

Client: E. Wood Ltd.
Standard Way
Northallerton, North Yorkshire DL6 2XA
United Kingdom

Date: 30 May 2003
Report: J1788
Issue: 1
Page: 1 of 6

Objective:

Contract test of the solar reflectance of a material using ASTM E903-96 "Standard Test Method for Solar Absorbance, Reflectance, and Transmittance of Material Using Integrating Spheres"

Material(s):

Five (5) Specimens of the following Roof Coating Materials:

1. Thortex Uni-Tech Primer coated with Thortex Uni-Tech XF, ICS ID 1-X
2. Thortex Uni-Tech Primer coated with Thortex Uni-Tech UV G, ICS ID 2-X

Date(s) Provided by Client: 09 May 2003

Procedures:

Testing protocols in accord with good laboratory practice were employed for all tests.

Testing procedures as specified within ASTM E903 were followed.

The total reflectance of each sample was measured from 2500 to 300nm in 5nm intervals, using a Cary 500 UV/VIS/NIR Spectrophotometer equipped with a Labsphere DRA-CA-5500 Integrating Sphere.

The actual spectral reflectance for each sample was then calculated by multiplying the measured value by the know reflectance factor of the reference reflectance standard.

Using the average of the three spectra, the solar reflectance of was then calculated using both the Direct Normal and Hemispherical Solar Irradiance Spectrums provided in Table 1 of ASTM G159-98.

Note(s):

Spectra was gathered and calculations done in 5nm increments however table included only shows ever 10nm.

Results:

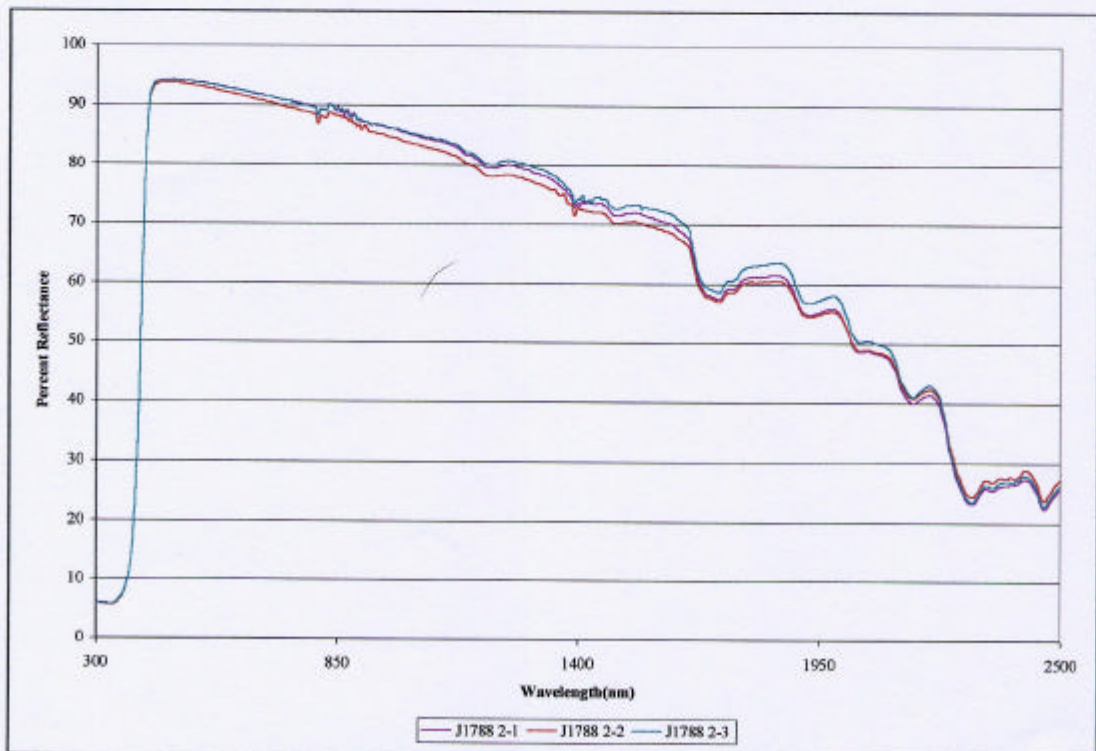
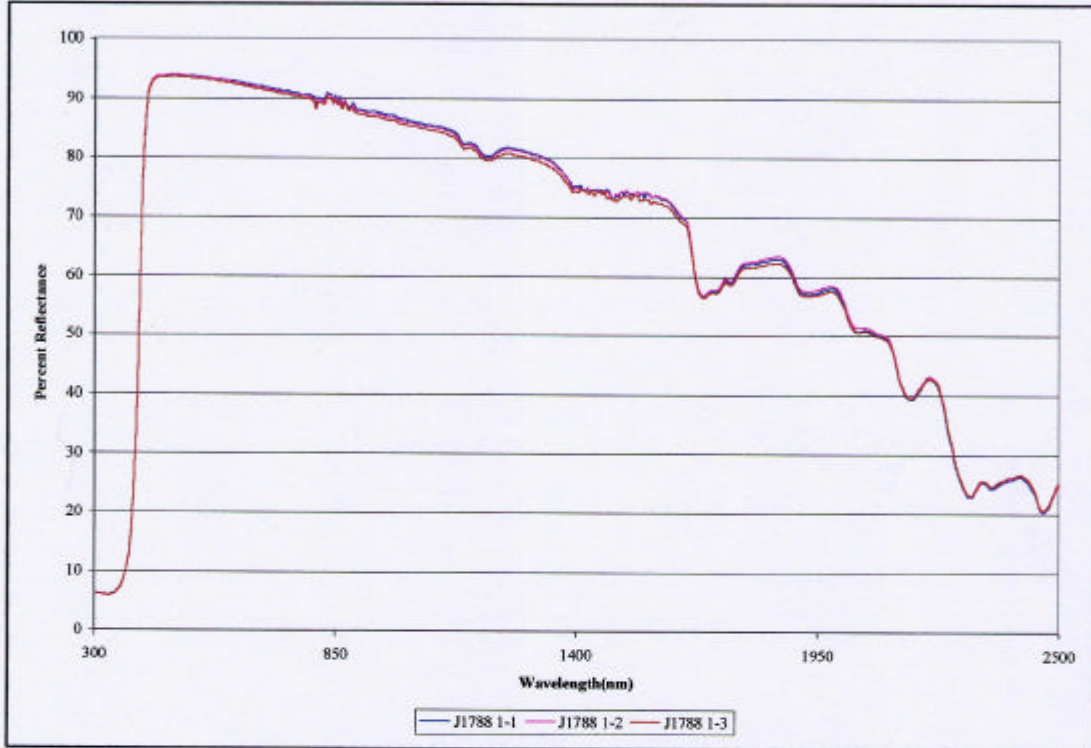
Date(s) of test(s): 12 & 30 May 2003

Sample	Solar Reflectance	
	Hemispherical	Direct
1-X	0.83	0.83
2-X	0.82	0.83

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Page: 2 of 6

Appendix:



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 Report: J1788
 Issue: 1
 Page: 6 of 6

Wavelength (nm)	Percent Reflectance							
	J1788 1-1	J1788 1-2	J1788 1-3	1-X Avg	J1788 2-1	J1788 2-2	J1788 2-3	2-X Avg
2100	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2110	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
2120	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2130	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2140	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2150	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
2160	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
2170	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2180	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
2190	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
2200	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
2210	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
2220	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
2230	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
2240	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
2250	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
2260	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
2270	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
2280	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
2290	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
2300	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2310	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
2320	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
2330	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
2340	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
2350	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2360	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
2370	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
2380	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
2390	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
2400	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
2410	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
2420	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
2430	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
2440	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
2450	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
2460	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
2470	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
2480	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
2490	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
2500	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9

(End of Data)