Affordable Housing Design Challenge 2018

**HOUSING TESSELLATION**

- **Total Buildings**: $134(6\times34\times4+5\times49\times4 +4\times51\times4+3\times34\times4=3020$ UNITS)
- **Building Type**: 6/5/4/3 Inhabited floors
- **Unit Size**: 29 m²
- **Total Unit**: 3020 UNITS
- **Total Building Area**: 105,700 m²
TV cabinet capacity: 
\[3.3(W) \times 2.4(H) \times 0.35(D) = 2.7 \text{ m}^3\]

20 inch suitcase capacity: 
\[0.5 \times 0.34 \times 0.19 = 0.03 \text{ m}^3\]

The TV cabinet = 90 suitcases

Single/Couple — 29 ㎡
- Meet general comfortable living requirement
- Generous storage for daily life

Family with kids — 58 ㎡
- Separated beds for kids
- Homework area off hall
- Clear view around house from kitchen

Extended family — 87 ㎡
- Independent space for dinning and living
- Maximized sleeping potential in each room
- Large hall closet for family life

Storage Capacity

The louver shading system of the building facade blocks the overheated sunlight, which is adjusted by the device to show different opening and closing states, while the transverse bar provides more space for drying clothes.