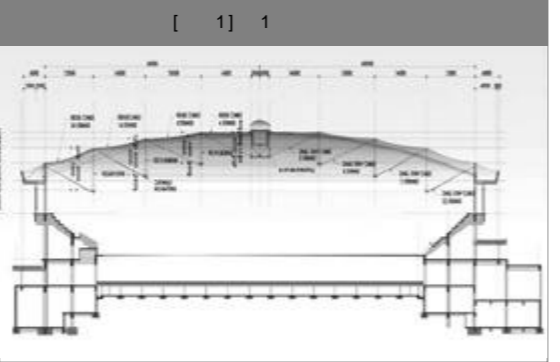




1 | 02)424-6051 | E-mail: yunki@ssyenc.co.kr
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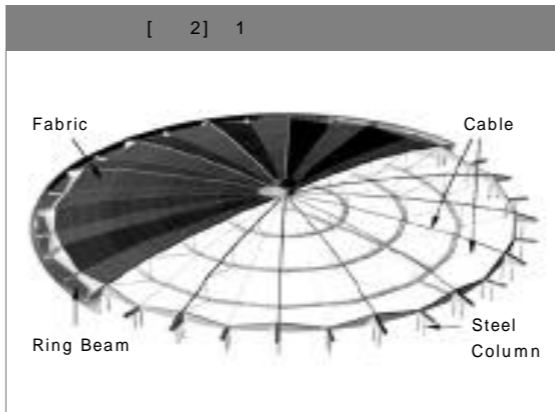


가
 - 1
 1. 1
 1.1
 : 14,0168m²
 : 30,548.6m²
 : 3 , 1
 : 120m
 : 15,000
 :
 (Fabric Structure on Cable Dome)

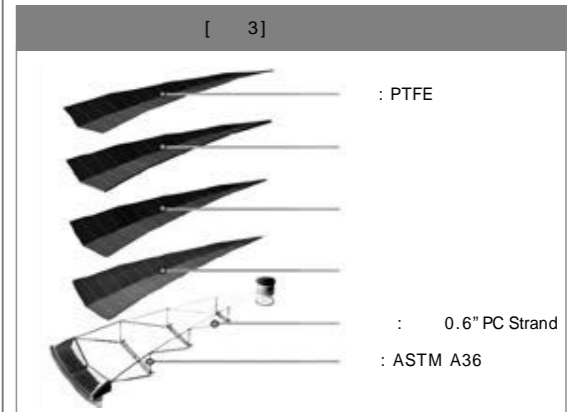


1.2
 1 (PTFE)

가
 (STRAR-CH)
 1986
 (1) (2)
 - 1993 EXPO,
 가

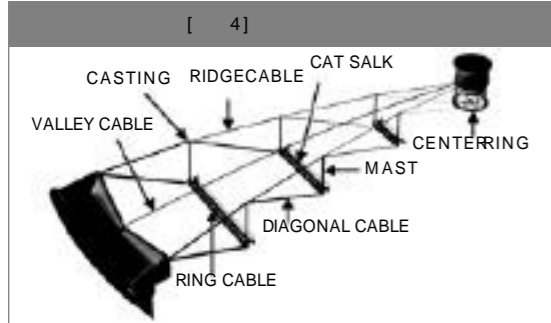


[2] 1
 120m 16 (Ridge)
 3 (Mast)
 (Diagonal) (Ring) 3
 (Valley)
 (1)
 (Fabric)
 PTFE
 10 80%
 (Insulation bag)
 200mm
 90mm
 (Vapor barrier)
 (Acoustic liner)
 (T = 0.10m)

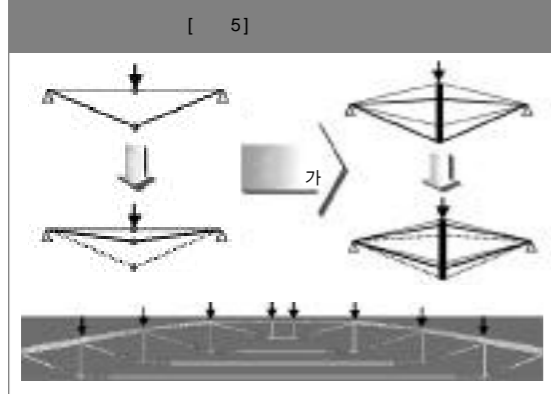


[3]
 : PTFE
 : 0.6" PC Strand
 : ASTM A36
 (2)
 (Valley cable)
 8가
 (Ridge cable)
 2가
 (Mast)
 (Ring cable)
 (Diagonal cable)
 가
 17가 ,
 4가 ,
 10가 , 16가

1.1



1.3 가



2. 가 가

- 2.1
- Center Ring : 762mm
 - Inner Ring : 586mm
 - Middle Ring : 574mm
 - Outer Ring : 128mm

298mm, 0.76

2.2 26.58tf

[1]				
	Center	Inner	Middle	Outer
	9,993	8,180	10,050	10,875
	6,661	6,018	5,408	5,711
	5,534	8,074	6,895	7,711

: kgf

2.2(ASCE)
12.1tf

81%가

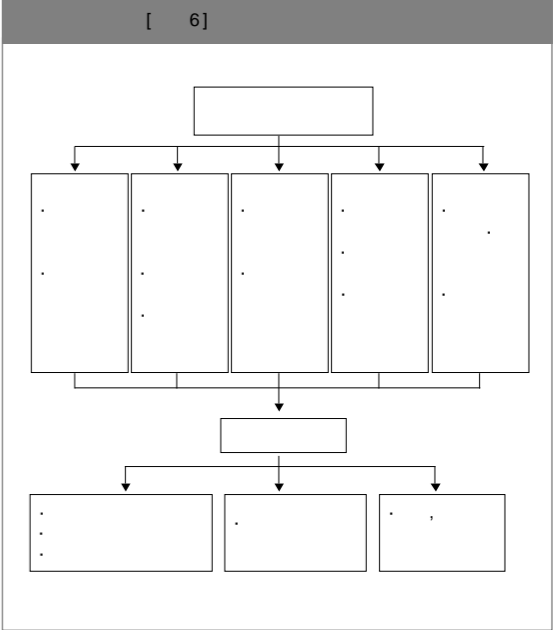
가 가

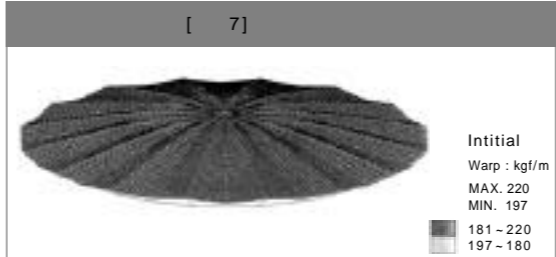


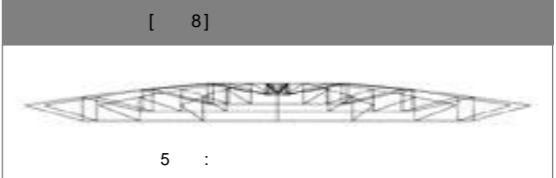
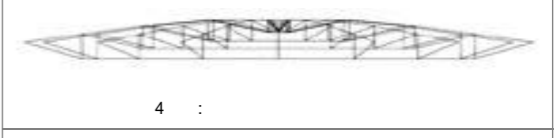
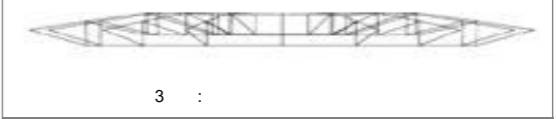
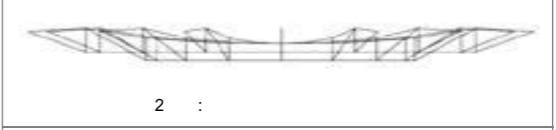
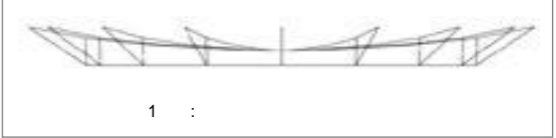
2.3 1

[2]	

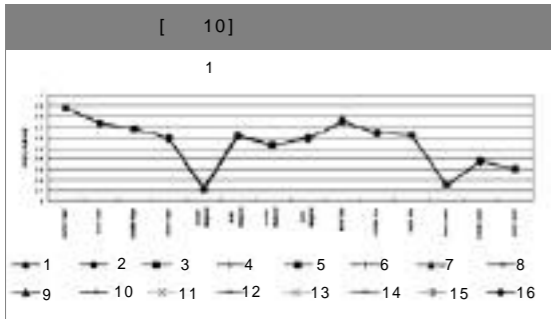
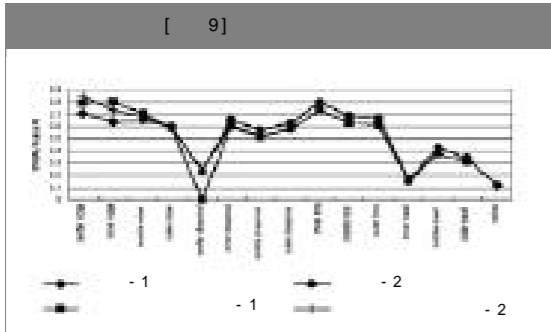
3. 3.1 (1)

1 [6]



<p>(2)</p> <p>- Raphson</p> <p>- Hook 가</p> <p>1/2</p> <p>3.2</p> <p>(1)</p> <p>Structural Applications of Steel Cables for Buildings(ASCE)</p>	<p>(2)</p> <p>- : 3.0kgf/m²</p> <p>- : 1.65kgf/m²</p> <p>- : 0.85tf/m³</p> <p>- : 11.85tf/m³</p> <p>- : 200kgf/m</p> <p>- : 50kgf/m²</p> <p>- : 1.1</p> <p>- : 1.0</p> <p>- : 55kgf/m²</p> <p>- : 30m/sec</p> <p>- : B</p> <p>- : 56.25kgf/m²</p> <p>- : 1.0</p> <p>- 가 : 2.2</p> <p>3.3</p> <p>(1)</p> <p>가</p> <p>PTFE</p> <p>(Poly Tetra Fluor Ethylene)</p> <p>PTFE 0.8±0.1mm ,</p> <p>(Warp) 140 ~ 150kg/cm , (Fill)</p> <p>100 ~ 120kg/cm</p> <p>(2)</p> <p>7 0.6PC Strand(ASTM A416-85 Low Relaxation Type)</p>		<p>18,90kg/cm²</p> <p>26,640kgf 9/8" Wire Rope(ASTM A603 Wire Rope)</p> <p>3.4</p> <p>[7]</p>  <p>Initial Warp : kgf/m MAX. 220 MIN. 197 181 ~ 220 197 ~ 180</p>  <p>SNOW-S1 Warp : kgf/m MAX. 3355 MIN. 0 3126 ~ 3750 2501 ~ 3125 1252 ~ 1876 1877 ~ 2500 627 ~ 1251 1 ~ 626 0</p>  <p>WIND Fill : kgf/m MAX. 1501 MIN. 0 1002 ~ 1501 502 ~ 1001 1 ~ 501 0</p> <p>3.5</p> <p>(1)</p>	<p>[8]</p> <p>5</p> <p>가 가</p> <p>[8]</p>  <p>5 :</p>  <p>4 :</p>  <p>3 :</p>  <p>2 :</p>  <p>1 :</p> <p>(2)</p> <p>(3)</p>
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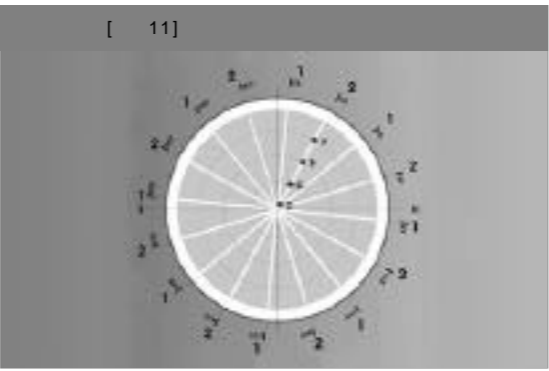
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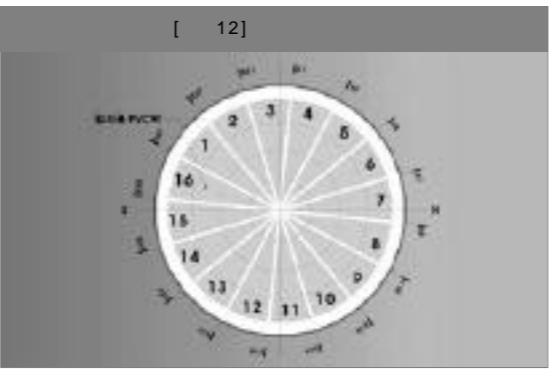
4. .
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(1) [11]

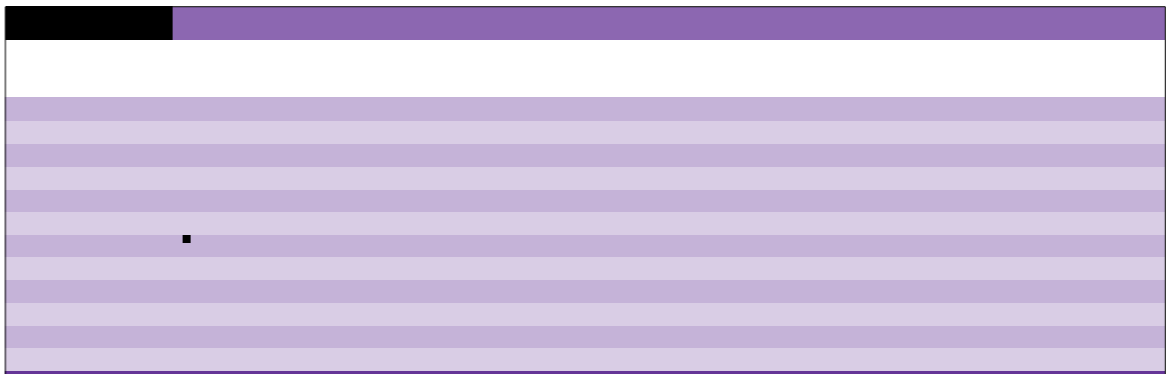
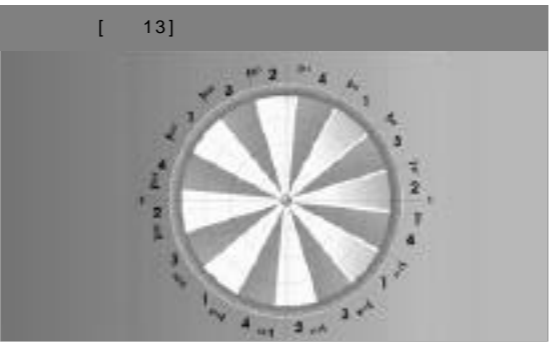
5	
-0 :	112.27tf
	64.81tf
	28.57tf
	7.14tf
-1 :	113.68tf
-2 :	56.86tf
-3 :	24.86tf
-4 :	4.90tf ([11])



(2)
 , [12] .



[13] .



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