| **Event:**  **Latitude**:  **Longitude**:  **Address**:  **Type of structural collapse**:  **Building footprint area:**  **Max. collapse distance:**  **Max. Debris distance:**  **Building Material:**  **Structural system:**  **# of stories:**  **Approximate total height:**  **Apparent irregularities:**  **Approximate construction date:** | 2018 Hualien Earthquake  23.977  121.611  Grand Marshal Hotel, No. 36, Gongyuan Rd, Hualien City, Hualien County, Taiwan 970  Story mechanism  ~1,750 m2 (L-shaped)  0 m  8 m?  Reinforced concrete  RC moment frame?  11  40 m  Soft first story  1977 |
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| **BEFORE** | | Source: Google Street View | | [Source](https://www.google.com/url?sa=i&url=https%3A%2F%2Fmarshal-hotel-hualien-city.booked.net%2F&psig=AOvVaw2CnKWcOv2RLWeksKot6kit&ust=1679601126670000&source=images&cd=vfe&ved=0CA8QjRxqFwoTCJDt7_Wn8P0CFQAAAAAdAAAAABAs) |
| --- | --- | --- | --- | --- |
| Source: EERI VERT PPT  **AFTER**    [Source](https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.alamy.com%2Fview-of-the-partially-collapsed-marshal-hotel-damaged-by-the-65-magnitude-earthquake-in-hualien-taiwan-9-february-2018-two-more-mainland-tourist-image262267761.html&psig=AOvVaw2-_VXryoRAFhkOdR4qm6si&ust=1679600244829000&source=images&cd=vfe&ved=0CBAQjhxqGAoTCPDVo9Gk8P0CFQAAAAAdAAAAABCXAQ) | Source: EERI VERT PPT | |  | |

Source: EERI VERT PPT

| **Event:**  **Latitude**:  **Longitude**:  **Address**:  **Type of structural collapse**:  **Building footprint area:**  **Max. collapse distance:**  **Max. Debris distance:**  **Building Material:**  **Structural system:**  **# of stories:**  **Approximate total height:**  **Apparent irregularities:**  **Approximate construction date:** | 2018 Hualien Earthquake  23.988  121.607  Yun Men Tsui Ti Complex (雲門翠堤), No. 2, Shangxiao St, Hualien City, Hualien County, Taiwan 970  Story mechanism (bottom three stories crushed). Column rebar failure  500 m2 (Rectangular)  4 m?  10 m?  Reinforced concrete  RC moment frame?  12  40 m  Soft first story  1991 |
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| **BEFORE** | | [Source](https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.shuiwei.org%2Fbreakingnews%2Fearthquake-report-from-hualien.htm%2Fattachment%2Fyunmencuiti&psig=AOvVaw3qRfjG1pzHtTjz5C50De9b&ust=1679603025935000&source=images&cd=vfe&ved=0CA8QjRxqFwoTCNDXrv-u8P0CFQAAAAAdAAAAABAk) | |  |
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| [Source](https://www.google.com/url?sa=i&url=https%3A%2F%2Fnews.ltn.com.tw%2Fnews%2Flife%2Fbreakingnews%2F2335447&psig=AOvVaw3qRfjG1pzHtTjz5C50De9b&ust=1679603025935000&source=images&cd=vfe&ved=0CA8QjRxqFwoTCNDXrv-u8P0CFQAAAAAdAAAAABAE)  **AFTER**    Photo Credit: Reuters | Photo Credit: Paul Yang/AFP | | Photo Credit: Reuters | |

[Source](https://www.youtube.com/watch?v=C7AqbkhTRXY)

[Drone video of building lean (Guardian)](https://www.theguardian.com/world/video/2018/feb/07/taiwan-earthquake-leaves-tall-building-on-dangerous-lean-video?utm_source=feedburner&utm_medium=twitter&utm_campaign=Feed%3A+co%2FwCIn+%28World+news+and+comment+from+the+Guardian+%7C+guardian.co.uk%299VERT%20Response%20to%20%E2%80%9CHualien%E2%80%9DTOPIC%20#2:%20BuildingsBEFOREAFTER)

[Video of dust cloud during collapse](https://www.youtube.com/watch?v=C7AqbkhTRXY)

[Demolition video](https://www.youtube.com/watch?v=rZjTl603AQo)

| **Event:**  **Latitude**:  **Longitude**:  **Address**:  **Type of structural collapse**:  **Building footprint area:**  **Max. collapse distance:**  **Max. Debris distance:**  **Building Material:**  **Structural system:**  **# of stories:**  **Approximate total height:**  **Apparent irregularities:**  **Approximate construction date:** | 2018 Hualien Earthquake  23.994  121.608  Platinum Twin Star (白金雙星) Building on Guosheng 6th Street  Story mechanism  900 m2  ~3 m?  ? m  Reinforced concrete  RC moment frame?  7  25 m  Soft first story  **?** |
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| **BEFORE** | | Photo from EERI VERT PPT | |  |
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| Photo from EERI VERT PPT  **AFTER**    Photo from EERI VERT PPT | Photo from EERI VERT PPT | |  | |

| **Event:**  **Latitude**:  **Longitude**:  **Address**:  **Type of structural collapse**:  **Building footprint area:**  **Max. collapse distance:**  **Max. Debris distance:**  **Building Material:**  **Structural system:**  **# of stories:**  **Approximate total height:**  **Apparent irregularities:**  **Approximate construction date:** | 2018 Hualien Earthquake  23.9942  121.6088  Wu-ju-wu-shu (吾居吾宿) Building on Guosheng 6th Street  Story mechanism (bottom three stories crushed). Column rebar failure  200 m2 (rectangular)  ~3 m  ? m  Reinforced concrete  RC moment frame?  9 (including 3-story addition completed in 2016)  25 m  Soft first story  Unknown (before 2011) |
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| **BEFORE** | | Photo from EERI VERT PPT | |  |
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| Photo from EERI VERT PPT  **AFTER**    Photo Credit: [Liberty Times Net](https://news.ltn.com.tw/news/society/breakingnews/2335359) | Photo Credit: [Liberty Times Net](https://news.ltn.com.tw/news/society/breakingnews/2335359) | | Photo from Google Street View | |
|  |  | |  | |