

**Determination of Seismic Forces by the Equivalent Static Force Procedure
NBC 2005**

Country:	Haïti	$S_a(0.2) = 0,623 \text{ g}$
City:	Jérémie	$S_a(0.5) = 0,443 \text{ g}$
		$S_a(1.0) = 0,221 \text{ g}$
Site class:	C	$S_a(2.0) = 0,111 \text{ g}$
		PGA = 0,264 g

Steel Structures -- Standard CSA-S16

Other steel SFAS(s) not defined above

Building height:	4,00 m	Number of storeys:	1
Risk category:	Normal		

$$T_a = 0,3606 \text{ s} \quad S(T_a) = 0,5263 \text{ g}$$

$$F_a = 1,000 \quad F_v = 1,000$$

$$R_d = 1,0 \quad R_o = 1,0$$

$$H_n = 4,00 \text{ m} \quad N = 0$$

$$M_v = 1,000 \quad J = 1,000$$

$$D_n = 0,00 \text{ m} \quad I_E = 1,0$$

$$\mathbf{V = 0,5263 \text{ W}} \quad W = 101,0 \text{ kN}$$

$$\mathbf{V = 53,16 \text{ kN}}$$

Notes:

NBC 2005 - 4.1.8.7 : You can use the equivalent static force procedure because $H_n = 4 < 60\text{m}$ and $T_a = 0,361 < 2\text{s}$ (Regular structure)

NBC 2005 - 4.1.8.9 : The selected SFRS isn't permitted for the spectral acceleration response ($I_e F_a S_a(0.2) = 0,62$)

NBC 2005 - 4.1.8.10 : No restriction.

Project:

Rehabilitation Bibliotheque Stenio Vencent de Jeremie

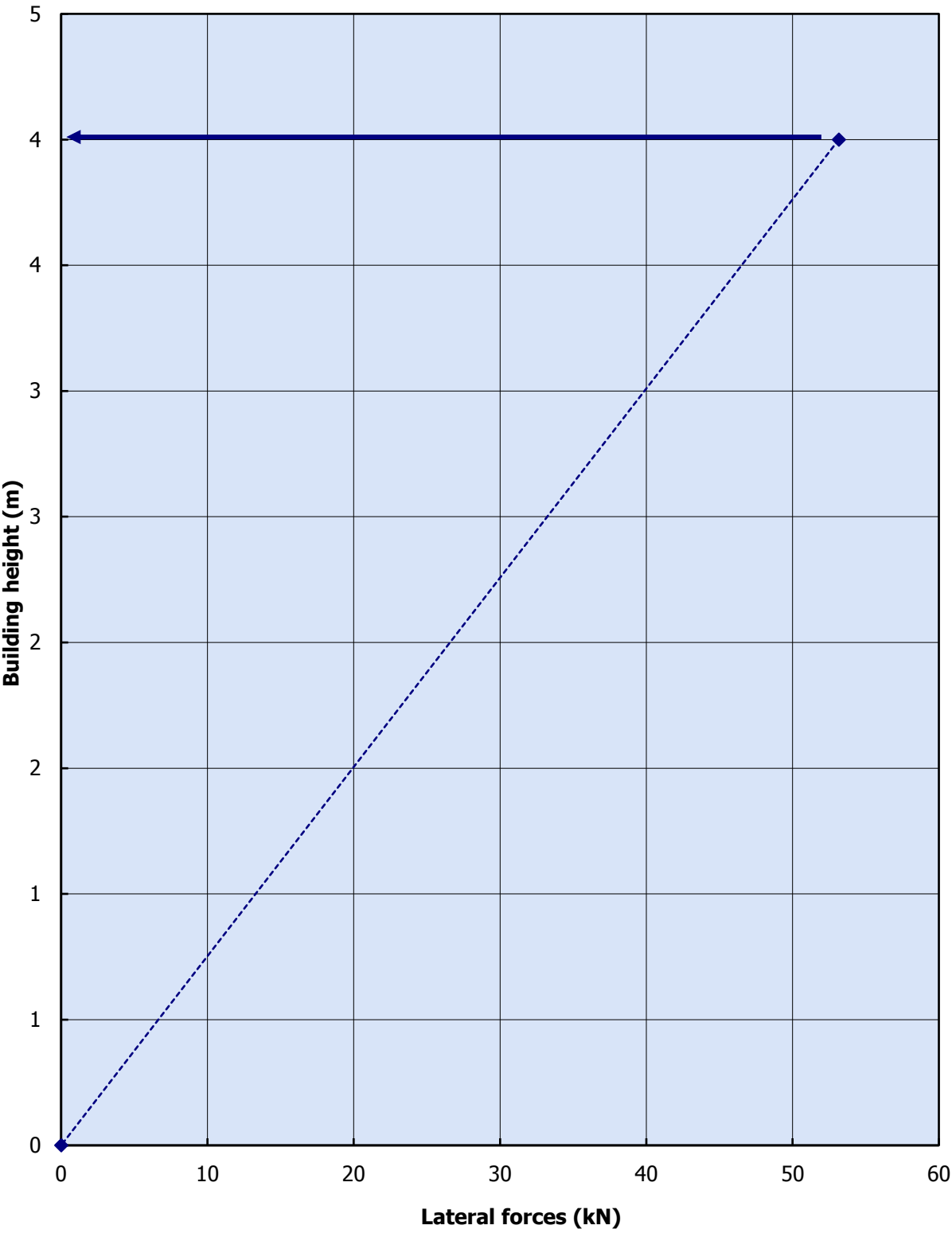
Engineer:

colas elsoit

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(1) This tool is distributed without any warranty. THE QUALITY, THE RESULTS AND THE PERFORMANCE OF THIS TOOL ARE AT THE SOLE RISK OF THE USER.

Distribution of Lateral Seismic Forces
(Static Equivalent Force Procedure)



Distribution of Overturning Moment
(Static Equivalent Force Procedure)

