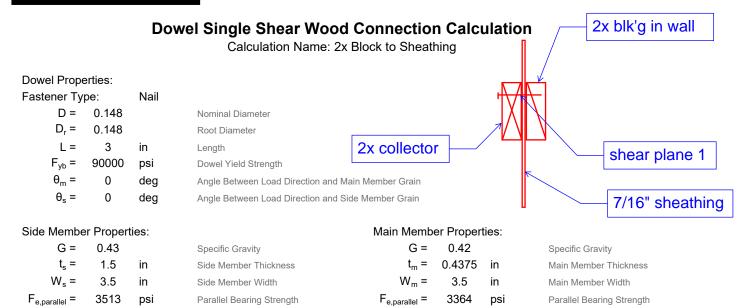
Designed By: XXX Checked By: XXX



F_{e,perp.} =

F_{em} =

3364

3364

psi

psi

Perp. Bearing Strength

Dowel Bearing Strength

Shear Yield Limit Equations

3513

3513

psi

psi

Reduction Term:

 $F_{es} =$

 $F_{e,perp.} =$

Fastener Size	Yield Mode	Rd
0.25" < D < 1"	lm, Is	4
	II	3.6
	IIIm, IIIs, IV	3.2
D < 0.25"	ΑII	2.2

Variables

Yield

Ш

 III_{m}

1116

IV

118

37

131

101

lb

lb

lb

lb

iables				
$t_o =$	0	in	Thickness of additional members in connection prior to side member	
$L_s =$	1.5	in	Side member dowel bearing length	
$L_m =$	0.4375	in	Main member dowel bearing length	
$R_e =$	0.958			
$R_t =$	0.292			
$K_1 =$	0.332			
$K_2 =$	1.103			
$K_3 =$	1.145			
ld Mode	Z			
I_{m}	99	lb	Wood crushing in main member	
I_s	355	lb	Wood crushing in side member	

Plastic hinge in fastener + wood crushing in main member

Plastic hinge in fastener + wood crushing in side member

Plastic hinge in fastener on each side of shear plane

Perp. Bearing Strength

Dowel Bearing Strength

37 lb/fastener 10d commons 11 lb/fastener adjusted for P/10*Dia

Rotation of fastener