

...

()
() CCA

)
(
(.)
() Akhter
(

EN

C.puteana
(.) *P.placenta*

() Winandy

()

()

()
()
(*Daedalea quercina- Polystictus versicolor - Coniophora cereblla*)

) *D qu C c*
P.v ()
(.)

($r = l / l$)

()

(.)

()

. +

:

:

+

+

(cm)	()	(m)	(m)	‰	
		/			
		/			

EMC

× × / × / ×

DIN 52176 , B S.338 , (1961)

/

Kolle

()

)

(

()

Kolle

()

()

...

DIN		$\times / \times /$		$100 \pm 5^\circ \text{C}$
	()	52176	.	
	.	Instron		=
$/ \times)$		$/ \text{ mm}$	($\frac{\quad - \quad}{\quad}) *$
	(.)	(
			()	
	(.)			
			()	
				$\times \times$
			Instron	
				$/$
	()			(.)
	()	()		()
			$\sigma u = \frac{pu}{A}$	()
			(N / m^2)	: σu
			(N)	: pu
			(m^2)	: A

WILLEITNER	()		()	
a a	%			
a a	%			
a	%			

()

a Willeitner

()			
			/
		/	/
			/

()

.()

.()

Findly

...

()

"()

.()

()

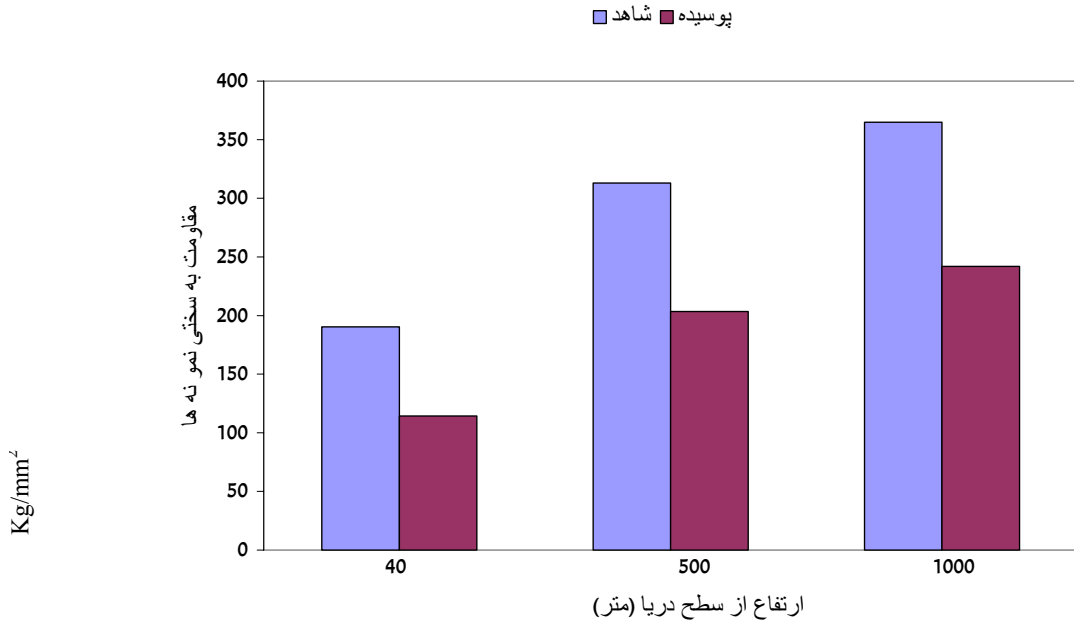
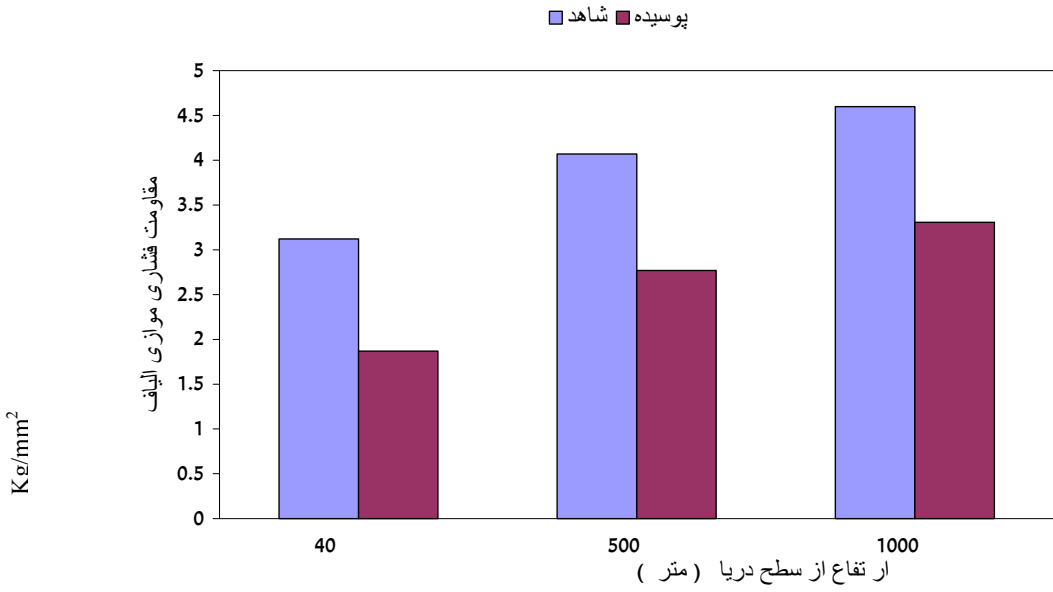
()

	()		
<i>gr / cm²</i>	/	/	/
		/	
<i>kg / mm²</i>	/		/
<i>kg / mm²</i>	/	/	/
			/
	/	/	/

				F
		/	/	/
A		/	/	/
		/	/	
		/		

: A

...



()

() Akhter .()

.()

/ /

.()

Cupressus sempervirens

()

(*Coriolus versicolor*)

()

)

)

.() EN

(

CCA

...

- 7- Akhter & M.D.C. Hale. 2001. Variation in natural durability of British grown Douglas fir / IRG.
- 8- American Society of Testing Material, 1998 ASTM D 1110 – 84.
- 9- British Standard 838, 5761, 1961. Methods of test for toxicity of wood preservative to fungi.
- 10- Eaton, R.A. & M.D.C. hale 1993. Wood decay, chapman and hale london.
- 11- Finandy W.P.K, 1967. Timber pests and diseases, pergamon New York.
- 12- Standard DINS 52176 september 1972.
- 13- Scheffer, T.C, Morrdl.y.J, 1998. Natural durability of wood: worldwide checklist of species. Forest Research Laboratory Research contribution 22, Oregon state university, Corvallis, OR. 58PP
- 14- Taylor, A.M, Gartner, B.L. Morrell, j, 2002. Heart wood formation and natural durability. Wood fiber Sci 34 (4) 587-611
- 15- Winandy, J, E. & Morrel, J.J., (1993). Relationship between incipient decay, strength and chemical composition of Douglas – fir heart wood. Wood and Fiber science, 25 (3): 78-288.
- 16- Willieitner , H , 1965. uber die my kologische prufung , von Holz spanplttten , material prufung 7 (4).

An Evaluation of Variation in Natural Durability of *Cupressus sempervirens* in Nowshar at Three Heights above Sea Level.

V.Tazakkor Rezaee¹

D.Parsa Pajouh²

H. Khademi Eslam³

Abstract

The present work is a study of the variation in natural durability of *Cupressus sempervirens* against white rot (*Coriolus versicolor*) at three heights from sea level. In the conditions mentioned, evaluation was made while using Kollechal method according to DIN 8216 and B. S, 838: 1961, in a completely randomized design. In addition to natural durability, specimens were contaminated with cultured fungus for fourteen weeks (22°C and 75% relative humidity), after which, weight loss, compressive strength (parallel to grain), and hardness of specimens were assessed. Weight loss of specimens (from 40) and 500 meter heights above sea level was more and accompanied by less durability was a significant difference observed among heights above sea level, concerning weight loss. Compressive strength (parallel to grain) was related to height above sea level so that samples from the highest level had the highest strengths. There was a significant difference observed among hardness of samples from the three different heights above sea level.

Keywords: *Cupressus sempervirens*, *Coriolus versicolor*, natural durability, Compressive strength (parallel to grain), Hardness, Weight reduction, Kollechal method.

1- Staff Member, Islamic Azad University, Chaloos and Ph.D. Student, Wood & Paper Science , Azad University, Tehran.
E-mail: vahid_tazakor@yahoo.com

2- Professor, Faculty of Natural Resources, university of Tehran.

3- Assistant professor, Tehran Islamic Azad University.