



calculation of natural frequency				
pretension				
low	low-medium	medium	medium-high	high
factor = 0.7	factor = 0.85	factor = 1	factor = 1.1	factor = 1.2
no lining			yes lining	
base thickness = 2-2.5 [mm]			base thickness = 2-3 times thicker than without lining	
how many living layers?				
0	1	2	3	
factor = 1	factor = 1.1	factor = 1.2	factor = 1.3	
deformation				
not at all	medium		heavy	
factor = 1	factor = 1.1		factor = 1.2	
sub-calculation of E-module ← base E-module: 400 [N/mm ²]				
sub-calculation of bending stiffness ← Poisson ratio: 0.3				
impasto-painted surface				
0%	10%	20%	50%	
factor = 1	factor = 1.1	factor = 1.4	factor = 2	
sub-calculation of density ← base density: 400 [kg/m ³]				
first natural frequency [Hz]				