00"	20'-10"	19'-08"	18'-01"
Live 80 Dead 15	WI 40	9 1/2"	28'-07"	22'-10"	18'-03"	25'-04"	23'-10"	19'-00"	23'-08"	22'-03"	20'-07"
		11 1/2"	31'-08"	22'-10"	18'-03"	28'-02"	23'-10"	19'-00"	26'-04"	24'-09"	21'-00"
	WI 60	9 1/2"	16'-00"	14'-07"	13'-01"	15'-09"	14'-08"	12'-10"	15'-08"	14'-01"	12'-08"
		11 1/2"	18'-07"	16'-11"	15'-01"	18'-03"	16'-08"	14'-10"	17'-10"	16'-03"	14'-06"
	WI 80	14"	20'-07"	18'-09"	16'-09"	20'-03"	18'-06"	16'-08"	19'-08"	18'-01"	16'-01"
		16"	21'-10"	19'-11"	17'-08"	21'-08"	19'-07"	17'-08"	20'-02"	18'-11"	17'-01"