

**THERMAL TRANSMITTANCE VALUES FOR RESIDENTIAL
BUILDINGS**

Based on SASO 2856/2014

Thermal transmittance (U-Values)

6.2.1 Low-rise / Residential buildings (not built by/for governmental entities):

Thermal transmittance values for low rise / residential buildings (not built by/for governmental entities) should not exceed the requirements listed in Table 1 below.

Note: The values listed in Table 1 are applicable to these buildings only until January 1, 2017. Beyond January 1, 2017, the values listed in Table 2 shall be applicable to all low rise / residential buildings, even if they are not built by/for governmental entities.

6.2.2 Low-rise / Residential buildings (built by/for governmental entities):

Thermal transmittance values for low rise / residential buildings (built by/for governmental entities) should not exceed the requirements listed in Table 2 below.

Table 1 – The thermal transmittance (U-Values) for low-rise / residential buildings

Opaque Elements	Zone 1	Zone 2	Zone 3
Roofs	0.31	0.37	0.42
Walls	0.53	0.61	0.7
Opaque Doors –All Assemblies	2.84	2,84	2,84
Vertical Glazing , 25% of wall			
All Assemblies	2.67 SHGC - 0.25	2.67 SHGC - 0.25	2.67 SHGC - 0.25
Skylight with Curb , Glass , % of Roof			
0% -3% All Types	4.26 SHGC- 0.35	4.26 SHGC- 0.35	4.26 SHGC- 0.35

Table 2 – The thermal transmittance (U-Values) for government buildings

Opaque Elements	Zone 1	Zone 2	Zone 3
Roofs	0.20	0.24	0.27
Walls	0.34	0.4	0.45
Opaque Doors –All Assemblies	2.84	2.84	2.84
Vertical Glazing , 25% of wall			
All Assemblies	2.67 SHGC- 0.25	2.67 SHGC- 0.25	2.67 SHGC- 0.25
Skylight with Curb , Glass , % of Roof			
0% -3% All Types	4.26 SHGC- 0.35	4.26 SHGC- 0.35	4.26 SHGC- 0.35

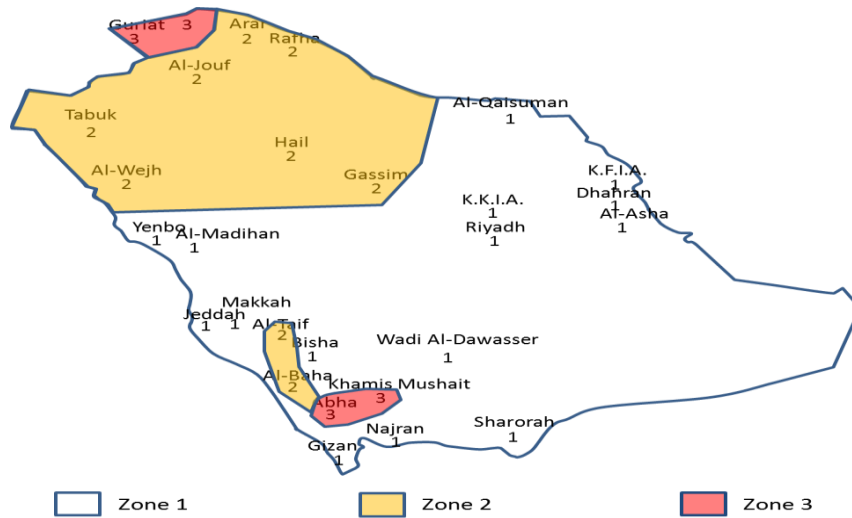


Table 3 – List of 24 cities under enforcement in Phase 1

Region	City
Riyadh	Riyadh, Al-Kharj
Makkah Almukaramah	Makkah, Jeddah, Ta'if
Madinah	Madinah, Yanbu
Eastern Province	Dammam, Dhahran, Khobar, Qatif, Al-Ahsa, Hafar Al-Batin
Qasim	Buraidah, Unaizah
Ha'il	Ha'il
Jawf	Sakakah
Northern Borders	Arar
Tabuk	Tabuk
Asir	Abha, Khamis Mushait
Jizan	Jizan
Najran	Najran
Al-Baha	Al-Baha

Note: For more information on SASO 2856, visit SASO website

<http://www.saso.gov.sa/en/pages/default.aspx>