ABOUT

Structuraldetails store offers a large number of structural CAD detailed drawings covering a wide variety of necessary construction details to start and finish a project in no time.

The idea is simple. Use ready made solutions instead of starting from scratch and save valuable time.
MARKET GAP

Few, if any, online CAD digital libraries offer ready CAD detailed drawings, put together all in one place, ready to be used in any project.

CUSTOMERS

Designers spend hours creating new details for projects. For every new drawing, time is needed for researching, problem solving and adjusting to specific situation.

FINANCIALS

Time spent on each design translates into loss of income

UNCERTAINTY

Doing something for the first time is always difficult and surely creates uncertainty of the final outcome

PROBLEM
SOLUTION

CLOSE THE GAP
Our product makes your work easier, and no other library on the market offers the same features and variety.

TARGET AUDIENCE
Anyone in the business of preparing structural drawings, either for school projects or construction.

COST SAVINGS
Reduce time spent on each design by 70% thus saving on time.

EASY TO USE
All files are delivered instantly in CAD format for immediate use. Fully compatible and customizable with any CAD software.
PRODUCT OVERVIEW

UNIQUE
Largest library of structural detail drawings all put together in one place in .dwg and .dxf formats.

LARGE VARIETY
Covers all construction trades. Library includes drawings for reinforced concrete, steel frame and timber frame designs.

TESTED
Taken from real life projects.

AUTHENTIC
Designed by experts in the field of construction.
DRAWING SAMPLES

Below is small sample of the drawings included in structuraldetails library to showcase the quality of each drawing.
ELEVATOR SHAFT PIT FOUNDATION
REINFORCEMENT DETAIL

reinforced concrete details
**STEPPED REINFORCED CONCRETE FOUNDATION FOOTINGS DETAIL**

- **H = FOUNDATION DEPTH**
- **a = STIRRUPS SPACING IN CRITICAL LENGTH (both beam and column)**
- **b = STIRRUPS SPACING OUTSIDE CRITICAL LENGTH (both beam and column)**
- **d = COLUMN'S MAIN REINFORCEMENT BAR DIAMETER**

**CONCRETE C15**

- **FLOOR SLAB 15cm min.**
- **CONCRETE COLUMN**
  - **REINFORCEMENT STIRRUPS (TIES)**
  - **min. 40d**

**CRUSHED AGGREGATES 100 200 min.**

**NAYLON gauge1000**

**LEVELING CONCRETE min. 100mm**

**WATER INSULATING MEMBRANE BARRIER**

**FOOTING WIDTH - according to design**

**COMPACTED FOUNDATION LEVEL**

**REINFORCED CONCRETE COLUMN**
  - **MAIN REINFORCEMENT BARS**
  - **CONCRETE COLUMN REINFORCEMENT STIRRUPS (TIES)**

**GROUND CONNECTING CONCRETE BEAM**
  - **BOTH DIRECTIONS - CONNECTIONS BETWEEN ADJACENT FOOTING TO ACCOUNT FOR DIFFERENTIAL SETTLING 500mm min.**
  - **ground beam height**

**GROUND CONNECTING BEAM**
  - **REINFORCEMENT STIRRUPS (TIES)**
  - **REINFORCEMENT**

**GROUND BEAM KNEE WALL SUPPORT**
  - **VERTICAL REINFORCEMENT ON BOTH SIDES OF GROUND BEAM FACES 12mm vertical bars @ 150mm c-t-c**
  - **8mm horizontal bars @ 200mm c-t-c**
STEEL COLUMN FOOTING FOUNDATION DETAIL

- **Steel Column Details**
  - **Steel Column Stiffener Plates**
    - Thickness & welding according to design
  - **Steel Column Baseplate**
    - Thickness & column welding according to design
  - **High Strength Concrete Grouting**

- **Concrete Details**
  - **Concrete C15**
  - **Floor Slab 15cm min.**
  - **Concrete C20/25**
  - **Crushed Aggregates**
    - 100 200 min.
  - **Nylon Gauge 1000**
  - **500mm min.**
  - **Steel Column**
  - Thickness of plates & welding according to design

- **Anchor Bolts**
  - Full thread anchor bolts
  - Grade & diameter according to design
  - Anker bolts placed inside per reinforcement
  - Per column reinforcement according to design
  - Per stance
  - Anchor bolts placed inside per reinforcement
  - Per column reinforcement according to design

- **Leveling and Positioning**
  - **Leveling Concrete**
    - Min. 100mm
  - **Water Insulating Membrane**
  - **Footing Bottom Reinforcement Mesh**
  - **Footing Top Reinforcement Mesh**
  - **Footing Width**
    - According to design
  - **Footing Depth**
    - According to design
  - **Concrete Foundation Level**
  - **Compacted Foundation Level**
  - **Footing Bottom Reinforcement Mesh**
  - **Design**
  - **Pier Column Reinforcement**
    - According to design
  - **Reinforcement Ties**
    - Max. distance 10cm
  - **Footing Bottom**
    - Reinforcement Mesh
  - **Footing Top**
    - Reinforcement Mesh
  - **Concrete Column Pier**
    - Size and reinforcement according to design - height to match anchorage requirements and ground beam height
  - **Anchorage Requirement - Ground Beam Height**
  - **Footing Top Reinforcement Mesh**
  - **Footing Bottom Reinforcement Mesh**
  - **Leveling Concrete**
    - Min. 100mm
  - **Water Insulating Membrane**
  - **Footing Width**
    - According to design

- **Design**
  - **Concrete C15**
  - **Crushed Aggregates**
  - **Shear and Design**
  - **Grade**
  - **Deformation**
  - **Positioning & Leveling**
  - **Baseplate - To Be Removed Before Column Baseplate Installed**
  - **Anchoring**
  - **Tightening Bolt Nuts**
  - **Leveling Bolt Nuts**
  - **Thin Positioning & Leveling Baseplates**
    - To be removed before column baseplates installed

- **General**
  - **Design**
  - **Pier Column Reinforcement**
    - According to design
  - **Reinforcement Ties**
    - Max. distance 10cm
  - **Footing Bottom**
    - Reinforcement Mesh
  - **Footing Top**
    - Reinforcement Mesh
  - **Concrete Column Pier**
    - Size and reinforcement according to design - height to match anchorage requirements and ground beam height
  - **Anchorage Requirement - Ground Beam Height**
  - **Pier Column Reinforcement**
    - According to design
  - **Reinforcement Ties**
    - Max. distance 10cm
  - **Footing Top Reinforcement Mesh**
  - **Footing Bottom Reinforcement Mesh**
  - **Leveling Concrete**
    - Min. 100mm
  - **Water Insulating Membrane**
  - **Footing Width**
    - According to design
  - **Footing Depth**
    - According to design
  - **Concrete Foundation Level**
  - **Compacted Foundation Level**
  - **Footing Bottom Reinforcement Mesh**
  - **Design**
  - **Concrete C15**
  - **Crushed Aggregates**
  - **Shear and Design**
  - **Grade**
  - **Deformation**
  - **Positioning & Leveling**
  - **Baseplate - To Be Removed Before Column Baseplate Installed**
  - **Anchoring**
  - **Tightening Bolt Nuts**
  - **Leveling Bolt Nuts**
  - **Thin Positioning & Leveling Baseplates**
    - To be removed before column baseplates installed
REDUCED SIZE STEEL COLUMN BOLTED SPLICE CONNECTION

- **Steel Frame Details**

  - **Steel Column Details**
    - Reduced Size (i.e. HEB240)
    - Larger Size (i.e. HEB260)
  
  - **Bolts Details**
    - Grade 8.8
    - Number & Size according to design codes symmetrically on top & bottom of splice connection
  
  - **Flange Splice Plate**
    - Same width as top column flange
    - Thickness same or larger than bottom column's flange
  
  - **Web Splice Plate**
    - Width according to column clear web
    - Thickness same or larger than column's web
  
  - **Clear Spacing**
    - According to design codes and specs (usually 2.5d - d = bolt diameter)
  
  - **Fill-in Plate**
    - 10mm thick to accommodate width change
    - Fillet weld to top column flange
  
  - **Bottom Steel Column**
    - Larger Size (i.e. HEB260)
VERTICAL DIAGONAL CHS X BRACING CENTER
CONNECTION DETAIL

20mm THICK 8-sided POLYGON CONNECTION PLATE
4x26mm BOLT HOLE

10mm PLATE STIFFENERS - FILLET WELD 6mm ALL AROUND

16mm THICK CIRCULAR ENDPLATE - DIAMETER 200mm
FILLET WELD 10mm TO CIRCULAR ENDPLATE, 2x24mm BOLT GR.8.8

TWO 16mm THICK PLATES, FILLET WELD 8mm TO CIRCULAR ENDPLATE, 2x24mm BOLT GR.8.8

16mm THICK CIRCULAR ENDPLATE - DIAMETER 200mm
FILLET WELD 10mm TO CIRCULAR ENDPLATE, 2x24mm BOLT GR.8.8

VERTICAL DIAGONAL X BRACING
i.e. CHS 139.7x6.3mm ELEMENT
16mm THICK CIRCULAR ENDPLATE - DIAMETER 200mm
FILLET WELD 10mm TO CIRCULAR ENDPLATE, 2x24mm BOLT GR.8.8

10mm PLATE STIFFENERS - FILLET WELD 6mm ALL AROUND

VERTICAL DIAGONAL X BRACING
i.e. CHS 139.7x6.3mm ELEMENT

16mm THICK CIRCULAR ENDPLATE - DIAMETER 200mm
FILLET WELD 10mm TO CIRCULAR ENDPLATE, 2x24mm BOLT GR.8.8

10mm PLATE STIFFENERS - FILLET WELD 6mm ALL AROUND
THANK YOU

Here’s a € 5.00 discount coupon to get you started

Coupon Code: GETSTARTED

Use coupon code above during checkout