## TEXTBOOK ERRATA

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Page Number	Error	Correction
V	Chapter 2 Heading has spelling mistake	Should read as: "CHAPTER 2 BUILDING DESIGN"
X	Chapter 13 Heading has spelling mistake	Should read as: "CHAPTER 13 DESIGN OF LOADBEAGRING SINGLE-STOREY MASONRY BUILDINGS"
649	Equation 10.31 has unnecessary bracket }	Delete bracket next to equation number 10.31
650	Equation 10.32 is missing variable θ	Equation 10.32 should appear as $Q_{I_{a.e.}} = (M_{f_v})(x)(\theta_y)$
757	Text related to Table 12.1 can be confusing to interpret the dimensional limits for movement joint spacing.	2. Crack Control with Movement Joints and Horizontal Reinforcement. Based on the recommendations from NCMA12.13 it is possible to use a combination of reinforcement with regularly spaced movement joints to successfully mitigate shrinkage cracks that may detract from the overall appearance. By providing the minimum reinforcement summarized in Table 12.1, movement joints should not have a spacing that exceeds smj = 7.6 m when the height of the wall is greater than 3.0 m. For wall heights less than this, smj should be limited to length, & divided by 2.5. For wall heights less than this, smj should be limited to the height of the wall multiplied by 2.5. This will ensure a length to height aspect ratio of at most 2.5 is maintained for portions of wall between movement joints. These limits are adapted from NCMA based on Canadian design values (e.g., use of effective mortared area for effective area calculations, minimum reinforcement ratio of 0.067%, standard metric dimensions, etc.). The reinforcement limits provided in Table 12.1 for partially-grouted masonry also assume a relatively small total relative movement in the unit. Units and locations where higher levels of total linear drying shrinkage, shrinkage due to carbonation, and thermal shrinkage, are likely to

			ay require a smaller spacing of movement joints. 12.13 These values are provided here as a guidelin typical units available in Canada.  2.1 Suggested Maximum Movement Joint Spacing in Partially-Grouted Concrete Bloc Masonry Walls (Interior Construction).  Maximum Spacing between Movement Joints, s <sub>mj</sub> <sup>a</sup>										
			4.8 m – 6.6 m <sup>b</sup> $\frac{7.6 \text{ m} \le \ell \div 2.5 \text{ min } \{7.6 \text{ m}; \text{h*2.5}\}}{2.5 \text{ min } \{7.6 \text{ m}; \text{h*2.5}\}}$										
				Horizontal Reinforcement Required <sup>c</sup>									
		Unit Size	None	BJR	BJR+BB	HD-BJR	10M	15M					
		15 cm	-	600 mm	600 mm	600 mm	2,400 mm	2,400 mm					
		20 cm	-	400 mm	600 mm	600 mm	1,600 mm	2,400 mm					
		25 cm	-	400 mm	600 mm	600 mm	1,400 mm	2,400 mm					
		30 cm	-	200 mm	600 mm	600 mm	1,200 mm	2,400 mm					
		experienced during construction, and the expected conditions during the useful life of the building. In many cases designers may opt for a much higher or much lower spacing depending on the aforementioned variables.  bWhen using units that meet the moisture-controlled specifications in CSA A165.1 and expected in-situ relative humidity levels are maintained between 50-75% then $s_{mj}$ can be taken as a maximum of 6.6 m. Otherwise, when the expected in-situ relative humidity is expected to be low below 50% then $s_{mj}$ should not be taken greater than 4.8 m. below 50% then spacings provided are based on the properties given in Appendix B. Where: BJR is Standard Bed Joint Reinforcement, BJR+BB is Standard Bed Joint Reinforcement where a bond beam with at least one 10M bar is placed at a spacing not exceeding 2,400 mm, and HD-BJR is Heavy Duty Bed Joint Reinforcement.											
		bWhen using humidity leve expected in-s 'The spacing Reinforcement placed at a sp	y opt for a much units that meet els are maintaine itu relative hum s provided are nt, BJR+BB is acing not excee	h higher or muc t the moisture-ced between 50-7 hidity is expecte based on the p Standard Bed J eding 2,400 mm	th lower spacing controlled special $75\%$ then $s_{mj}$ cand to be low below properties given oint Reinforcen	g depending on the fications in CSA to be taken as a mow 50% then $s_{mj}$ in Appendix Innert where a both series of the first table.	he aforementioned A A165.1 and exaximum of 6.6 m should not be taked. Where: BJR is and beam with at	ed variables. pected in-situ relative n. Otherwise, when the sen greater than 4.8 m. is Standard Bed Joint t least one 10M bar is					
809	Equation 13.76 is missing variable $\ell$	bWhen using humidity leve expected in-s 'The spacing Reinforcement placed at a sp	y opt for a much units that meet els are maintaine itu relative hum s provided are nt, BJR+BB is acing not exceed 76 should appe	h higher or muc t the moisture-ced between 50-7 hidity is expecte based on the p Standard Bed J eding 2,400 mm	th lower spacing controlled special $75\%$ then $s_{mj}$ cand to be low below properties given oint Reinforcen	g depending on the fications in CSA to be taken as a mow 50% then $s_{mj}$ in Appendix Innert where a both series of the first table.	he aforementioned A A165.1 and exaximum of 6.6 m should not be taked. Where: BJR is and beam with at	ed variables. pected in-situ relative n. Otherwise, when the sen greater than 4.8 m. is Standard Bed Joint t least one 10M bar is					
	missing variable ℓ  Table B.1 has an incorrect solid	bWhen using humidity leve expected in-s $^{\circ}$ The spacing Reinforcement placed at a specific Equation 13.7 $M = M_1 \ell_1$	y opt for a much units that meet els are maintaine itu relative hum s provided are nt, BJR+BB is acing not exceed 6 should appe	h higher or muc t the moisture-ced between 50-7 hidity is expecte based on the p Standard Bed J eding 2,400 mm	th lower spacing controlled specing to the south of the s	g depending on the fications in CSA to be taken as a mow 50% then $s_{mj}$ in Appendix I then the ment where a box is Heavy Duty B	he aforementioned A A165.1 and exaximum of 6.6 m should not be taked. Where: BJR is and beam with at	ed variables. pected in-situ relative n. Otherwise, when the sen greater than 4.8 m. is Standard Bed Joint t least one 10M bar is					
809	missing variable ℓ  Table B.1 has an	bWhen using humidity leve expected in-s $^{\circ}$ The spacing Reinforcement placed at a specific Equation 13.7 $M = M_1 \ell_1$	y opt for a much units that meet els are maintaine itu relative hum s provided are nt, BJR+BB is acing not exceed 6 should appe	th higher or much the moisture-ced between 50-7 aidity is expected based on the part of th	th lower spacing controlled specifications of the second to be low below properties given oint Reinforcent, and HD-BJR in the second to be 58% ecific Unit and Manual 100% 100% 100% 78%	g depending on the fications in CSA to be taken as a mow 50% then smj and in Appendix In the first three three three tracturer**  100% 100% 78% 78%	he aforementioned A A165.1 and exaximum of 6.6 m should not be taked. Where: BJR is and beam with at	ed variables. pected in-situ relative n. Otherwise, when the sen greater than 4.8 m. is Standard Bed Joint t least one 10M bar is					

	calculations in the												
	table)												
858	There were several	Table B	<b>5(b):</b> 20 c	m Conc	rete Block	Units*							
030	numerical errors in	Tuble B.	Table B.5(b):20 cm Concrete Block Units*    Vertical   20 cm Concrete Masonry Unit Stiffness (×10 <sup>9</sup> N·mm <sup>2</sup> /m)										
	Table B.5(b) and (d) that occurred during	Bar Size	Spacing (mm)	e <sub>k</sub>	15 MPa		20 MPa		25 MPa		30 MPa		
				(mm)	E <sub>m</sub> I <sub>o</sub>	E <sub>m</sub> I <sub>cr</sub>	E <sub>m</sub> I <sub>o</sub>	E <sub>m</sub> I <sub>cr</sub>	E <sub>m</sub> I <sub>o</sub>	E <sub>m</sub> I <sub>cr</sub>	E <sub>m</sub> I <sub>o</sub>	E <sub>m</sub> I <sub>cr</sub>	
	the file transfer		600	45.4	3,510.1	357.4	4,621.2	380.1	5,425.5	393.2	6,229.7	404.1	
	process. Corrected		800	48.6	3,528.5	283.4	4,633.6	299.5	5,439.2	308.8	6,244.8	316.5	
	_ A	15M	1,000	50.8	3,546.9	226.7	4,650.0	239.6	5,457.8	247.0	6,265.6	253.2	
	values are provided.		1,200	52.5	3,563.0	188.9	4,665.4	199.7	5,475.5	205.9	6,285.5	211.0	
			600	45.4	3,510.1	480.2	4,621.2	516.7	5,425.5	538.3	6,229.7	556.3	
		20M	800	48.6	3,528.5	384.8	4,633.6		5,439.2	426.7	6,244.8	439.5	
		20111	1,000	50.8	3,546.9	307.9	4,650.0	329.0	5,457.8	341.4	6,265.6	351.6	
			1,200	52.5	3,563.0	256.6	4,665.4	274.2	5,475.5	284.5	6,285.5	293.0	
		25M	600	45.4	3,510.1	710.6	4,621.2	751.0	5,425.5	781.2	6,229.7	811.5	
			1,000	48.6 50.8	3,528.5 3,546.9	559.9 447.9	4,633.6 4,650.0		5,439.2 5,457.8	626.0 500.8	6,244.8 6,265.6	649.8 519.8	
			1,200		3,563.0	373.2	4,665.4		5,475.5	417.3	6,285.5	433.2	
			1,200	32.3	3,505.0	373.2	1,005.1	570.0	3,173.3	117.5	0,203.3	133.2	
		Table R	Table B.5(d):30 cm Concrete Block Units*										
		Table B	<del> </del>										
		Bar Size	Vertical Spacing							I Do			
	15		(mm)	e <sub>k</sub> (mm)	E <sub>m</sub> I <sub>o</sub>	E <sub>m</sub> I <sub>cr</sub>	$E_{\rm m}I_{\rm o}$	E <sub>m</sub> I <sub>cr</sub>	$E_{\rm m}I_{\rm o}$	E <sub>m</sub> I <sub>cr</sub>	E <sub>m</sub> I <sub>o</sub>	E <sub>m</sub> I <sub>cr</sub>	
			600	(111111)	ı∟ <sub>m¹o</sub>	™ cr	™ <sub>m</sub> o	12m1cr	12m10	12 m¹cr	12m10	12m1cr	
		15M		800									
			1,000	Not permissible by CSA \$304 (10.15.1.1)									
			1,200										
			600	69.9	10,994.3	1,274.3	14,500.6	1,334.7	17,026.4	1,379.0	19,552.1	1,417.0	
		20M	800	75.6	10,859.9	1,006.0	14,286.8	1,060.8	16,772.6	1,092.6	19,258.3	1,118.8	
			1,000		Not permissible by CSA S304 (10.15.1.1)								
			1,200						<u> </u>				
			600		10,994.3	1,989.9	14,500.6	2,050.2	17,026.4	2,095.4	19,552.1	2,140.7	
		25M	800	75.6	10,859.9	1,542.7	14,286.8	1,603.0	16,772.6	1,648.2	19,258.3	1,693.5	
			1,000	79.9 83.2	10,806.9 10,786.4	1,274.3 1,088.8	14,191.7 14,146.1	1,334.7 1,146.5	16,658.9 16,604.0	1,379.0 1,183.2	19,126.2 19,061.9	1,417.0 1,213.6	
	1		1,200	83.2	10,/80.4	1,088.8	14,140.1	1,140.5	10,004.0	1,185.2	19,001.9	1,213.6	