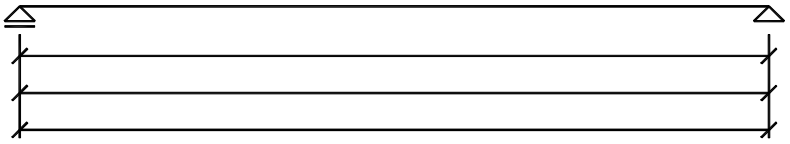
Load test of bridge model		L
Ústav stavebního zkušebnictví, FAST, VUT v Brně	Name:	
BI02 Testing and technology	Study group:	Date:

1. Calculation of theoretical deformations

Characteristics of bridge model and load specifications: a = ... (m)

Figure:



Calculation of theoretical deformations:

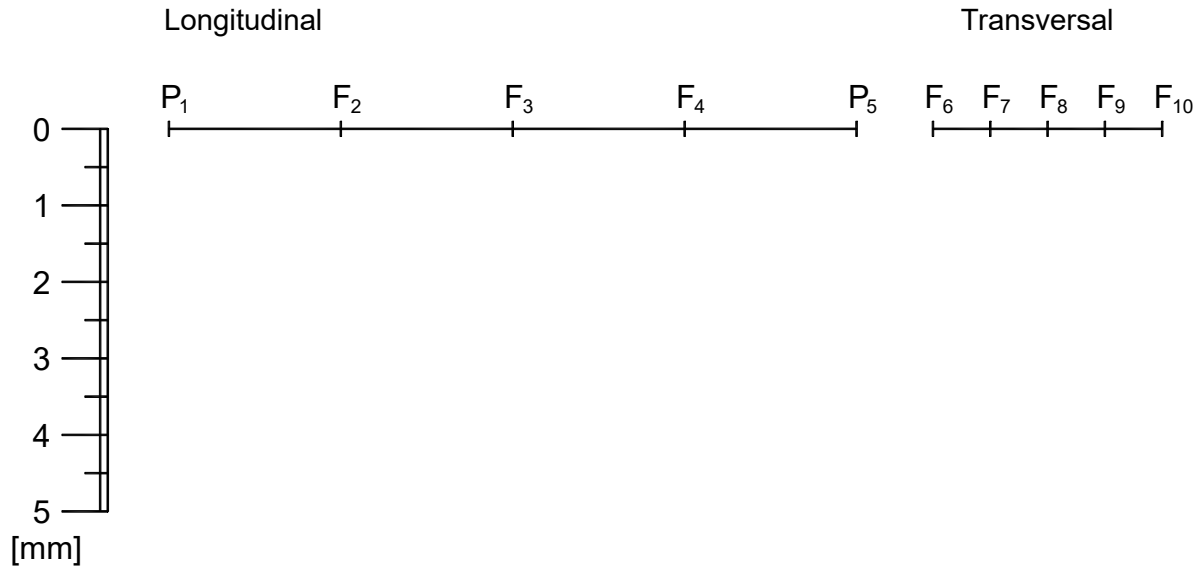
v_A =

v_B =

v_B' =

$v_{theor} = v_A + v_B + v_B'$ =

3. Grafical plotting of deformations (according to the results of test)



Load test of bridge model

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2. Loading state + def. calculation	Gauge reading										Calculation of deformations			note
	Support deformations (mm)		Measured deformations (mm)								∅ P = (P1 + P5) / 2 (mm)	max. deformations v_{max} (on F3) (mm)	v_{max} - ∅ P (mm)	
			In direction of flooring			Cross direction of flooring								
	P1	**P5**	F2	**F3**	F4	F6	F7	F8	F9	F10				
m_1														
m_2														
Total def. **$v_t = m_2 - m_1$**														
m_3														
Elastic def. **$v_e = m_2 - m_3$**														
Plastic def. **$v_p = m_3 - m_1$**														
Check of calculation : $v_t = v_e + v_p$														

Evaluation of loading capacity for measurement in point 3 – center of span	
0,6 < v_{elast} / v_{theor} = ... / ..... = ... ≤ 1,10	v_{plast} / v_{total} = ... / ..... = ... ≤ 0,15
Comments:	