

E. ENGINEERING DESIGN TABLES

The tables on the following pages have been prepared to assist you with the steel reinforcement design of your PolySteel walls. They have been developed to include a broad range of applications and will apply to most, if not all, of the walls you are likely to encounter in your project. These tables have been designed in accordance with the American Concrete Institute's Requirements for Structural Concrete (ACI 318), the *Prescriptive Method for Insulating Concrete Forms in Residential Construction*, and all the applicable codes, and are an integral part of the code recognition of PolySteel Forms. IF YOUR PROJECT HAS DESIGN PARAMETERS THAT FALL OUTSIDE OF THESE TABLES, YOU SHOULD ASK YOUR POLYSTEEL DEALER IF ADDITIONAL TABLES ARE AVAILABLE OR USE A LICENSED PROFESSIONAL ENGINEER TO ASSIST YOU. Your local PolySteel Dealer can give you a referral for such a professional and has tools and support information to assist your engineer in designing with PolySteel Forms.

READ THESE TABLES CAREFULLY
AND COMPLETELY

LIST OF ENGINEERING DESIGN TABLES

FOOTINGS

TABLE A-4000-1: MINIMUM CONCRETE FOOTING SIZES – RESIDENTIAL

BASEMENTS

TABLE B-4600-1: 8-FOOT HIGH BASEMENT WALL (*Grade 40*)

TABLE B-4600-2: 9-FOOT HIGH BASEMENT WALL (*Grade 40*)

TABLE B-4600-3: 10-FOOT HIGH BASEMENT WALL (*Grade 40*)

TABLE B-4600-4: 8-FOOT HIGH BASEMENT WALL (*Grade 60*)

TABLE B-4600-5: 9-FOOT HIGH BASEMENT WALL (*Grade 60*)

TABLE B-4600-6: 10-FOOT HIGH BASEMENT WALL (*Grade 60*)

TABLE B-4600-7: TALL BASEMENT WALLS W/ OFFSET REBAR
(*Grade 60, d = 4-1/2"*)

TABLE B-4800-1: 8-FOOT HIGH BASEMENT WALL (*Grade 40*)

TABLE B-4800-2: 9-FOOT HIGH BASEMENT WALL (*Grade 40*)

TABLE B-4800-3: 10-FOOT HIGH BASEMENT WALL (*Grade 40*)

TABLE B-4800-4: 8-FOOT HIGH BASEMENT WALL (*Grade 60*)

TABLE B-4800-5: 9-FOOT HIGH BASEMENT WALL (*Grade 60*)

TABLE B-4800-6: 10-FOOT HIGH BASEMENT WALL (*Grade 60*)

TABLE B-4800-7: TALL BASEMENT WALLS (*Grade 60*)

TABLE B-4800-8: TALL BASEMENT WALLS (*Grade 60, f_c = 4,000 psi*)

TABLE B-4800-9: TALL BASEMENT WALLS W/ OFFSET REBAR
(*Grade 60, f_c = 4,000 psi, d = 6-1/2"*)

CRAWLSPACE WALLS

TABLE C-4000-1: VERTICAL REINFORCEMENT OF CRAWLSPACE WALLS

RESIDENTIAL ABOVE GRADE WALLS

TABLE D-1: REINFORCEMENT REQUIREMENTS FOR ABOVE GRADE WALLS (*Grade 40*)

TABLE D-2: REINFORCEMENT REQUIREMENTS FOR ABOVE GRADE WALLS (*Grade 60*)

LIST OF ENGINEERING DESIGN TABLES

TALL WALLS

- TABLE E-1: TALL WALL TABLE – 6" NON-LOAD BEARING WALL
- TABLE E-2: TALL WALL TABLE – 6" WITH ROOF ECCENTRICITY = 0 INCHES
- TABLE E-3: TALL WALL TABLE – 6" WITH ROOF ECCENTRICITY = 7 INCHES
- TABLE E-4: TALL WALL TABLE – 8" NON-LOAD BEARING WALL
- TABLE E-5: TALL WALL TABLE – 8" WITH ROOF ECCENTRICITY = 0 INCHES
- TABLE E-6: TALL WALL TABLE – 8" WITH ROOF ECCENTRICITY = 7 INCHES

LINTELS

- TABLE F-1: 6" WALL - 8" DEEP LINTEL
- TABLE F-2: 6" WALL - 12" DEEP LINTEL
- TABLE F-3: 6" WALL - 16" DEEP LINTEL
- TABLE F-4: 6" WALL - 20" DEEP LINTEL
- TABLE F-5: 6" WALL - 24" DEEP LINTEL
- TABLE F-6: 6" WALL - 36" DEEP LINTEL
- TABLE F-7: 6" WALL - 48" DEEP LINTEL
- TABLE F-8: 8" WALL - 8" DEEP LINTEL
- TABLE F-9: 8" WALL - 12" DEEP LINTEL
- TABLE F-10: 8" WALL - 16" DEEP LINTEL
- TABLE F-11: 8" WALL - 20" DEEP LINTEL
- TABLE F-12: 8" WALL - 24" DEEP LINTEL
- TABLE F-13: 8" WALL - 36" DEEP LINTEL
- TABLE F-14: 8" WALL - 48" DEEP LINTEL

RETAINING WALLS

- TABLE G-1: RETAINING WALL SECTION AND REBAR TABLE