Preliminary planned mechanical load format of canvas O transportation (loan) O quadrangle O exhibition AND O oval O transportation and exhibition O circular · *If the format of the canvas is circular, the dimensions "width" and O restoration treatment "height" are replaced by "diameter". AND know first natural frequency? pretension deformation impasto-painted known frequency low: TensionFactor = 0.7 O 0%: ImpastoFactor = 1 O 0: LiningFactor = 1 O not at all: DeformFactor = 1 O low-medium: TensionFactor = 0.85 O 10%: ImpastoFactor = 1.1 O LiningFactor = 1.1 O medium: DeformFactor = 1.1 medium: ☐ frequency from user TensionFactor = 1 medium-high: TensionFactor = 1.1 20%: 0 O heavy: DeformfFactor = 1.2 ImpastoFactor = 1.4 O 50%: ImpastoFactor = 2 O high: TensionFactor = 1.2 LiningFactor = 1.3 affects base thickness* · Parameters are not dependent on each other. · Pretension, lining, and deformation act as adjustment parameters in the calculation of the Young's modulus, and impasto is used to adjust the density. ***If the thickness of painting is not provided, the base thickness is estimated based on the presence and number of lining layers. Without lining (0 layers), it is set to 2-2.5 mm. With lining, the base thickness is set to 2-3 times the value with lining. However, for improved accuracy, entering the measured thickness is recommended. AND measurements of artwork canvas size stretcher construction decorative frame width/height or O type of glazing: plain/museum/acrylic diameter of one partition [mm] weight [kg] weight [kg] □ weight [kg] O weight with/without glazing width/height or □ width/height or diameter [mm] width/height or average thickness of length and cross bars [mm] width/height or diameter [mm] average thickness** of painted canvas [mm] of glazing [mm] thickness [mm] 1 ☐ thickness of glazing [mm] ☐ thickness [mm] ☐ number of partitions O type of wood: soft/hard individually partially Calculation of first natural frequency Poisson ratio: 0.3 base Young's modulus: 400 [N/mm²] base density: 400 [kg/m³] calculation of Young's modulus calculation of bending stiffness calculation of density first natural frequency [Hz]