

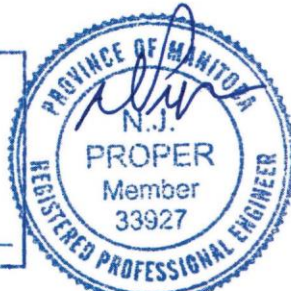
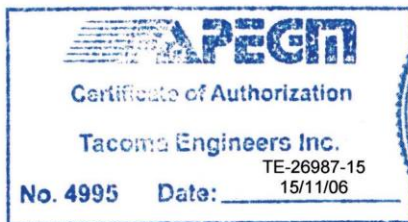
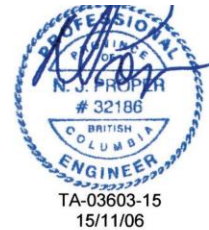


אישור הנדסה עבור נספח E

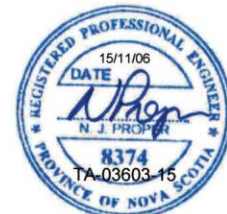
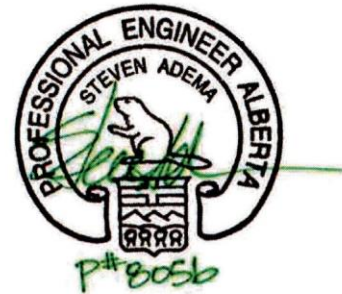
טבלאות חיזוקי משקופים בנספח E לשימוש בקנדה אושרו ב-30 לאוקטובר, 2015 על ידי Tacoma Engineers לשימוש במחוז אונטאריו. טבלאות אלה נבחנו גם על פי התקינות הבאות:

- תקינת בניה אלברטה 2014
- תקינת בניה בריטיש קולומביה 2012
- תקינת בניה מניטובה 2014
- תקינת בניה נובה סקוצ'יה 2014
- תקינת הבניה הארצית כפי שעודכנה על ידי תקינת Uniform Building and Accessibility בסקצ'ואן (2010)

הדרישות הבאות נדרשות במקום בו $S_a(0.2) \geq 0.67$
 - לודא לפחות 3 חישוקי היקף בכל משקוף לפי הרווח המוגדר בטבלאות המשקופים.



TA-03603-15
15/11/06





הגבלות תכנון
וטבלאות למשקופים

הגבלות תכנון

1. טבלאות אלו חלות על בנייני מגורים בלבד העומדים בתקנות קודי הבנייה הבינלאומיים או מדריכי התכנון המוכרים על ידי דו"חות הערכת מוצרים קנדיים עבור תאגיד NUDURA. יש להניח כי הבנייה תעמוד בחוקי הבנייה המקומיים המתאימים, אשר עשויים לכלול את:
 - חלק 9 בקוד הבנייה הלאומי של קנדה – 2010
 - חלק 9 בקודי הבנייה הפרובנציאליים הישימים, שהונפק על בסיס הדרישה לעילהערה: אם תכנית הבנייה המוצעת אינה עומדת בפרמטרי התכנון או היישום המצויים במסמך זה, יש להעסיק מתכנן מקצועי מקומי על מנת להכין תכנון בהתאם לסטנדרטים הישימים.
2. העומסים המקסימליים הבאים אינם כלולים בחישובים, והונחו בתכנון טבלאות הבנייה בנספח זה:
 - א) עומס שלג על גג (חי) = 4.0 kPa (84 psf)
 - ב) עומס שימוש בקומה מרכזית (חי) = 1.9 kPa (40 psf)
 - ג) עומס גג ורצפה (מת) = 0.7 kPa (15 psf)
 - ד) צפיפות בטון (מת) = 23.6 קילו ניוטון/מ³ (150 פאונד/רגל³)
 - ה) צפיפות לבנה (מת) = 20.0 קילו ניוטון/מ³ (128 פאונד/רגל³)
3. העומסים המפוזרים באופן אחיד המצוינים בטבלאות בנספח זה אינם כלולים בחישוב ושוערו בתכנון משקופים בהתאמה לעומסים הלא-מחושבים המצוינים בהערה 2.

4. על העומס המפוזר באופן אחיד להיות מחושב על ידי הכפלת עומס רצפה, חי (LL) ומת (DL), ברוחב רצפה ולא גג תומכים, רוחב תומך של רצפה נקבע על ידי הוספת חיזוק בכל מחצית אורך כל קורת גג אופקית או שיפועי על משקוף הבטון. לדוגמה, בעבור משקוף התומך בקורות רצפה ומגיע לאורך 3.05 מ (10' - 0") בקצה אחד בלבד, יחושב עומס מפוזר באופן אחיד (UDL) בצורה הבאה:

חישוב מטרי:

$$UDL = TW (LL + DL) = 3.05 \text{ מ} (1.9 \text{ kPa} + 0.7 \text{ kPa}) = 3.965 \text{ קילו ניוטון/מ}$$

חישוב אימפריאלי:

$$UDL = TW (LL + DL) = 10 \text{ רגל} (40 \text{ psf} + 15 \text{ psf}) = 275 \text{ פאונד/רגל}$$

5. תכנוני משקופים בטבלאות בנספח זה בעלי הגבלת סטייה של L/360.

6. התכנון מוגבל לקומה אחת מתחת פני האדמה ומקסימום של שתי קומות מעל פני האדמה.

7. טווח גבולות רצפה מקסימלי = 7.32 מ (24 רגל).

8. טווח גבולות תקרה מקסימלי = 12.2 מ (40 רגל).

9. המשקופים מתכוננים לשאת בפיזור עומס קו כבידה אחיד בלבד. יש להעסיק מתכנן מקצועי מקומי על מנת לתכנן את המשקופים כך שיוכלו לעמוד בעומסים רוחביים או נקודתיים, למשל עומסים מרוכזים כגון קורות תמיכה, עמודים ומוטות, בהתאם לסטנדרטים הישימים.

10. חיזוק משקוף מינימלי יכלול את הבאים:

- מוט עליון 10M הממוקם 38 מ"מ (1.5") מהחלק העליון של המשקוף ומתמשך לאורך מינימלי של 610 מ"מ (24") מעבר לפתח הקיר בכל קצה.
- מוטות תחתונים יהיו יסופקו בכמות ובקוטר המצוינים בטבלאות המשקופים בנספח זה, יותקנו עם כיסוי בטון של 38 מ"מ (1.5") ויתמשכו לאורך מינימלי של 610 מ"מ (24") מעבר לפתח הקיר בכל קצה.
- כאשר ישנה דרישה, יותקנו חישוקים מכופפים 10M סביב המוטות העליונים והתחתונים, בהתאם למימדים והריווח המצוינים בטבלאות ובציורים הנמצאים בסוף חלק זה.

טבלאות משקופים

11. מפרטי ברזל משקוף בהערה 10 מניחים כי חיזוק קיר אופקי רציף 10M, נשמר משני צדי פתח הקיר ב-457 מ"מ (18" o.c.).

12. כשאורך קיר בטון בין שני פתחים קטן מ-305 מ"מ (12"), יש לחזק את המשקוף כך לכסות את שני הפתחים.

13. כשאורך קיר בטון בין שני פתחים הקטן מ-610 מ"מ (24"), והיכן שכל אחד מהפתחים גדול מ-1.53 מ (0" – 5'), באורכו, יש לחזק את המשקוף כך לכסות את שני הפתחים.

14. אין להתקין מחברי בנייה בתוך 610 מ"מ (24") משני צידי כל פתח קיר.

15. אורך חפיפת מוטות מינימלי יעמוד על:

- א) 457 מ"מ (18") עבור מוטות 10M
- ב) 660 מ"מ (26") עבור מוטות 15M
- ג) 762 מ"מ (30") עבור מוטות 20M

16. כשמוטות בתוך המשקוף אינם יכולים להגיע לכיסוי צד בטון וריווח שהינו 38 מ"מ (1.5") מינימליים, יש לאגד את המוטות. ההערות הבאות חלות על כל המוטות המאוגדים:

- א) ניתן לקבץ לכל היותר ארבעה מוטות חיזוק מקבילים במגע אחד עם השני, וההנחה היא שהם יפעלו כיחידה אחת. מוטות מאוגדים יהיו קשורים, מחוטים או לחילופין מהודקים כדי להבטיח שיישארו במקומם.



- (ב) מוטות יחידים בתוך אגד נתון של מוטות עשויים להסתיים בטווח אורך משקוף (או מחבר כפיפה), עם זאת, על המוטות להסתיים בנקודות שונות הנמצאות במרחק של לפחות 40 פעמים קוטר המוט אחד מהשני.
- (ג) בכל אגד נתון של מוטות העמוס במתח או דחיסה, על אורך החפיפה ואורך התפתחות המוטות בתוך האגד, להיות כמוט יחיד I-מוגדל ב-10% עבור אגד 2 מוטות, 20% עבור אגד 3 מוטות, ו-33% עבור אגד 4 מוטות. שוב, כפי שצוין בתת-הערה ב' לעיל, אין לאפשר חפיפה של מוטות בודדים השזורים באגד.

17. על עבודות הבטון להתאים למהדורות האחרונות של התקנים הבאים עבור חומרים ועבודה:
 • CAN/CSA—A23.1 /A23.2 /A23.3

18. על ברזל החיזוק להיות מעוות, וימוקם בהתאם לכללי התעשייה ודרישות הסטנדרטיים הנהוגות בקנדה ויסופקו כמאמץ הדסי הבא:
 • קנדה: (400 MPa) Grade 400

19. על התכנון להניח שחוזק הדחיסה המינימלי למשך 28 ימים של הבטון שבשימוש בהתקנה יהיה 20 Mpa (3,000 psi).

20. על התכנון והבנייה של כל העבודה באתר להתאים למהדורות האחרונות של קודי הבנייה עבור האזור בו ההתקנה מתבצעת, לרבות תקנות קודים וחוקי עזר מקומיים וכן כל תקנות הבריאות והבטיחות החלות.

21. על הקבלן לדאוג לחלוקה מתאימה של עומסי בנייה ולחיזוקים זמניים על מנת לשמור על המבנה בצורה אנכית וישרה במהלך כל שלבי הבנייה.

22. על החלק העליון של המשקופים להתמך בצורה רוחבית על ידי מערכות רצפת או גג הבנייה, שיתוכנו על ידי אחרים.

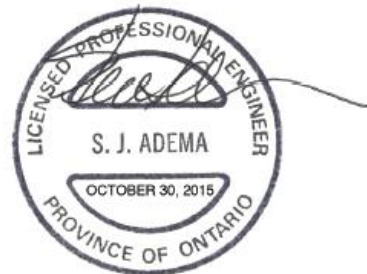
23. על הקבלן לבצע רטט בתדר גבוה במהלך הנחת כל הבטון.

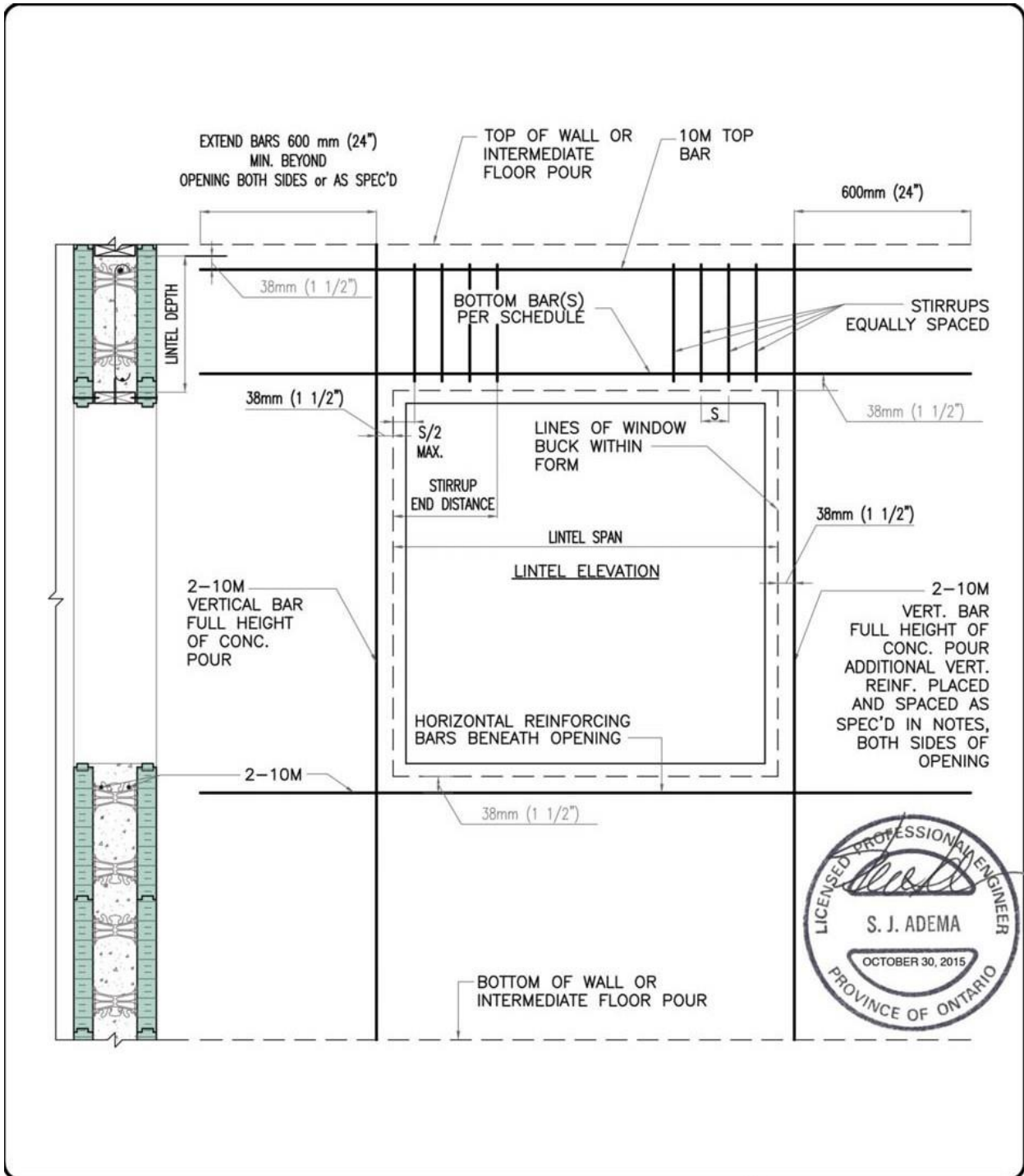
24. על הקבלן לנקוט בצעדים מתאימים על מנת להגן על הבטון מחשיפה לקיפאון ומשקעים במשך שבעה ימים לפחות לאחר מיקום הבטון.

25. אופטימלי לעשות שימוש בחצץ אפונה בקוטר מקסימלי של 9.5 מ"מ ($3/8''$) או בחצץ אגרגט בקוטר מקסימלי של 9.5 מ"מ ($3/8''$).

עבור קירות בטון בעובי 100 מ"מ ($4''$) ו-150 מ"מ ($6''$) מותר להשתמש בחצץ אגרגט בקוטר של עד 12.7 מ"מ ($1/2''$), ועבור קירות בטון בעובי 200 מ"מ ($8''$) ו-250 מ"מ ($10''$) בחצץ אגרגט בקוטר מקסימלי של 19.1 מ"מ ($3/4''$).

תשומת לב מיוחדת יש לתת בביצוע הרטט בעת השמת הבטון לשם הבטחת חלוקת חצץ אגרגט הומוגנית. שימוש בקוטר חצץ אגרגט גדול יותר עשוי לגרום לכיסי אוויר וחללים ותערובת בטון גרועה באופן כללי כתוצאה מרטט לקוי.





NUDURA
INTEGRATED BUILDING TECHNOLOGY
Building Value.

LINTEL DIAGRAM	
REV. NO. 005 KS	DWG NO. L-1 CAN
REV. DATE: SEPT 2015	
DRAWN BY: T. VAN CLIEAF	SCALE: "Not to Scale"

225mm (9") Lintel Depth

Uniformly Distributed Load

Opening Width	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	204 (8")	1-10M	204 (8")	1-10M	306 (12")	1-10M	306 (12")	1-10M	306 (12")	1-15M	306 (12")
1200mm (4'-0")	1-10M	0	1-10M	0	1-10M	204 (8")	1-10M	306 (12")	1-15M	408 (16")	1-15M	408 (16")	1-15M	408 (16")	1-15M	510 (20")		
1500mm (5'-0")	1-10M	0	1-10M	306 (12")	1-10M	408 (16")	1-15M	510 (20")	1-15M	612 (24")								
1800mm (6'-0")	1-15M	204 (8")	1-15M	408 (16")	1-20M	510 (20")												
2400mm (8'-0")	1-20M	510 (20")																
3000mm (10'-0")																		
3600mm (12'-0")																		
4200mm (14'-0")																		
4800mm (16'-0")																		
5400mm (18'-0")																		
6000mm (20'-0")																		



NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 102mm (4")

All Stirrup End Distance measurements above are listed in mm (in)

The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M

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Table Prepared by:

100mm (4")
Thick

225mm (9")
Deep

Table No.
L 4-9M

Opening Width	300mm (12") Lintel Depth																		
	Uniformly Distributed Load																		
	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)		
	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	304	1-10M	304	1-10M	304	1-10M	304	1-10M	304	1-10M	304	1-10M	456	18"
1200mm (4'-0")	1-10M	0	1-10M	304	1-10M	456	1-10M	456	1-10M	456	1-10M	456	1-10M	456	1-10M	456	1-10M	608	24"
1500mm (5'-0")	1-10M	304	1-10M	456	1-10M	608	1-10M	608	1-10M	608	1-10M	608	1-10M	608	1-15M	760	1-15M	760	30"
1800mm (6'-0")	1-10M	456	1-10M	608	1-10M	760	1-10M	760	1-15M	1064	1-15M	1064	1-15M	1064	1-15M	1064	1-15M	1064	42"
2400mm (8'-0")	1-15M	760	1-15M	912	1-20M	1216	1-15M	912	1-15M	1064	1-20M	1064	1-15M	1064	1-15M	1064	1-15M	1064	42"
3000mm (10'-0")	1-20M	1064	2-15M	1216	2-15M	1216	2-15M	1216	2-15M	1216	2-15M	1216	2-15M	1216	2-15M	1216	2-15M	1216	48"
3600mm (12'-0")	2-15M	1368																	
4200mm (14'-0")																			
4800mm (16'-0")																			
5400mm (18'-0")																			
6000mm (20'-0")																			



NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 152mm (6")

All Stirrup End Distance measurements above are listed in mm (in)

The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M



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Table Prepared by:

100mm (4") Thick
 300mm (12") Deep
 Table No. **L 4-12M**

Opening Width	375mm (15") Lintel Depth																				
	Uniformly Distributed Load																				
	7.0 KN/m (480 lb/ft)	10.5 KN/m (715 lb/ft)	14.0 KN/m (955 lb/ft)	17.5 KN/m (1195 lb/ft)	21.0 KN/m (1435 lb/ft)	24.5 KN/m (1675 lb/ft)	28.0 KN/m (1915 lb/ft)	31.5 KN/m (2155 lb/ft)	35.0 KN/m (2395 lb/ft)	Bottom Reinf. Steel	Stirrup End Dist.	Stirrup End Dist.									
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	406 (16")	406 (16")	406 (16")	406 (16")	1-10M	406 (16")	406 (16")	406 (16")	406 (16")	1-10M	406 (16")
1200mm (4'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	406 (16")	406 (16")	406 (16")	406 (16")	1-10M	406 (16")	406 (16")	406 (16")	406 (16")	1-10M	406 (16")
1500mm (5'-0")	1-10M	0	1-10M	406 (16")	1-10M	406 (16")	1-10M	406 (16")	1-10M	406 (16")	609 (24")	609 (24")	609 (24")	609 (24")	1-10M	609 (24")	609 (24")	609 (24")	609 (24")	1-10M	609 (24")
1800mm (6'-0")	1-10M	406 (16")	1-10M	609 (24")	1-10M	609 (24")	1-10M	609 (24")	1-10M	609 (24")	812 (32")	812 (32")	812 (32")	812 (32")	1-10M	812 (32")	812 (32")	812 (32")	812 (32")	1-15M	812 (32")
2400mm (8'-0")	1-10M	609 (24")	1-15M	812 (32")	1-15M	812 (32")	1-15M	812 (32")	1-15M	812 (32")	1015 (40")	1015 (40")	1015 (40")	1015 (40")	1-10M	1015 (40")	1015 (40")	1015 (40")	1015 (40")	1-20M	1015 (40")
3000mm (10'-0")	1-15M	1015 (40")	1-20M	1218 (48")	1-20M	1218 (48")	1-20M	1218 (48")	1-20M	1218 (48")	1218 (48")	1218 (48")	1218 (48")	1218 (48")	1-15M	1218 (48")	1218 (48")	1218 (48")	1218 (48")	1-20M	1218 (48")
3600mm (12'-0")	1-20M	1218 (48")	2-15M	1421 (56")	1-15M	1624 (64")	1-15M	1624 (64")	1-15M	1624 (64")	1624 (64")	1624 (64")	1624 (64")	1624 (64")	1-20M	1624 (64")	1624 (64")	1624 (64")	1624 (64")	1-15M	1624 (64")
4200mm (14'-0")	2-15M	1624 (64")																			
4800mm (16'-0")																					
5400mm (18'-0")																					
6000mm (20'-0")																					



The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M

All Stirrup End Distance measurements above are listed in mm (in)

NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 203mm (8")

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Table Prepared by:

100mm (4") Thick
 375mm (15") Deep
 Table No. **L 4-15M**

450mm (18") Lintel Depth

Uniformly Distributed Load

Opening Width	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1200mm (4'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1500mm (5'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1800mm (6'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
2400mm (8'-0")	1-10M	508 (20")	1-15M	762 (30")	1-15M	762 (30")	1-15M	1016 (40")	1-15M	1016 (40")	1-15M	1016 (40")	1-15M	1016 (40")	1-15M	1016 (40")	1-15M	1016 (40")
3000mm (10'-0")	1-15M	762 (30")	1-15M	1016 (40")	1-20M	1270 (50")	1-20M	1270 (50")	1-20M	1270 (50")	1-20M	1270 (50")	1-20M	1270 (50")	1-20M	1270 (50")	1-20M	1270 (50")
3600mm (12'-0")	1-15M	1270 (50")	1-20M	1270 (50")	1-20M	1524 (60")	1-20M	1524 (60")	1-20M	1524 (60")	1-20M	1524 (60")	1-20M	1524 (60")	1-20M	1524 (60")	1-20M	1524 (60")
4200mm (14'-0")	1-20M	1524 (60")	1-20M	1778 (70")	2-15M	1778 (70")	2-20M	1778 (70")	2-20M	1778 (70")	2-20M	1778 (70")	2-20M	1778 (70")	2-20M	1778 (70")	2-20M	1778 (70")
4800mm (16'-0")	2-15M	1778 (70")	2-20M	2032 (80")	2-20M	2032 (80")	2-20M	2032 (80")	2-20M	2032 (80")	2-20M	2032 (80")	2-20M	2032 (80")	2-20M	2032 (80")	2-20M	2032 (80")
5400mm (18'-0")	1-15M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")
6000mm (20'-0")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")	1-20M	2032 (80")

The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M



All Stirrup End Distance measurements above are listed in mm (in)

NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 254mm (10")

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Table Prepared by:

100mm (4") Thick
 450mm (18") Deep
 Table No. **L 4-18M**

Opening Width	525mm (21") Lintel Depth																	
	Uniformly Distributed Load																	
	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1200mm (4'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1500mm (5'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1800mm (6'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
2400mm (8'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
3000mm (10'-0")	1-15M	660 (26")	1-15M	990 (39")	1-15M	990 (39")	1-15M	990 (39")	1-15M	990 (39")	1-15M	990 (39")	1-15M	990 (39")	1-15M	990 (39")	1-15M	990 (39")
3600mm (12'-0")	1-15M	990 (39")	1-20M	1320 (52")	1-20M	1320 (52")	1-20M	1320 (52")	1-20M	1320 (52")	1-20M	1320 (52")	1-20M	1320 (52")	1-20M	1320 (52")	1-20M	1320 (52")
4200mm (14'-0")	1-20M	1320 (52")	2-15M	1650 (65")	2-15M	1650 (65")	2-15M	1650 (65")	2-15M	1650 (65")	2-15M	1650 (65")	2-15M	1650 (65")	2-15M	1650 (65")	2-15M	1650 (65")
4800mm (16'-0")	1-20M	1650 (65")	1-15M	1980 (78")	2-20M	1980 (78")	2-20M	1980 (78")	2-20M	1980 (78")	2-20M	1980 (78")	2-20M	1980 (78")	2-20M	1980 (78")	2-20M	1980 (78")
5400mm (18'-0")	2-15M	1980 (78")	2-20M	2310 (91")	2-20M	2310 (91")	2-20M	2310 (91")	2-20M	2310 (91")	2-20M	2310 (91")	2-20M	2310 (91")	2-20M	2310 (91")	2-20M	2310 (91")
6000mm (20'-0")	1-15M	2310 (91")	1-15M	2640 (104")	2-20M	2640 (104")	2-20M	2640 (104")	2-20M	2640 (104")	2-20M	2640 (104")	2-20M	2640 (104")	2-20M	2640 (104")	2-20M	2640 (104")



The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M

All Stirrup End Distance measurements above are listed in mm (in)

NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 330mm (13")

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Table Prepared by:

100mm (4")
Thick
525mm (21")
Deep
Table No. **L 4-21M**

Opening Width	225mm (9") Lintel Depth																
	Uniformly Distributed Load																
	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)
Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	204 (8")	1-10M	204 (8")
1200mm (4'-0")	0	1-10M	0	1-10M	0	1-10M	204 (8")	1-10M	204 (8")	1-15M	306 (12")	1-15M	306 (12")	1-15M	408 (16")	1-15M	408 (16")
1500mm (5'-0")	0	1-10M	0	1-10M	204 (8")	1-15M	306 (12")	1-15M	306 (12")	1-15M	408 (16")	1-20M	510 (20")	1-20M	510 (20")	2-15M	510 (20")
1800mm (6'-0")	0	1-15M	204 (8")	1-15M	306 (12")	1-15M	408 (16")	1-20M	510 (20")	1-20M	612 (24")	1-20M	612 (24")				
2400mm (8'-0")	204 (8")	1-20M	510 (20")	2-15M	612 (24")												
3000mm (10'-0")	510 (20")																
3600mm (12'-0")																	
4200mm (14'-0")																	
4800mm (16'-0")																	
5400mm (18'-0")																	
6000mm (20'-0")																	



NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 102mm (4")

All Stirrup End Distance measurements above are listed in mm (in)

The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M

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Table Prepared by:

150mm (6") Thick
 225mm (9") Deep
 Table No. **L 6-9M**

Opening Width		300mm (12") Lintel Depth																	
		Uniformly Distributed Load																	
		7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	304 (12")	1-10M	304 (12")	1-10M	304 (12")
1200mm (4'-0")	0	1-10M	0	1-10M	304 (12")	1-10M	304 (12")	1-10M	304 (12")	1-10M	304 (12")	1-10M	304 (12")	1-10M	456 (18")	1-15M	456 (18")	1-15M	456 (18")
1500mm (5'-0")	0	1-10M	304 (12")	1-10M	304 (12")	1-10M	456 (18")	1-15M	456 (18")	1-15M	456 (18")	1-15M	608 (24")	1-15M	608 (24")	1-15M	608 (24")	1-20M	608 (24")
1800mm (6'-0")	304 (12")	1-10M	456 (18")	1-10M	456 (18")	1-15M	608 (24")	1-15M	608 (24")	1-15M	608 (24")	1-20M	760 (30")	1-20M	760 (30")	1-20M	760 (30")	2-15M	760 (30")
2400mm (8'-0")	608 (24")	1-15M	760 (30")	1-20M	912 (36")	1-20M	912 (36")	2-15M	1216 (48")	2-15M	1216 (48")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")
3000mm (10'-0")	912 (36")	1-20M	1064 (42")	1-20M	1064 (42")	2-15M	1216 (48")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")
3600mm (12'-0")	1216 (48")	2-15M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")	2-20M	1368 (54")
4200mm (14'-0")	1520 (60")	1-15M	1520 (60")	1-20M	1520 (60")	2-20M	1520 (60")	2-20M	1520 (60")	2-20M	1520 (60")	2-20M	1520 (60")	2-20M	1520 (60")	2-20M	1520 (60")	2-20M	1520 (60")
4800mm (16'-0")																			
5400mm (18'-0")																			
6000mm (20'-0")																			



NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 152mm (6")

All Stirrup End Distance measurements above are listed in mm (in)

The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M



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Table Prepared by:

150mm (6") Thick
 300mm (12") Deep
 Table No. **L 6-12M**

Opening Width		Uniformly Distributed Load																		
		7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)		
Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	
900mm (3'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	406 (16")	406 (16")
1200mm (4'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	406 (16")	1-10M	406 (16")	406 (16")	406 (16")	406 (16")
1500mm (5'-0")	0	1-10M	0	1-10M	0	1-10M	406 (16")	1-15M	406 (16")	1-15M	406 (16")	1-15M	406 (16")	1-15M	406 (16")	1-15M	609 (24")	609 (24")	609 (24")	609 (24")
1800mm (6'-0")	0	1-10M	0	1-15M	406 (16")	1-15M	406 (16")	1-15M	406 (16")	1-15M	406 (16")	1-15M	406 (16")	1-15M	406 (16")	1-15M	609 (24")	812 (32")	812 (32")	812 (32")
2400mm (8'-0")	406 (16")	1-15M	609 (24")	1-15M	609 (24")	1-15M	609 (24")	1-20M	609 (24")	1-20M	609 (24")	1-20M	609 (24")	1-20M	609 (24")	1-20M	609 (24")	812 (32")	1015 (40")	1015 (40")
3000mm (10'-0")	609 (24")	1-15M	1015 (40")	1-20M	1015 (40")	1-20M	1015 (40")	1-20M	1015 (40")	1-20M	1015 (40")	1-20M	1015 (40")	1-20M	1015 (40")	1-20M	1015 (40")	1015 (40")	1015 (40")	1015 (40")
3600mm (12'-0")	1015 (40")	1-20M	1218 (48")	2-15M	1218 (48")	1-15M	1218 (48")	1-20M	1218 (48")	1-20M	1218 (48")	1-20M	1218 (48")	1-20M	1218 (48")	1-20M	1218 (48")	1421 (56")	1421 (56")	1421 (56")
4200mm (14'-0")	1218 (48")	2-15M	1624 (64")	1-15M	1624 (64")	1-10M	1624 (64")	1-20M	1624 (64")	1-20M	1624 (64")	1-20M	1624 (64")	1-20M	1624 (64")	1-20M	1624 (64")	1624 (64")	1624 (64")	1624 (64")
4800mm (16'-0")	1624 (64")	1-15M	1827 (72")	1-10M	1827 (72")	1-20M	1827 (72")	1-20M	1827 (72")	1-20M	1827 (72")	1-20M	1827 (72")	1-20M	1827 (72")	1-20M	1827 (72")	1827 (72")	1827 (72")	1827 (72")
5400mm (18'-0")	1827 (72")	1-10M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M
6000mm (20'-0")	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M



The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M

All Stirrup End Distance measurements above are listed in mm (in)

NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 203mm (8")



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Table Prepared by:

150mm (6") Thick
 375mm (15") Deep
 Table No. **L 6-15M**



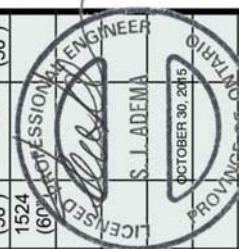
Opening Width		Uniformly Distributed Load																	
		7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1200mm (4'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1500mm (5'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1800mm (6'-0")	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0
2400mm (8'-0")	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0
3000mm (10'-0")	508 (20")	1-15M	762 (30")	1-15M	1016 (40")	1-15M	1270 (50")	1-15M	1524 (60")	1-15M	1778 (70")	1-15M	2032 (80")	1-15M	2286 (90")	1-15M	2540 (100")	1-15M	2794 (110")
3600mm (12'-0")	762 (30")	1-15M	1016 (40")	1-20M	1270 (50")	1-15M	1524 (60")	1-20M	1778 (70")	1-15M	2032 (80")	1-20M	2286 (90")	1-15M	2540 (100")	1-20M	2794 (110")	1-15M	3048 (120")
4200mm (14'-0")	1270 (50")	1-20M	1524 (60")	1-20M	1778 (70")	1-15M	2032 (80")	1-20M	2286 (90")	1-20M	2540 (100")	1-20M	2794 (110")	1-20M	3048 (120")	1-20M	3302 (130")	1-20M	3556 (140")
4800mm (16'-0")	1524 (60")	1-20M	1778 (70")	1-20M	2032 (80")	1-10M	2286 (90")	1-20M	2540 (100")	1-10M	2794 (110")	1-20M	3048 (120")	1-10M	3302 (130")	1-20M	3556 (140")	1-10M	3810 (150")
5400mm (18'-0")	1778 (70")	1-15M	2032 (80")	1-10M	2286 (90")	1-10M	2540 (100")	1-10M	2794 (110")	1-10M	3048 (120")	1-10M	3302 (130")	1-10M	3556 (140")	1-10M	3810 (150")	1-10M	4064 (160")
6000mm (20'-0")	2032 (80")	1-10M	2286 (90")	1-10M	2540 (100")	1-10M	2794 (110")	1-10M	3048 (120")	1-10M	3302 (130")	1-10M	3556 (140")	1-10M	3810 (150")	1-10M	4064 (160")	1-10M	4318 (170")

NOTES:

- This table to be used in conjunction with the general notes and details located at the beginning of this section.
- Stirrup Spacing = 254mm (10")

All Stirrup End Distance measurements above are listed in mm (in)

The following substitutions are permitted:
1-10M + 1-15M may be substituted for 1-20M
2-10M may be substituted for 1-15M



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Table Prepared by:

150mm (6") Thick
450mm (18") Deep
Table No. L 6-18M

525mm (21") Lintel Depth
Uniformly Distributed Load

Opening Width	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1200mm (4'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1500mm (5'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1800mm (6'-0")	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	660 (26")	660 (26")	660 (26")	660 (26")	660 (26")	660 (26")	660 (26")	660 (26")	660 (26")
2400mm (8'-0")	1-10M	0	1-15M	0	1-15M	660 (26")	1-15M	660 (26")	1-15M	660 (26")	1-15M	660 (26")	1-15M	660 (26")	1-15M	660 (26")	1-15M	660 (26")
3000mm (10'-0")	1-15M	0	1-15M	660 (26")	1-15M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-15M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")
3600mm (12'-0")	1-15M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")
4200mm (14'-0")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")
4800mm (16'-0")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")
5400mm (18'-0")	2-15M	660 (26")	2-20M	660 (26")	2-20M	660 (26")	2-20M	660 (26")	2-20M	660 (26")	2-20M	660 (26")	2-20M	660 (26")	2-20M	660 (26")	2-20M	660 (26")
6000mm (20'-0")	1-10M	1980 (78")	1-10M	1980 (78")	1-10M	1980 (78")	1-10M	1980 (78")	1-15M	1980 (78")	1-15M	1980 (78")	1-15M	1980 (78")	1-15M	1980 (78")	1-15M	1980 (78")



NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 330mm (13")

All Stirrup End Distance measurements above are listed in mm (in)

The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 2-20M
 2-10M may be substituted for 1-15M

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Table Prepared by:

150mm (6") Thick
 525mm (21") Deep
 Table No. **L 6-21M**

225mm (9") Lintel Depth
Uniformly Distributed Load

Opening Width	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0	1-15M	0
1200mm (4'-0")	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0
1500mm (5'-0")	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-20M	204 (8")	1-20M	408 (16")	1-20M	408 (16")	1-15M	408 (16")
1800mm (6'-0")	1-15M	0	1-15M	0	1-15M	204 (8")	1-20M	306 (12")	1-20M	612 (24")	1-15M	408 (16")	1-20M	510 (20")	1-15M	612 (24")	1-15M	612 (24")
2400mm (8'-0")	1-15M	0	1-20M	306 (12")	2-15M	510 (20")	1-15M	612 (24")	2-20M	714 (28")								
3000mm (10'-0")	2-15M	204 (8")	1-15M	612 (24")														
3600mm (12'-0")	2-15M	510 (20")																
4200mm (14'-0")																		
4800mm (16'-0")																		
5400mm (18'-0")																		
6000mm (20'-0")																		



NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 102mm (4")

All Stirrup End Distance measurements above are listed in mm (in)

The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M



INTEGRATED BUILDING TECHNOLOGY™
Building Value.

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Table Prepared by:



TACOMA
ENGINEERS

200mm (8")
Thick
225mm (9")
Deep
Table No.
L 8-9M

Opening Width	525mm (21") Lintel Depth																	
	Uniformly Distributed Load																	
	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1200mm (4'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1500mm (5'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0
1800mm (6'-0")	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	660 (26")	660 (26")	1-15M	660 (26")
2400mm (8'-0")	1-10M	0	1-15M	0	1-15M	0	1-15M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	660 (26")	1-20M	990 (39")
3000mm (10'-0")	1-15M	0	1-15M	0	1-20M	660 (26")	1-20M	990 (39")	1-20M	990 (39")	1-20M	990 (39")	2-15M	990 (39")	2-15M	1320 (52")	1-15M	1320 (52")
3600mm (12'-0")	1-15M	0	1-20M	660 (26")	1-20M	990 (39")	2-15M	990 (39")	2-15M	1320 (52")	1-15M	1320 (52")	2-20M	1320 (52")	2-20M	1650 (65")	1-10M	1650 (65")
4200mm (14'-0")	1-20M	660 (26")	2-15M	990 (39")	2-15M	1320 (52")	1-15M	1320 (52")	1-15M	1650 (65")	1-10M	1650 (65")	2-20M	1650 (65")	3-20M	1650 (65")	1-10M	1980 (78")
4800mm (16'-0")	2-15M	990 (39")	1-15M	1320 (52")	2-20M	1650 (65")	2-20M	1650 (65")	2-20M	1980 (78")	1-15M	1980 (78")	3-20M	1980 (78")				
5400mm (18'-0")	2-15M	1320 (52")	2-20M	1650 (65")	1-10M	1980 (78")	3-20M	1980 (78")										
6000mm (20'-0")	1-15M	1650 (65")	1-10M	1980 (78")	3-20M	2310 (91")												

NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 330mm (13")

All Stirrup End Distance measurements above are listed in mm (in)

The following substitutions are permitted:
 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M



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Table Prepared by:

200mm (8") Thick
 525mm (21") Deep
 Table No. L 8-21M

Opening Width		600mm (24") Lintel Depth																	
		Uniformly Distributed Load																	
		7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1200mm (4'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1500mm (5'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-15M	0
1800mm (6'-0")	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0	1-15M	0
2400mm (8'-0")	0	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-20M	760 (30")	1-20M	760 (30")
3000mm (10'-0")	0	1-15M	0	1-15M	0	1-20M	0	1-20M	0	1-20M	760 (30")	1-20M	760 (30")	1-20M	1140 (45")	1-20M	1140 (45")	2-15M	1140 (45")
3600mm (12'-0")	0	1-20M	0	1-20M	760 (30")	1-20M	760 (30")	1-20M	760 (30")	1-20M	1140 (45")	1-20M	1140 (45")	1-15M	1520 (60")	1-15M	1520 (60")	2-20M	1520 (60")
4200mm (14'-0")	0	1-20M	0	1-20M	1140 (45")	1-20M	1140 (45")	1-15M	1520 (60")	1-15M	1520 (60")	1-15M	1520 (60")	1-10M	1900 (75")	1-10M	1900 (75")	2-20M	1900 (75")
4800mm (16'-0")	760 (30")	1-20M	760 (30")	1-15M	1520 (60")	1-20M	1520 (60")	1-20M	1520 (60")	1-10M	1900 (75")	1-10M	1900 (75")	1-10M	1900 (75")	1-10M	1900 (75")	2-20M	1900 (75")
5400mm (18'-0")	1140 (45")	1-15M	1520 (60")	1-20M	1900 (75")	1-20M	1900 (75")	1-10M	1900 (75")	1-10M	1900 (75")	1-10M	1900 (75")	1-10M	1900 (75")	1-10M	1900 (75")	2-20M	1900 (75")
6000mm (20'-0")	1520 (60")	1-15M	1900 (75")	1-20M	1900 (75")	1-15M	1900 (75")	1-10M	1900 (75")	1-10M	1900 (75")	1-10M	1900 (75")	1-10M	1900 (75")	1-10M	1900 (75")	2-20M	1900 (75")



The following stirrup end distance measurements above are listed in mm (in)
 1-10M + 1-15M may be substituted for 1-15M
 2-10M may be substituted for 1-15M

All Stirrup End Distance measurements above are listed in mm (in)

- NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 380mm (15")

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Table Prepared by:

200mm (8") Thick
 600mm (24") Deep
 Table No. **L 8-24M**

225mm (9") Lintel Depth
Uniformly Distributed Load

Opening Width	7.0 KN/m (480 lb/ft)			10.5 KN/m (715 lb/ft)			14.0 KN/m (955 lb/ft)			17.5 KN/m (1195 lb/ft)			21.0 KN/m (1435 lb/ft)			24.5 KN/m (1675 lb/ft)			28.0 KN/m (1915 lb/ft)			31.5 KN/m (2155 lb/ft)			35.0 KN/m (2395 lb/ft)		
	Bottom Reinf. Steel	Stirrup End Dist.	Stirrup Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Stirrup Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Stirrup Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Stirrup Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Stirrup Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Stirrup Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Stirrup Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Stirrup Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Stirrup Dist.
900mm (3'-0")	1-10M	0	0	1-10M	0	0	1-10M	0	0	1-10M	0	0	1-10M	0	0	1-10M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0
1200mm (4'-0")	1-10M	0	0	1-10M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0
1500mm (5'-0")	1-10M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-20M	0	0
1800mm (6'-0")	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0
2400mm (8'-0")	1-15M	0	0	1-20M	0	0	2-15M	306 (12")	612 (24")	1-15M	408 (16")	1-20M	2-20M	612 (24")	612 (24")	2-20M	612 (24")	612 (24")	2-15M	306 (12")	408 (16")	1-15M	306 (12")	408 (16")	1-15M	306 (12")	408 (16")
3000mm (10'-0")	2-15M	0	0	1-15M	306 (12")	612 (24")	1-10M	612 (24")	2-20M	612 (24")	1-10M	612 (24")	1-10M	612 (24")	1-10M	612 (24")	1-10M	612 (24")	1-10M	612 (24")	1-10M	612 (24")	1-10M	612 (24")	1-10M	612 (24")	1-10M
3600mm (12'-0")	1-15M	204 (8")	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0	1-15M	0	0
4200mm (14'-0")	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0
4800mm (16'-0")	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0
5400mm (18'-0")	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0
6000mm (20'-0")	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0	1-20M	0	0



NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 102mm (4")

All Stirrup End Distance measurements above are listed in mm (in)

The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M

Table Prepared by:
TACOMA
 ENGINEERS
 Table No. **L 10-9M**



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Opening Width	375mm (15") Lintel Depth																	
	Uniformly Distributed Load																	
	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1200mm (4'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0	1-15M	406 (16")
1500mm (5'-0")	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	406 (16")	1-15M	406 (16")	1-15M	406 (16")
1800mm (6'-0")	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	406 (16")	1-15M	406 (16")	1-15M	609 (24")	1-15M	609 (24")	1-20M	609 (24")
2400mm (8'-0")	1-15M	0	1-15M	0	1-15M	406 (16")	1-15M	609 (24")	1-20M	609 (24")	1-20M	812 (32")	1-15M	812 (32")	2-15M	812 (32")	1-15M	1015 (40")
3000mm (10'-0")	1-15M	0	1-20M	609 (24")	1-20M	812 (32")	1-20M	812 (32")	1-15M	1015 (40")	1-20M	1015 (40")	1-15M	1015 (40")	2-20M	1218 (48")	1-10M	1218 (48")
3600mm (12'-0")	1-20M	406 (16")	2-15M	812 (32")	1-15M	1015 (40")	1-20M	1218 (48")	1-10M	1218 (48")	1-15M	1421 (56")	1-15M	1421 (56")	1-10M	1421 (56")	1-15M	1421 (56")
4200mm (14'-0")	2-15M	812 (32")	1-15M	1218 (48")	2-20M	1421 (56")	1-15M	1421 (56")	1-15M	1624 (64")	3-20M	1624 (64")						
4800mm (16'-0")	1-15M	1015 (40")	1-20M	1421 (56")	3-20M	1827 (72")												
5400mm (18'-0")	1-10M	1421 (56")	3-20M															
6000mm (20'-0")	2-20M																	

NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 203mm (8")

All Stirrup End Distance measurements above are listed in mm (in)

The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M



Table Prepared by:

250mm (10") Thick
 375mm (15") Deep
 Table No. L 10-15M

450mm (18") Lintel Depth
Uniformly Distributed Load

Opening Width	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1200mm (4'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-15M	0
1500mm (5'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	508 (20")
1800mm (6'-0")	1-10M	0	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-20M	508 (20")	1-20M	508 (20")
2400mm (8'-0")	1-15M	0	1-15M	0	1-15M	0	1-15M	0	508 (20")	762 (30")	1-20M	762 (30")	1-20M	762 (30")	1-20M	762 (30")	2-15M	762 (30")
3000mm (10'-0")	1-15M	0	1-20M	0	1-20M	0	1-20M	508 (20")	762 (30")	1016 (40")	1-20M	762 (30")	1-15M	1016 (40")	1-15M	1016 (40")	2-20M	1270 (50")
3600mm (12'-0")	1-20M	0	1-20M	762 (30")	1-20M	762 (30")	1-15M	1016 (40")	1016 (40")	1-20M	1270 (50")	1-20M	1270 (50")	1-10M	1270 (50")	1-15M	1524 (60")	1524 (60")
4200mm (14'-0")	1-20M	508 (20")	2-15M	1016 (40")	1-15M	1270 (50")	1-15M	1270 (50")	1270 (50")	1-10M	1524 (60")	1-15M	1524 (60")	1-10M	1778 (70")	1-15M	1778 (70")	1778 (70")
4800mm (16'-0")	2-15M	762 (30")	1-15M	1270 (50")	1-10M	1524 (60")	1-15M	1778 (70")	1778 (70")	1-10M	1778 (70")	1-10M	1778 (70")	1-10M	1778 (70")	1-10M	1778 (70")	1778 (70")
5400mm (18'-0")	1-15M	1270 (50")	1-10M	1524 (60")	1-10M	1524 (60")	1-10M	1524 (60")	1778 (70")	1778 (70")	1-10M	1778 (70")	1-10M	1778 (70")	1-10M	1778 (70")	1-10M	1778 (70")
6000mm (20'-0")	1-10M	1524 (60")	1-10M	1524 (60")	1-10M	1524 (60")	1-10M	1524 (60")	1778 (70")	1778 (70")	1-10M	1778 (70")	1-10M	1778 (70")	1-10M	1778 (70")	1-10M	1778 (70")

NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 254mm (10")

All Stirrup End Distance measurements above are listed in mm (in)



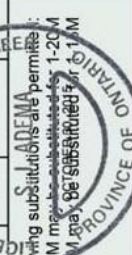
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Table Prepared by:

250mm (10") Thick
 450mm (18") Deep
 Table No. **L 10-18M**

The following substitutions are permitted:
 1-10M + 1-15M may be substituted for 1-20M
 2-10M may be substituted for 1-15M

Opening Width	600mm (24") Lintel Depth																	
	Uniformly Distributed Load																	
	7.0 KN/m (480 lb/ft)		10.5 KN/m (715 lb/ft)		14.0 KN/m (955 lb/ft)		17.5 KN/m (1195 lb/ft)		21.0 KN/m (1435 lb/ft)		24.5 KN/m (1675 lb/ft)		28.0 KN/m (1915 lb/ft)		31.5 KN/m (2155 lb/ft)		35.0 KN/m (2395 lb/ft)	
	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.	Bottom Reinf. Steel	Stirrup End Dist.
900mm (3'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1200mm (4'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0
1500mm (5'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0
1800mm (6'-0")	1-10M	0	1-10M	0	1-10M	0	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0	1-15M	0
2400mm (8'-0")	1-10M	0	1-15M	0	1-15M	0	1-15M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0
3000mm (10'-0")	1-15M	0	1-15M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0
3600mm (12'-0")	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0
4200mm (14'-0")	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0
4800mm (16'-0")	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0	1-20M	0
5400mm (18'-0")	1-15M	760 (30")	1-20M	1140 (45")	1-20M	1520 (60")	1-15M	1140 (45")	1-15M	1520 (60")	1-10M	1140 (45")	1-10M	1520 (60")	1-10M	1520 (60")	1-15M	1900 (75")
6000mm (20'-0")	1-15M	1140 (45")	1-15M	1520 (60")	1-15M	1900 (75")	1-15M	1520 (60")	1-15M	1900 (75")	1-15M	1900 (75")	1-15M	1900 (75")	1-15M	1900 (75")	1-15M	1900 (75")



The following substitutions are permitted:
 1-10M + 1-11M may be substituted for 1-20M
 2-10M may be substituted for 1-11M

All Stirrup End Distance measurements above are listed in mm (in)

- NOTES:
 1. This table to be used in conjunction with the general notes and details located at the beginning of this section.
 2. Stirrup Spacing = 380mm (15")

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Table Prepared by:

250mm (10") Thick
 600mm (24") Deep
 Table No. **L 10-24M**