

Tabulka 8.1 Primární lokální vektory koncových sil

(a)		(8.1a/1)	$\begin{Bmatrix} -b^2 \frac{3l-2b}{l^3} F_z \\ -\frac{b}{l} F_x \end{Bmatrix}$	(8.1a/2)	$\begin{Bmatrix} -\frac{1}{2} F_x \\ -\frac{1}{2} F_z \end{Bmatrix}$	(8.1a/3)	$\begin{Bmatrix} 0 \\ -\frac{ab}{l^3} M \\ \frac{2l-3b}{l^2} M \end{Bmatrix}$	(8.1a/4)	$\begin{Bmatrix} 0 \\ \frac{3}{2} \frac{M}{l} \end{Bmatrix}$	(8.1a/5)	Zatěžovací momenty tuze připojených konců se uplatní jako uzlové zatížení	(8.1a/6)	$\begin{Bmatrix} -\frac{1}{2} nl \\ -\frac{1}{2} ql \end{Bmatrix}$	(8.1a/7)	$\begin{Bmatrix} -\frac{2al-a^2}{2l} \frac{n}{2l} \\ -\frac{2al^3-2a^3l+a^4}{2l^3} \frac{q}{12l^2} \end{Bmatrix}$	(8.1a/8)	$\begin{Bmatrix} -\frac{1}{8} nl \\ -\frac{3}{32} ql \end{Bmatrix}$	(8.1a/9)	$\begin{Bmatrix} -\frac{2n_a+n_b}{6} \\ -\frac{7q_a+3q_b}{20} \end{Bmatrix}$	(8.1a/10)	$\begin{Bmatrix} EA\alpha_T \Delta T_0 \\ 0 \\ EI \frac{\alpha_T \Delta T_1}{h} \\ -EA\alpha_T \Delta T_0 \\ 0 \\ EI \frac{\alpha_T \Delta T_1}{h} \end{Bmatrix}$
		(8.1b/1)	$\begin{Bmatrix} -b \frac{3l^2-b^2}{2l^3} F_z \\ -\frac{b}{l} F_x \end{Bmatrix}$	(8.1b/2)	$\begin{Bmatrix} -\frac{1}{2} F_x \\ -\frac{11}{16} F_z \end{Bmatrix}$	(8.1b/3)	$\begin{Bmatrix} -\frac{l^2-b^2}{3} \frac{M}{2l^3} \\ \frac{l^2-3b^2}{2l^2} M \end{Bmatrix}$	(8.1b/4)	$\begin{Bmatrix} 0 \\ \frac{9}{8} \frac{M}{l} \end{Bmatrix}$	(8.1b/5)	$\begin{Bmatrix} 0 \\ \frac{3}{2} \frac{M}{l} \end{Bmatrix}$	(8.1b/6)	$\begin{Bmatrix} -\frac{1}{2} nl \\ -\frac{5}{8} ql \end{Bmatrix}$	(8.1b/7)	$\begin{Bmatrix} -\frac{2al-a^2}{2l} \frac{n}{8l^3} \\ -\frac{8al^3-4a^3l+a^4}{(2al-a^2)^2} \frac{q}{8l^2} \end{Bmatrix}$	(8.1b/8)	$\begin{Bmatrix} -\frac{1}{8} nl \\ -\frac{23}{128} ql \end{Bmatrix}$	(8.1b/9)	$\begin{Bmatrix} -\frac{2n_a+n_b}{6} \\ -\frac{16q_a+9q_b}{40} \end{Bmatrix}$	(8.1b/10)	$\begin{Bmatrix} EA\alpha_T \Delta T_0 \\ 3 \frac{EI}{2} \frac{\alpha_T \Delta T_1}{hl} \\ -\frac{3}{2} \frac{EI}{h} \frac{\alpha_T \Delta T_1}{h} \\ -EA\alpha_T \Delta T_0 \\ 3 \frac{EI}{2} \frac{\alpha_T \Delta T_1}{hl} \\ 0 \end{Bmatrix}$
		(8.1b/1)	$\begin{Bmatrix} -a^2 \frac{3l-a}{2l^3} F_z \\ -\frac{a}{l} F_x \end{Bmatrix}$	(8.1b/2)	$\begin{Bmatrix} -\frac{1}{2} F_x \\ -\frac{5}{16} F_z \end{Bmatrix}$	(8.1b/3)	$\begin{Bmatrix} \frac{l^2-b^2}{3} \frac{M}{2l^3} \\ 0 \end{Bmatrix}$	(8.1b/4)	$\begin{Bmatrix} 0 \\ \frac{9}{8} \frac{M}{l} \end{Bmatrix}$	(8.1b/5)	$\begin{Bmatrix} 0 \\ \frac{3}{2} \frac{M}{l} \end{Bmatrix}$	(8.1b/6)	$\begin{Bmatrix} -\frac{1}{2} nl \\ -\frac{3}{8} ql \end{Bmatrix}$	(8.1b/7)	$\begin{Bmatrix} -\frac{a^2}{2l} \frac{n}{2l} \\ -\frac{4a^3l-a^4}{8l^2} \frac{q}{12l^2} \end{Bmatrix}$	(8.1b/8)	$\begin{Bmatrix} -\frac{3}{8} nl \\ -\frac{41}{128} ql \end{Bmatrix}$	(8.1b/9)	$\begin{Bmatrix} -\frac{n_a+2n_b}{6} \\ -\frac{4q_a+11q_b}{40} \end{Bmatrix}$	(8.1b/10)	$\begin{Bmatrix} -EA\alpha_T \Delta T_0 \\ 3 \frac{EI}{2} \frac{\alpha_T \Delta T_1}{hl} \\ 0 \end{Bmatrix}$

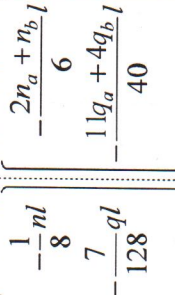
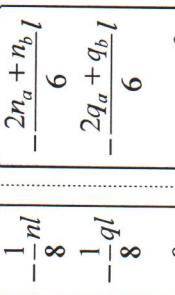
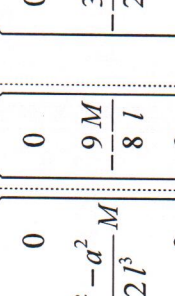
Obdélník, průřez:
 $\Delta T_0 = (\Delta T^a + \Delta T^b)/2$;
 $\Delta T_1 = \Delta T^a - \Delta T^b$

(b)

Obdélník, průřez:
 $\Delta T_0 = (\Delta T^a + \Delta T^b)/2$;
 $\Delta T_1 = \Delta T^a - \Delta T^b$

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 $\Delta T_0 = (\Delta T^a + \Delta T^b)/2$;
 $\Delta T_1 = \Delta T^a - \Delta T^b$

(c)	Obdélník, průřez: $\Delta T_0 = (\Delta T^d + \Delta T^h)/2$; $\Delta T_1 = \Delta T^d - \Delta T^h$					
		(8.1c/1)	(8.1c/2)	(8.1c/3)	(8.1c/4)	(8.1c/5)
	$\begin{Bmatrix} \bar{X}_{a,b}^* \\ \bar{Z}_{a,b}^* \\ \bar{M}_{a,b}^* \end{Bmatrix}$	$\begin{Bmatrix} -\frac{b}{l}F_x \\ -\frac{3l-b}{2l^3}F_z \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} -\frac{1}{2}F_x \\ -\frac{5}{16}F_z \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ -\frac{l^2-a^2}{2l^3}M \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{9M}{8l} \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ -\frac{3M}{2l} \\ M \end{Bmatrix}$
	$\begin{Bmatrix} \bar{X}_{b,a}^* \\ \bar{Z}_{b,a}^* \\ \bar{M}_{b,a}^* \end{Bmatrix}$	$\begin{Bmatrix} -\frac{a}{l}F_x \\ -\frac{3l^2-a^2}{2l^3}F_z \\ -\frac{l+a}{2l^2}F_z \end{Bmatrix}$	$\begin{Bmatrix} -\frac{1}{2}F_x \\ \frac{11}{16}F_z \\ -\frac{3}{16}F_z \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{l^2-a^2}{2l^3}M \\ \frac{l^2-3a^2}{2l^2}M \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{9M}{8l} \\ \frac{1}{8}M \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{3M}{2l} \\ \frac{1}{2}M \end{Bmatrix}$
(d)	Obdélník, průřez: $\Delta T_0 = (\Delta T^d + \Delta T^h)/2$; $\Delta T_1 = \Delta T^d - \Delta T^h$					
		(8.1d/1)	(8.1d/2)	(8.1d/3)	(8.1d/4)	(8.1d/5)
	$\begin{Bmatrix} \bar{X}_{a,b}^* \\ \bar{Z}_{a,b}^* \\ \bar{M}_{a,b}^* \end{Bmatrix}$	$\begin{Bmatrix} -\frac{b}{l}F_x \\ -\frac{b}{l}F_z \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} -\frac{1}{2}F_x \\ -\frac{1}{2}F_z \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{M}{l} \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ -\frac{M}{l} \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ -\frac{M_1+M_2}{l} \\ M_1 \end{Bmatrix}$
	$\begin{Bmatrix} \bar{X}_{b,a}^* \\ \bar{Z}_{b,a}^* \\ \bar{M}_{b,a}^* \end{Bmatrix}$	$\begin{Bmatrix} -\frac{a}{l}F_x \\ -\frac{a}{l}F_z \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} -\frac{1}{2}F_x \\ -\frac{1}{2}F_z \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{M}{l} \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{M}{l} \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{M_1+M_2}{l} \\ M_2 \end{Bmatrix}$
(e)	Obdélník, průřez: $\Delta T_0 = (\Delta T^d + \Delta T^h)/2$; $\Delta T_1 = \Delta T^d - \Delta T^h$					
		(8.1e/1)	(8.1e/2)	(8.1e/3)	(8.1e/4)	(8.1e/5)
	$\begin{Bmatrix} \bar{X}_{a,b}^* \\ \bar{Z}_{a,b}^* \\ \bar{M}_{a,b}^* \end{Bmatrix}$	$\begin{Bmatrix} -\frac{b}{l}F_x \\ -\frac{b}{l}F_z \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} -\frac{1}{2}F_x \\ -\frac{1}{2}F_z \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{M}{l} \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ -\frac{M}{l} \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ -\frac{M_1+M_2}{l} \\ M_1 \end{Bmatrix}$
	$\begin{Bmatrix} \bar{X}_{b,a}^* \\ \bar{Z}_{b,a}^* \\ \bar{M}_{b,a}^* \end{Bmatrix}$	$\begin{Bmatrix} -\frac{a}{l}F_x \\ -\frac{a}{l}F_z \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} -\frac{1}{2}F_x \\ -\frac{1}{2}F_z \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{M}{l} \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{M}{l} \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 0 \\ \frac{M_1+M_2}{l} \\ M_2 \end{Bmatrix}$