BUILDING MATERIAL R VALUES

If this lesson helped you with your studies please email me at dlynchindy@gmail.com

	-	Choice		
Identi	fy the	e letter of the choice that best o	completes the stateme	nt or answers the question.
	1.	The R-value of a structural panel is the average R-value for the entire assembly. The average accounts for the different layers of material in the structure sandwich, air film resistance and t effect of parallel conduction paths associated with framing materials. Overall R- values are expressed as (SqFT x DEG F) / (Btuh)		
		a. subtracted	c.	average
		b. added	d.	overall
	2.	The R value of a material is	the thermal resistance	associated with a specific?
		a. layer		conductance
		b. density	d.	thickness
	3.	Air film resistances are	to the other R valu	nes associated with a structural panel?
		a. added	c.	muliplied
		b. subtracted	d.	none of these
4. A wall sandwich having a overall R value of 18.1 would have a transmission coefficient				would have a transmission coefficient (U) valve of what?
		a. 0.055		0.255
		b. 0.155	d.	18.1
	5.	A window glass per inch offers a R- Per Inch of what value listed below? Use web to find R Value of Glass		
		a. 0.91	c.	0.185
		b. 170	d.	0.023
	6.	If a wall is made up of comm Brick is equal to 0.80	non brick which is 4 i	nches thick what is the R- Value of this brick? 4" Common
		a. 1		0.80
		b. 10	d.	30
	7.	Using the greatest value per which is applied at 26 inches		ld the total R value be for sprayed on polyurethane foam
		a. 159		123
		b. 162.5	d.	101
	8.	A wall has a combined sandwich R- value of all the materials equal to 14.5 R. What is the U value of the		
		sandwich?		
		a. 0.0689	c.	2
		b. 1	d.	0.89998
	9.	A dead air space a minimum	R value for 1/2" up t	o 4" is equal to 1.00R. What would it be for 8"?
		a. 2.00	c.	0.91
		b. 0.77	d.	0.80
	10.		n R value of 1.33R pe	r 1/2". What would the R value be for 2" of this material?
		a. 2	c.	0.16
		b 0.08	h	5 32

BUILDING MATERIAL R VALUES

Answer Section

MULTIPLE CHOICE

- 1. ANS: D
- 2. ANS: D
- 3. ANS: A ADDED
- 4. ANS: A U = 1/R 1/18.1 =0.055
- 5. ANS: A 1/4" single pane 0.91
- 6. ANS: C 4" = 0.80 R
- 7. ANS: B 6.25 X 26 = 162.5
- 8. ANS: A U= 1/R 1/14.5 =0.0689
- 9. ANS: A 2 inches
- 10. ANS: D 1.33 per x 4 = 5.32