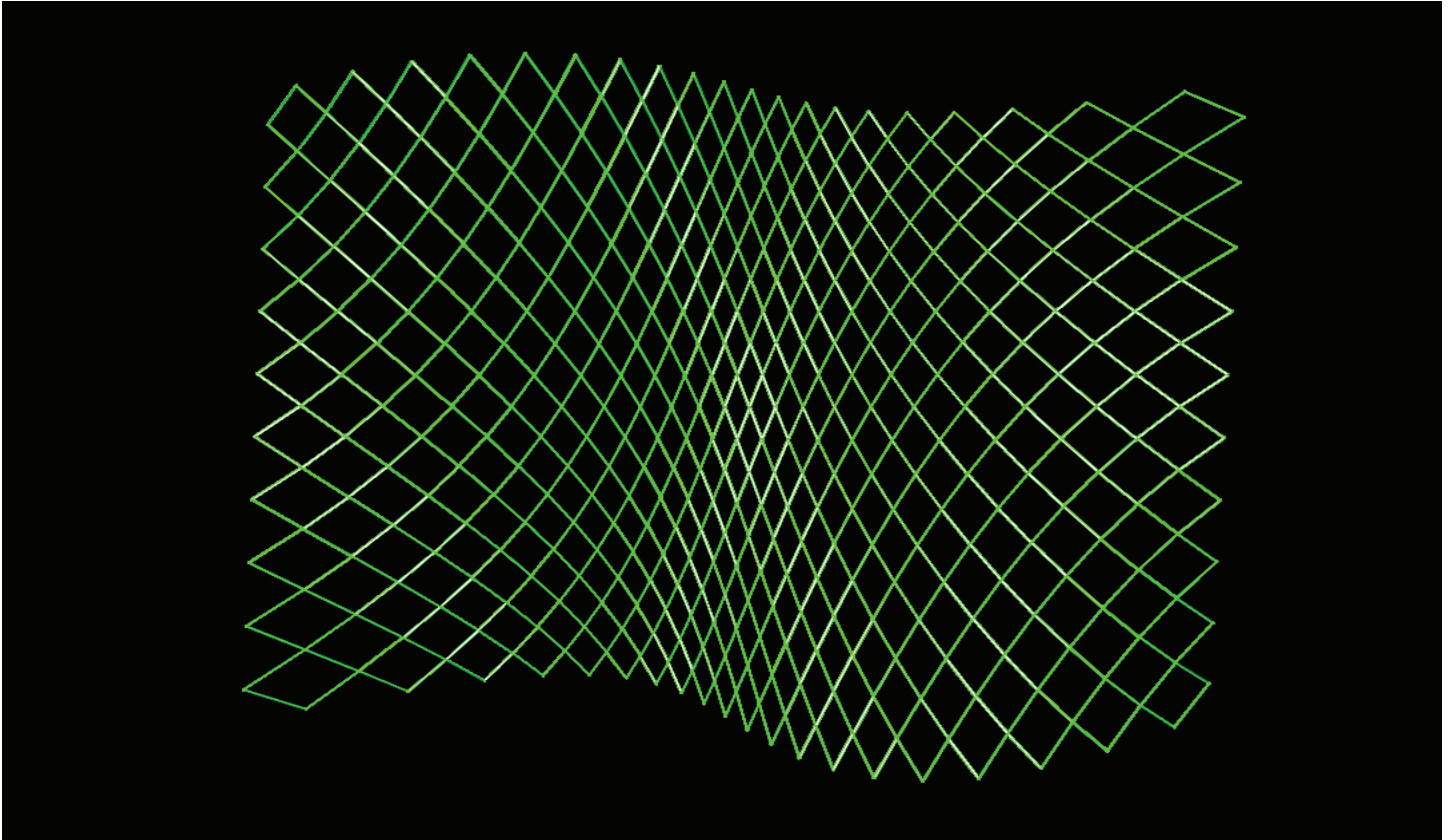
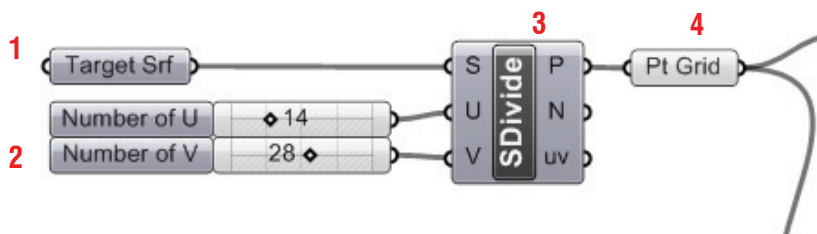
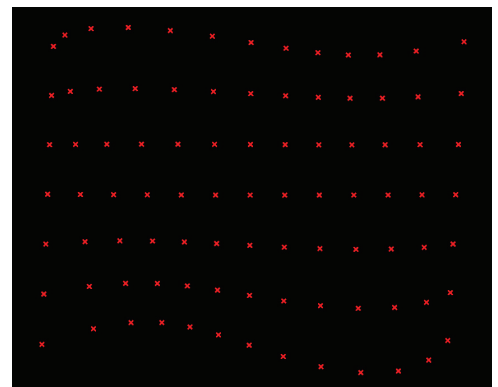
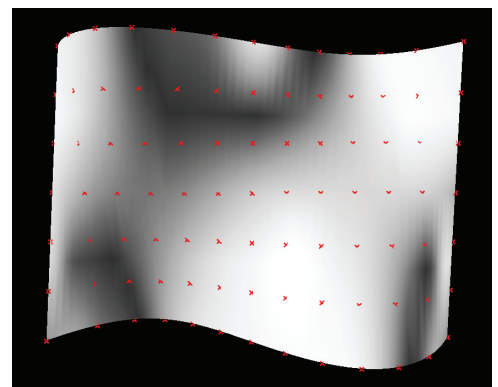


### 3\_2 DIAGONAL CONNECTION



#### Step1 : Points from Surface

1. **Surface** (Params/Geometry/Surface) : "Target Srf"  
 - Draw one free surface in Rhino scene  
 - Right Click and Set one surface : click the target surface in Rhino scene
2. **Slider** x 2 (Params/Special/Number Slider)  
 - "Number of U" : Even numbers, Lower limit=0, Upper limit=60, Value=6  
 - "Number of V" : Even numbers, Lower limit=0, Upper limit=20, Value=12
3. **SDivide** (Surface/Util/Divide Surface)  
 - S : Surface ("Target Srf") to S  
 - U : Slider ("Number of U") to U  
 - V : Slider ("Number of V") to V
4. **Point** (Params/Geometry/Point) : "Pts Grid"  
 - SDivide (P)



**Step2 : Grouping Points**

\* Grouping Point Group A and B

5. **Cull** (Logic/Sets/Cull Pattern)

- L : *Point*("Pts Grid")

- P : Manage Boolean Collection -> "True / False"

6. **Shift** (Logic/List/Shift List) x 2

- L : 5. *Cull*

- S : 1 (Integer) / -1(integer) for each

7. **Param Viewer** (Params/Special/Param Viewer)

- Shift as Input for each

8. **Cull** (Logic/Sets/Cull Pattern) x 2

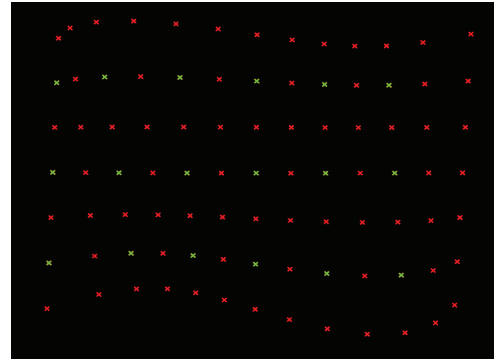
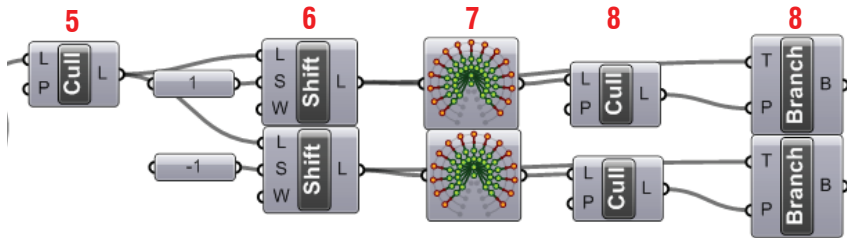
- L : *Param Viewer*

- P : Manage Boolean Collection -> "False / True" for each

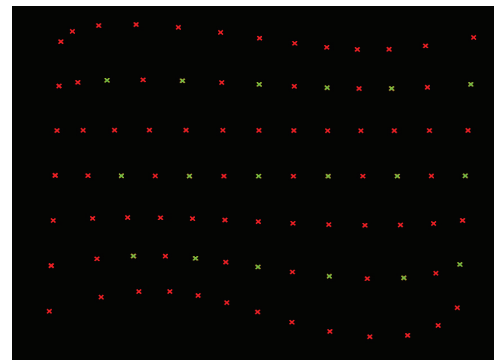
9. **Branch** (Logic/Tree/Tree Branch) x 2 -> **Group A & Group B**

- T : *Shift* for each

- P : 8. *Cull* for each



Group A



Group B

\*\* Grouping Point Group C and D

10. **Cull** (Logic/Sets/Cull Pattern)

- L : *Point*("Pts Grid")

- P : Manage Boolean Collection -> "False / True"

11. **Param Viewer** (Params/Special/Param Viewer)

- 10. *Cull*

12. **Cull** (Logic/Sets/Cull Pattern)

- L : *Param Viewer*

- P : Manage Boolean Collection -> "True / False"

13. **Shift** (Logic/List/Shift List) x 2

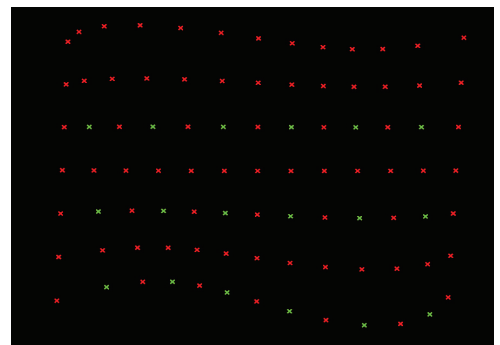
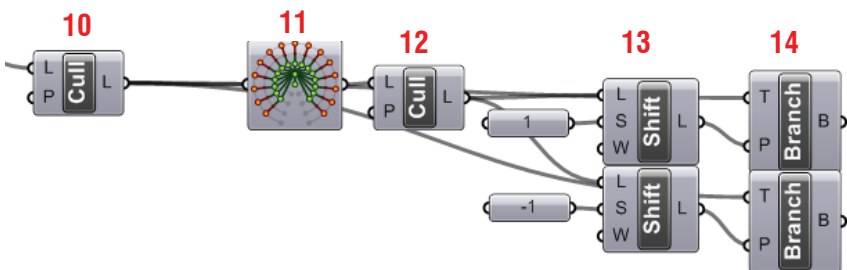
- L : 12. *Cull*

- S : 1 (Integer) / -1(integer) for each

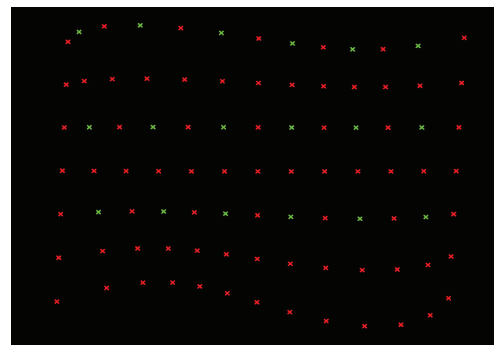
14. **Branch** (Logic/Tree/Tree Branch) x 2 -> **Group C & Group D**

- T : *Param Viewer* for each

- P : *Shift* for each



Group C

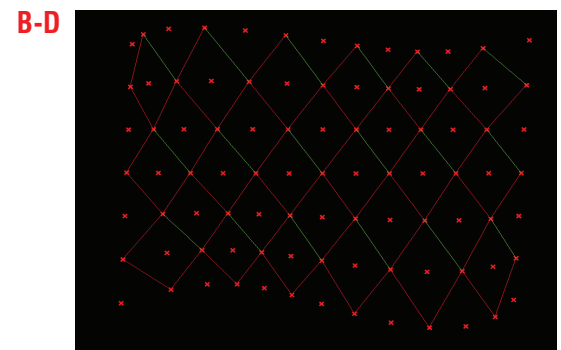
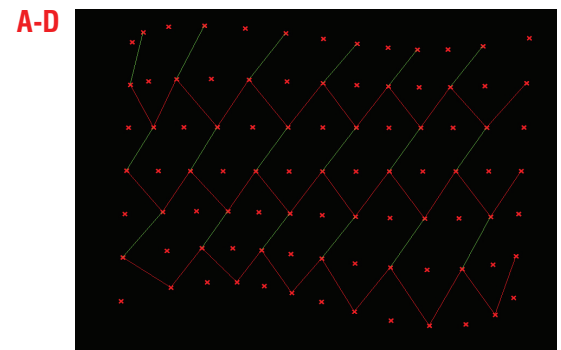
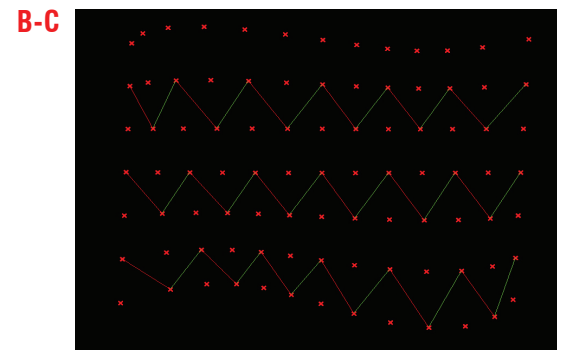
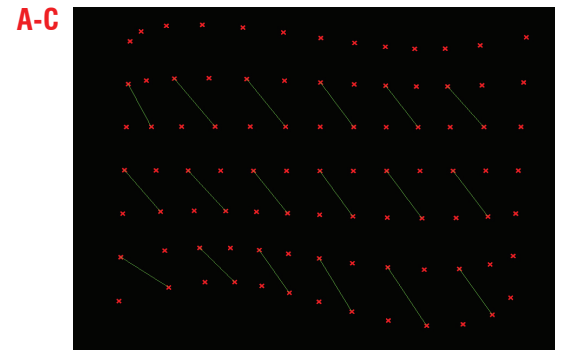
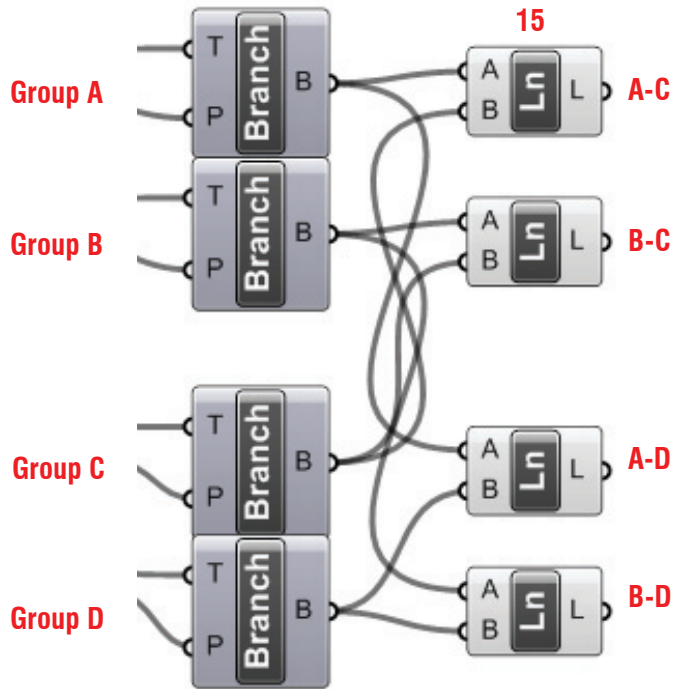


Group D

**Step3 : Connecting Point Groups**

15. **Ln** (Curve/Primitive/Line) x 4

- Lines 1 : Group A - Group C
- Lines 2 : Group B - Group C
- Lines 3 : Group A - Group D
- Lines 4 : Group B - Group D



**Appendix**  
- Definition map

