

# Footing design report

## Inputs

```
{  
    "Pu_kN": 300.0,  
    "col_b_mm": 300.0,  
    "col_d_mm": 300.0,  
    "soil_allow_kN_per_m2": 150.0,  
    "pad_depth_mm": 400.0,  
    "fc_MPa": 25.0,  
    "fy_MPa": 415.0,  
    "eccentricity_x_m": 0.0,  
    "eccentricity_y_m": 0.0,  
    "assumed_side_m": null  
}
```

## Results

```
{  
    "A_req_m2": 2.0,  
    "side_m": 1.414,  
    "A_used_m2": 2.0,  
    "eccentricity_m": 0,  
    "ecc_effect_factor": 1.0,  
    "A_final_m2": 2.0,  
    "pad_depth_mm": 400.0,  
    "As_req_mm2": 6000.0,  
    "bar_dia_mm": 10,  
    "n_bars": 77,  
    "notes": {  
        "method": "prototype/simple bearing area -> square pad -> crude rein-  
    }  
}
```