

# USP™ ISO

## Technical Data Sheet

**Product Name:** USP™ ISO (Manufactured by Atlas or RMax)

**Classification:** Thermal Insulation, Polyisocyanurate

**Product Description:** USP™ ISO is a closed-cell, polyiso foam core integrally laminated to heavy black (non-asphaltic), fiber-reinforced felt facers. USP™ ISO is also available in 25-psi density formula. USP™ ISO is typically specified for hot asphalt, modified bitumen and single-ply membrane systems. USP™ ISO has one side marked for hot BUR and modified bitumen applications and one unmarked side for single ply and cold applied modified bitumen applications, making this a universally adaptable product suitable for a variety of applications. Available in 4' x 8' (1.2m x 2.4m) and 4' x 4' (1.2m x 1.2m) panels.

**Application Method:** USP™ ISO is applied using mechanical fasteners or hot asphalt in hot mop techniques.

HCFC FREE **ZERO** OZONE DEPLETION POTENTIAL

**Approvals:** Federal Specification HH-I-1972/GEN and HH-I-1972/2 Class 1. This federal specification has been cancelled.

- ASTM C1289, Type II, Class 1
- California State Insulation Quality Standards and Title 25, Foam Flammability Criteria (License #TC 1231).
- IBC, BOCA, ICBO, and SBCCI Sections on Foam Insulation
- CCMC No.12464-L
- Meets CAN/CGSB-51.26-M86, CAN/ULC-S704

<b>Long-Term Thermal Resistance*</b>					
THICKNESS		LTTR-VALUE	RSI m <sup>2</sup> • K/W	METAL	
In	mm			in	mm
1.0	25	6.0	1.06	2.625	66.68
1.1	28	6.6	1.16	2.625	66.68
1.2	30	7.2	1.27	2.625	66.68
1.3	33	7.8	1.37	2.625	66.68
1.4	36	8.4	1.48	2.625	66.68
1.5	38	9.0	1.58	4.375	111.13
1.6	41	9.6	1.69	4.375	111.13
1.7	43	10.3	1.81	4.375	111.13
1.8	46	10.9	1.92	4.375	111.13
1.9	48	11.5	2.02	4.375	111.13
2.0	51	12.1	2.13	4.375	111.13
2.1	53	12.8	2.25	4.375	111.13
2.2	56	13.4	2.36	4.375	111.13
2.3	58	14.0	2.48	4.375	111.13
2.4	61	14.7	2.59	4.375	111.13
2.5	64	15.3	2.69	4.375	111.13
2.6	66	15.9	2.80	4.375	111.13
2.7	69	16.6	2.92	4.375	111.13
2.8	71	17.2	3.03	4.375	111.13
2.9	74	17.9	3.15	4.375	111.13
3.0	76	18.5	3.26	4.375	111.13
3.1	79	19.1	3.36	4.375	111.13
3.2	81	19.8	3.48	4.375	111.13
3.3	84	20.4	3.59	4.375	111.13
3.4	86	21.1	3.71	4.375	111.13
3.5	89	21.7	3.82	4.375	111.13
3.6	91	22.4	3.94	4.375	111.13
3.7	94	23.0	4.05	4.375	111.13
3.8	97	23.7	4.17	4.375	111.13
3.9	99	24.3	4.28	4.375	111.13
4.0	102	25.0	4.40	4.375	111.13

\*Long-term thermal resistance values of the foam were determined in accordance with CAN/ULC S770. All test samples were third-party selected and tested by an accredited materials testing laboratory.

**FM Standard 4450/4470 Approval**

USP™ ISO is approved for Class 1 insulated steel, wood, concrete and gypsum roof deck construction for both 1-60 and 1-90 Windstorm Classifications (USP™ ISO may be mopped or mechanically fastened to concrete roof deck). Refer to FM Approval Guide for details on specific systems.

**UL Standard 1256 Classification**

Insulated metal deck construction assemblies – Construction #120 and #123

**UL Standard 790 (ASTM E 108) Classification**

Class A with most roof membrane systems. See UL Roofing Materials & Systems Directory.

**UL Standard 263 Fire Resistance Classification (ASTM E 119)**

Some classifications for fire resistance are P225, P230, P259, P508, P510, P514, P519, P701, P710, P713, P717, P718, P719, P720, P722, P723, P924, P725, P727, P728, P729, P730, P732, P801, P814, P815, P818, P819 and P828. See UL Fire Resistance Directory for updated listings.

**UL Standard 1897 Uplift Resistance**

120 PSF, 150 PSF, 165 PSF, 245 PSF

**UL Certified for Canada**

**UL of Canada**

Insulated Roof Deck Assemblies – Construction #34. Meets CAN/ULC-S126-M86, CAN/ULC-S101-M89, CAN/ULC-S107-M87

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative.

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