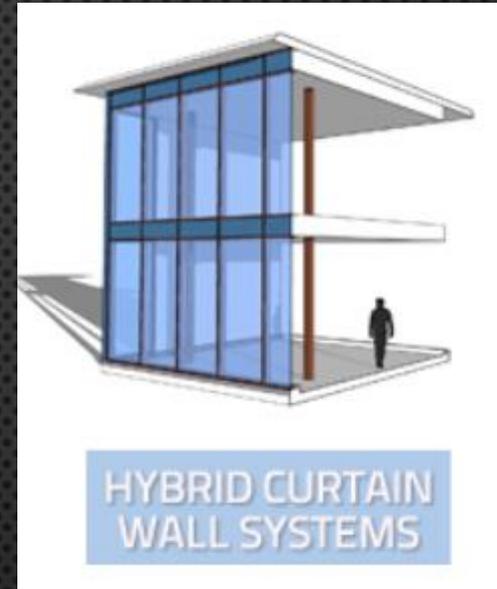


OPAQUE FAÇADE SYSTEM



GKD METAL FABRICS

GLASS CURTAIN WALL MATERIAL



CASE STUDY

LIZBETH RAMOS

ARCH2431_BTECH3

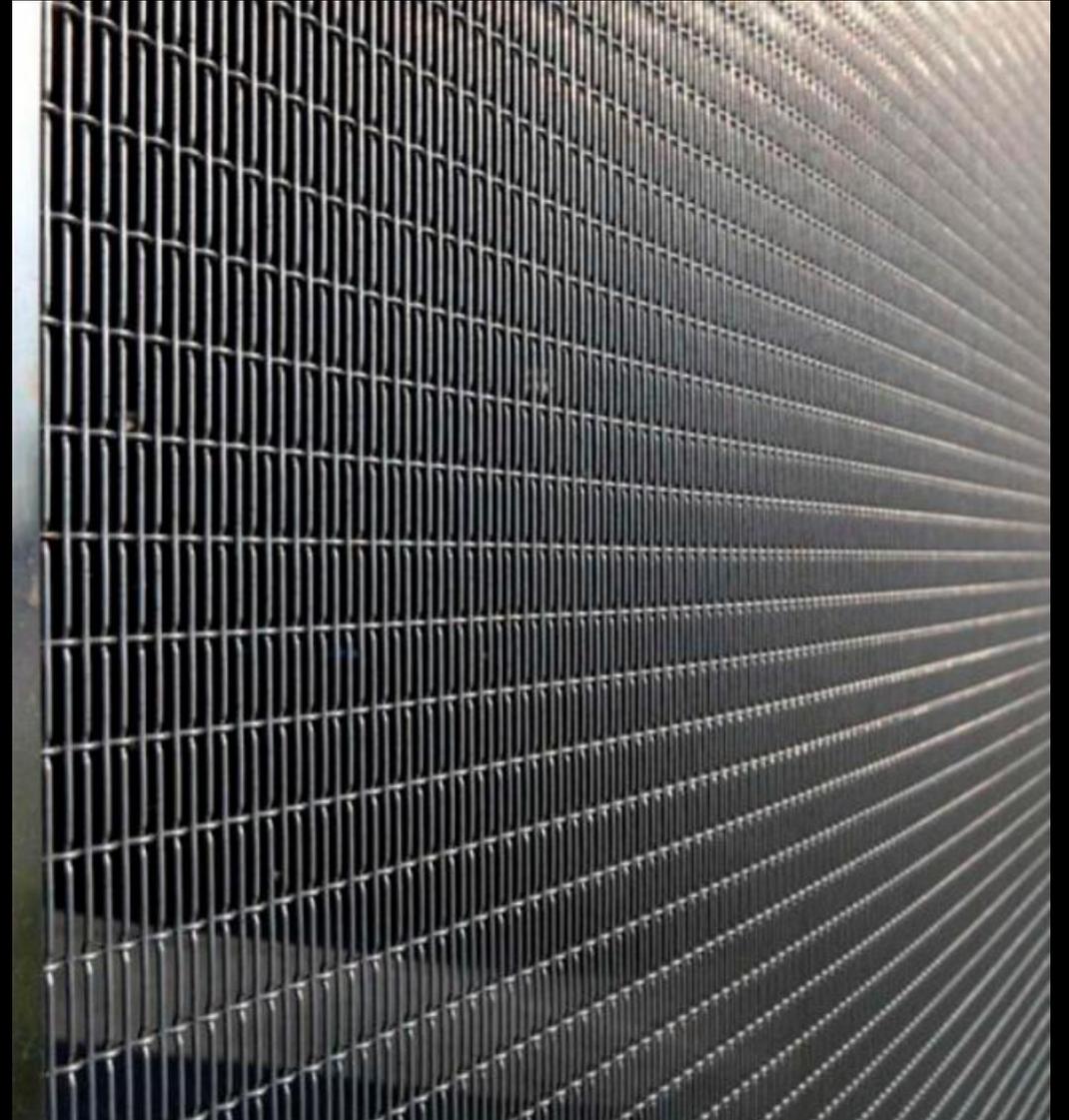
SP2020

GROUP 2 ; JOVANY, FITZROY, AND ALBIN

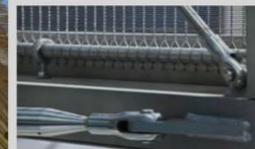
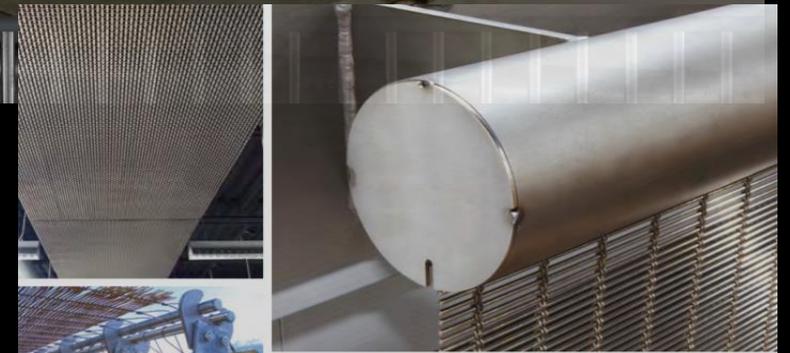
GKD METAL FABRICS

- GKD metal fabrics effectively hide wiring, plumbing, ductwork, mechanicals and support structures with style and elegance.
- they're fireproof, extremely durable and allow for the free flow of air and sprinkler system water.
- exceptional aesthetics in any light – sun, moon or artificial illumination. And with its durability and ease of maintenance
- allows for natural daylighting and ventilation to reach the buildings surface.
- It has ideal for large scale applications and can cover four times the surface area of traditional billboards with as much as 80% less electricity.

GKD offers analysis and specific quantifiable heat and light value



- secured on all sides to a stainless-steel frame which is then attached to a structure.
- The stainless steel used in GKD metal fabrics contains greater than 60% post-industrial and post-consumer content recycled material.
- During manufacturing, 100% of the scrap metal material is recycled.
- When GKD metal fabric reaches its useful life, it is 100% recyclable.



- The video shows the functions of the GKD metal with the sun light

<https://www.youtube.com/watch?v=V4q-fGHGwQ4>



HYBRID CURTAIN WALL SYSTEM

FEATURES

• SYSTEM CAN ACCOMMODATE INFILL MATERIALS RANGING IN THICKNESS FROM 1/8" TO 1 3/4".

• ALUMINUM RAIN SCREEN PANELS IN SHEET OR COMPOSITE, WITH CONCEALED FIXINGS AND DRY GASKET JOINT SYSTEMS

• TRIPLE GLAZING

• GRANITE AND STONE IN FLUSH GLAZED OR PROJECTED APPLICATIONS

• TERRACOTTA

• VERTICAL FEATURE FINS

• HORIZONTAL CUSTOM SUNSHADES

• STANDARD AND CUSTOM EXTERIOR PROFILE CAPS

• CONCEALED WINDOW WASHING GUIDES AND RESTRAINTS

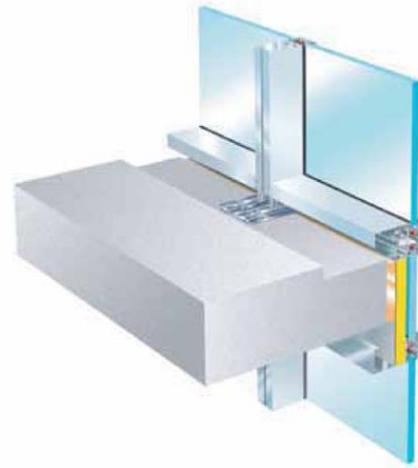
• LIGHT SHELVES

• DUAL FINISHES

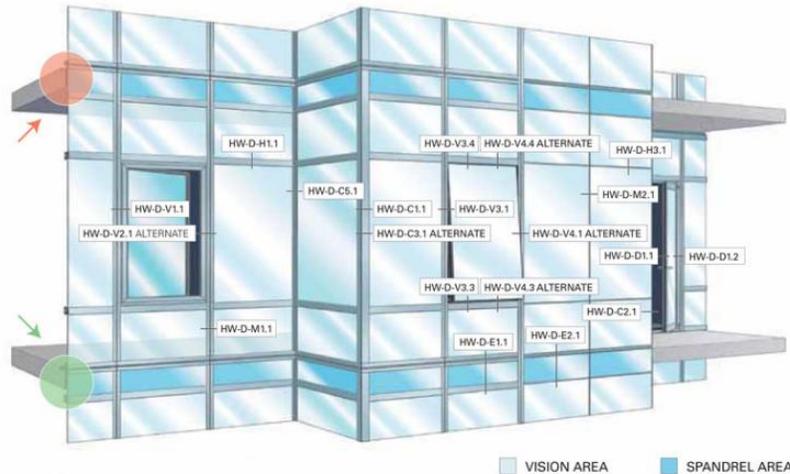
• CONCEALED "ZERO SIGHT-LINE" OPERABLE VENTS



3D IMAGE OF SLAB EDGE ANCHOR DETAIL
HYBRID-WALL® UNDERSIDE OF SLAB



3D IMAGE OF SLAB EDGE ANCHOR DETAIL
HYBRID-WALL® TOP OF SLAB



- **Air Infiltration**

Air infiltration shall not exceed 0.03 cfm/ft² when tested in accordance with ASTM E283 with a pressure differential of 6.24 psf.

- **Water Infiltration**

There shall be no infiltration of water to the interior face of the system assembly when tested in accordance with ASTM E331. Water application (5 gal/hr/ft²) at a pressure differential up to 15 psf.

There shall be no infiltration of water to the interior face of the system assembly when tested in accordance with ASTM 501.1-83. Water application (5 gal/hr/ft²) at a pressure differential of 10 psf.

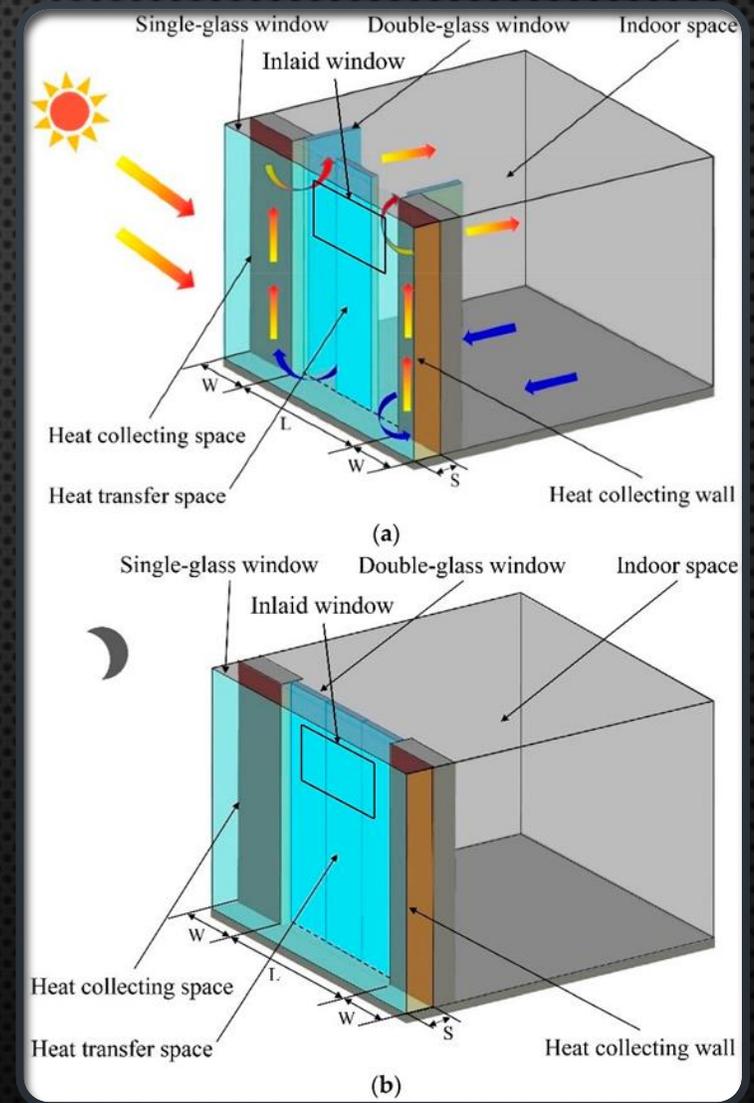


• THERMAL

• AVERAGE WEIGHTED SYSTEM "U" VALUE FOR THE WALL ASSEMBLY SHALL NOT EXCEED 0.25 BTU/HR/FT²-F°.

- THIS VALUE MAY VARY ACCORDING TO GLASS SELECTION, FRAMING CONFIGURATION AND SPANDREL TO VISION RATIOS.
- CONDENSATION RESISTANCE FACTOR (CRF) – MINIMUM 75 WHEN TESTED IN ACCORDANCE WITH AAMA 1503-98. VALUES MAY INCREASE ACCORDING TO FRAME CONFIGURATION.

• <https://www.youtube.com/watch?v=MMdrpx2rEGo>



Resources

- <https://www.gkdmetalfabrics.com/pdf/literature/Overview%202015R1.pdf>
- https://www.gkdmetalfabrics.com/metalfabrics/aluminum_acoustic-mesh-panel.html
- <http://www.sotawall.com/product/hybrid-wall/>
- <https://www.youtube.com/watch?v=V4q-fGHGwQ4>
- <https://www.youtube.com/watch?v=MMdrpx2rEGo>