

Management of building construction

A. Architects

The number of licensed architects is 3,252, and 3,222 of them are Class A architects; in addition, the number of Class B architects (licensed according to Article 53 of the Architects Act) is 30. Taipei City has the most architects: 1,121 people; 474 in Taipei County, 398 in Taichung City, 266 in Kaoshiung City, 150 in Taoyuan City and 140 in Tainan City, 78.4% of all licensed architects.

B. Construction management

According to the Construction Industry Law, construction is divided into comprehensive construction enterprises and specialized construction enterprises and construction projects by contracts. Comprehensive construction enterprises are categorized into three groups: A grade, B grade and C grade. By the end of 2006, the number of construction companies was 13,706. There were 6,124 companies of C grade comprehensive construction enterprises (44.7%), 4,471 company of construction projects by contracts (32.6%), 1,665 A grade comprehensive construction enterprises (12.1%), 1,300 B grade comprehensive construction enterprises (9.5%) and 146 companies of specialized construction enterprise (1.1%).

The capital of the whole construction was 451,540 million dollars; A grade comprehensive construction had 55.0% of the whole capital, specialized construction enterprises had 32.9% and construction projects by contracts had the least -- 1.0%.

In terms of construction companies' average capital, the average amount for each company was 32,940,000 dollars. The highest average capital of companies was in Kaoshiung City, with the amount of 144,660,000 dollars; 143,780,000 dollars in Taipei City, 32,260,000 dollars in Kaoshiung County, 24,370,000 dollars in Taichung City and 19,980,000 dollars in Taoyuan County.

C. Safety inspection in lifting equipment of buildings

There were 6 institutions of safety inspection in lifting equipment of buildings, including 5 in Taipei City and 1 in Kaoshiung City and 367 specialized companies. Taipei City had the most specialized companies – 94 (25.6%), followed by 70 companies in Taipei County (19.1%) and 38 companies in

Kaoshiung City (10.4%). There were 5,976 professional technicians; 3,704 in Taipei City (62.0%), 686 in Taipei County (11.5%) and 320 in Kaoshiung City (5.4%).

The case number of the inspected lifting equipments were 127,695 and 127,683 lifting equipments were qualified (99.99%). The cities and counties which had over ten thousand inspected lifting equipments were: 26,713 in Taipei City (20.9%), 25,721 in Taipei County (20.1%), 13,069 in Taoyuan (10.2%), 12,630 in Taichung City (9.9%) and 12,448 in Kaoshiung City (9.7%); in addition, the five counties and cities had 70.9% of the inspected amount.

D. Safety inspection in mechanical recreation facilities

By the end of 2006, the number of recreation center was 40; 33 were in business and 7 had been suspended. The number of mechanical recreation facilities was 295; 202 were still running and 93 were suspended. Among all recreation facilities, 193 were licensed, 202 had records of maintenance and 202 had regular safety inspection.

E. Safety inspectors of buildings

The number of safety inspectors of fire prevention facilities in buildings was 2,540 and the number of safety equipment inspectors was 2,440. Architects had the highest number among all – 1,793 and 1,787 respectively; followed by 119 electrical technicians and 108 construction technician. The numbers of architects, electrical technicians and construction technician had increased; however, the numbers air-condition technicians and other inspectors had decreased compared with those of last year.

F. Building interior construction

There were 3,314 building interior construction companies by the end of 2006; 2,956 design construction factories (89.2%) and 340 construction factories (10.3%). Taipei City had the most companies – 1,465 (44.2%), followed by 456 in Taipei County (13.8%) and 331 in Kaoshiung City (10.0%). There were 10,164 construction specialists; 8,667 of professional design construction specialists (85.3%) and 1,357 professional construction specialists (13.4%).

G. Parking spaces in the buildings

There were 2,407,592 parking spaces in the buildings by the end of 2006; 5,119 for large vehicles (0.2%), 2,118,377 for automobiles (88.0%), 284,096 for motorcycles (10.9%). 1,562,366 parking spaces in Taiwan Province (64.9%), 646,949 in Taipei City (26.9%) and 196,488 in Kaoshiung City (8.2%). In Taiwan Province, Taoyuan County had 302,138 parking spaces (12.5%), Taipei County had 294,053 (12.2%) and Taichung City had 162,093 (6.7%). The number of parking spaces in the urban development project areas was 2,164,044 (90.0%) and 241,548 (10.0%) parking spaces for in non-urban development project areas.

H. Issue of Construction Licenses

1. 35,184 Construction Licenses were issued in 2006 and compared with last year's figure, the number decreased 19.7%. The total floor area was 36,664,000 square meters, which decreased 15.1%.
2. Taipei County, which had 7,182,000 square meters (19.6%), had the most total floor area; followed by 4,118,000 square meters (11.2%) in Taoyuan County and 3,208,000 square meters (8.7%) in Taipei City. In comparison with last year's figures, the total floor area increased the most in Yunlin County (27.5%), followed by Taipei County (25.9%) and Tainan County (23.1%). The total floor area decreased in the following city and counties: Kaoshiung City (74.6%), Lienchiang County (74.0%) and Hualian County (30.5%).
3. In terms of the usages, Housing (H-2) had 19,738,000 square meters (53.8%), Industry and Warehousing (C) had 7,031,000 square meters (19.2%) and Business and Service (G) had 2,991,000 square meters (8.2%).
4. In terms of the structures, 28,169,000 square meters were concrete construction, including steel concrete construction (76.8%), 4,237,000 square meters were steel construction (11.6%) and 3,982,000 square meters were steel reinforce concrete construction (10.9%).

I. Issue of Usage Licenses

1. 37,978 Usage Licenses were issued in 2006, which increased 7.7% compared with last year's figure; the total floor area was 36,202,000

square meters (increased 16.7%), and the Usage Licenses and total floor area reached the highest numbers in the past seven years.

2. Taoyuan County had the most construction area: 5,439,000 square meters (15.0%), followed by 4,710,000 square meters in Taipei County (13.0%) and 3,291,000 square meters in Kaoshiung City (9.1%). In comparison with last year's figures, Keelung City increased 232.1% total floor area, followed by Yunlin County (96.2%) and Penghu County (83.0%); however, the total floor area decreased in the following counties: Lienchiang County (93.2%), Kinmen County (45.3%) and Hsinchu City (35.1%).
3. In terms of the usages, Housing (H-2) had 20,803,000 square meters (57.5%), Industry and Warehousing (C) had 5,658,000 square meters (15.6%) and Mercantile (B) had 2,970,000 square meters (8.2%).
4. In terms of the structures, 30,001,000 square meters were concrete construction, including steel concrete construction (82.9%), 3,185,000 square meters were steel construction (8.8%) and 2,756,000 square meters were steel reinforce concrete construction (7.6%).
5. As for the height, compared to last years' figures, the total floor area of buildings from 75-90 meters increased the most: 413.7%; followed by 64.3% of buildings over 90 meters and 25.5% of buildings from 45-60 meters. The buildings of 7 meters below decreased 10.8%; it was the only section which decreased.
6. In terms of the analysis of buildings of 15 stories or above, the total floor area of buildings of 15 stories or above was 4,285,000 square meters in 2006, which was 11.8% of the whole area (36,202,000 square meters) and increased more than one time compared with last years' figure due to the magnificent increasing in Taipei County, Taoyuan County and Kaoshiung City. Taipei County, which had 1,331,000 square meters, had the most total floor area; followed by 1,212,000 square meters in Kaoshiung, 677,000 square meters in Taoyuan County, 669,000 square meters in Taichung City, 265,000 square meters in Taipei City, 93,000 square meters in Hsinchu County, 32,000 square meters in Taichung City and 7,000 square meters in Hsinchu City. However, the rest other 15 cities and counties did not issue Usage Licenses for buildings of 15 stories or above.