

SLAB DESIGN REPORT

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Inputs

```
{  
    "span_m": 3.0,  
    "thickness_mm": 150.0,  
    "dl_kN_per_m2": 5.0,  
    "ll_kN_per_m2": 3.0,  
    "fc_MPa": 30.0,  
    "fy_MPa": 420.0,  
    "cover_mm": 20.0,  
    "bar_dia_mm": 10.0  
}
```

Results

```
{  
    "Mu_kNm": 12.15,  
    "effective_depth_mm": 125.0,  
    "required_As_mm2_per_m": 295.567,  
    "provided_As_mm2_per_m": 295.262,  
    "bar_dia_mm": 10,  
    "spacing_mm": 266,  
    "utilization_percent": 100.1,  
    "notes": {  
        "w_u_kN_per_m2": 10.8,  
        "Mu_kNm_per_m": 12.15,  
        "As_req_mm2_per_m_raw": 295.567,  
        "As_min_mm2_per_m": 225.0,  
        "raw_spacing_mm": 265.73  
    }  
}
```

Generated by slab_aci.py (simple ACI one-way slab design)