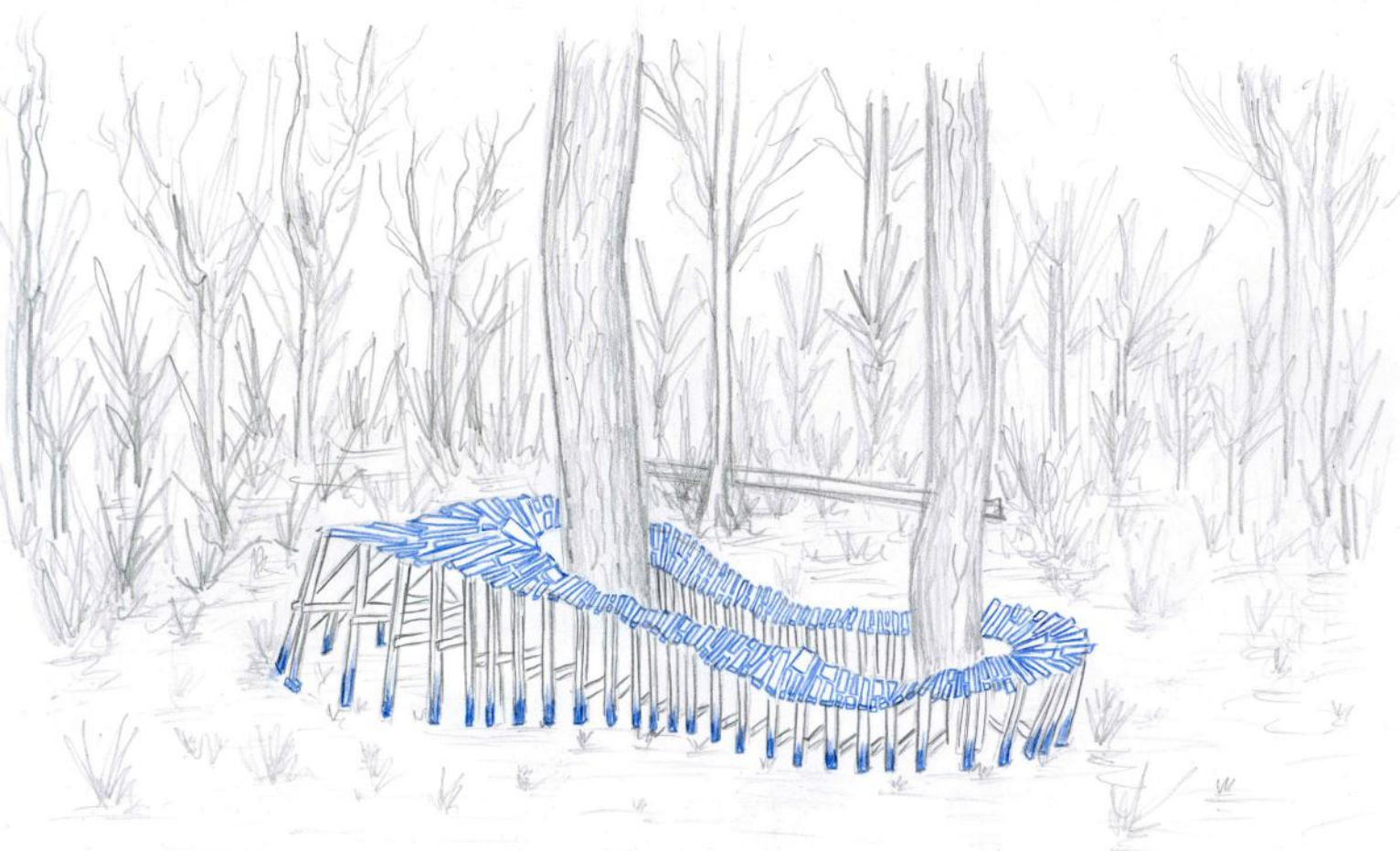


# WOOD PROTECTION

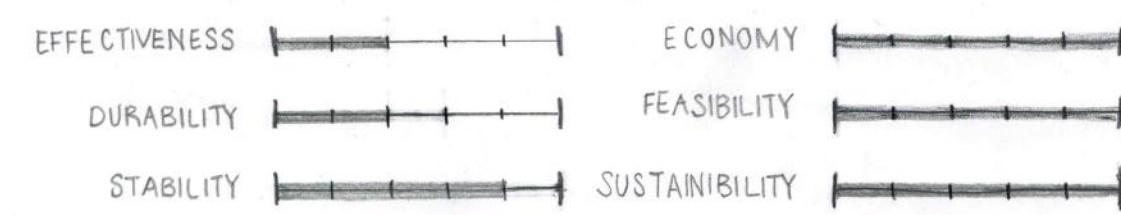
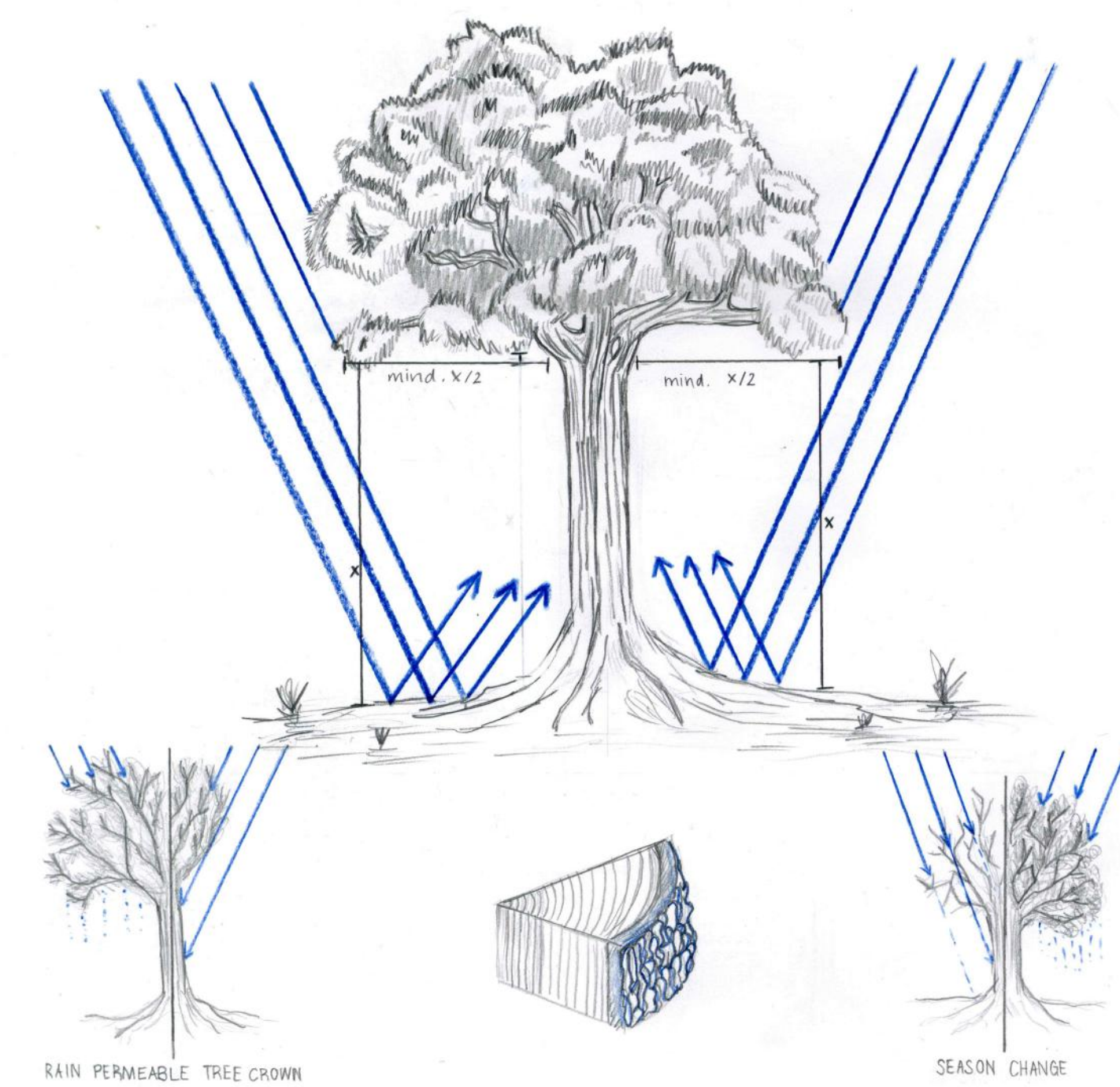
## HOW CAN WE PROTECT THE WOOD FROM ABOVE AND BELOW?



AS WE QUICKLY AGREED ON WOOD AS THE MATERIAL OF OUR FURNITURE FOR DESIGN REASONS, AND TO REUSE WASTE PIECES, I FOCUSED MY RESEARCH ON THE MEASURES THAT COULD BE TAKEN TO PROTECT THE WOOD. ON THE ONE HAND, THE MATERIAL IS ATTACKED FROM BELOW BY SPLASHING WATER AND HARMFUL ORGANISMS FROM THE GROUND. AT THE SAME TIME FROM ABOVE, MAINLY BY RAIN. THROUGH MY RESEARCH I WANTED TO POINT OUT VARIOUS PREVENTIVE MEASURES THAT CAN BE TAKEN TO PROTECT THE WOOD FROM THE PROBLEMS MENTIONED. I COMPARED THEM WITH EACH OTHER ON THE BASIS OF DIFFERENT FACTORS TO FINALLY DETERMINE WHAT WAS APPLICABLE FOR OUR PROJECT.

CHAIR OF ARCHITECTURAL BEHAVIOUROLOGY, MIDREVIEW 2, FS24, FELLMANN MATILDA

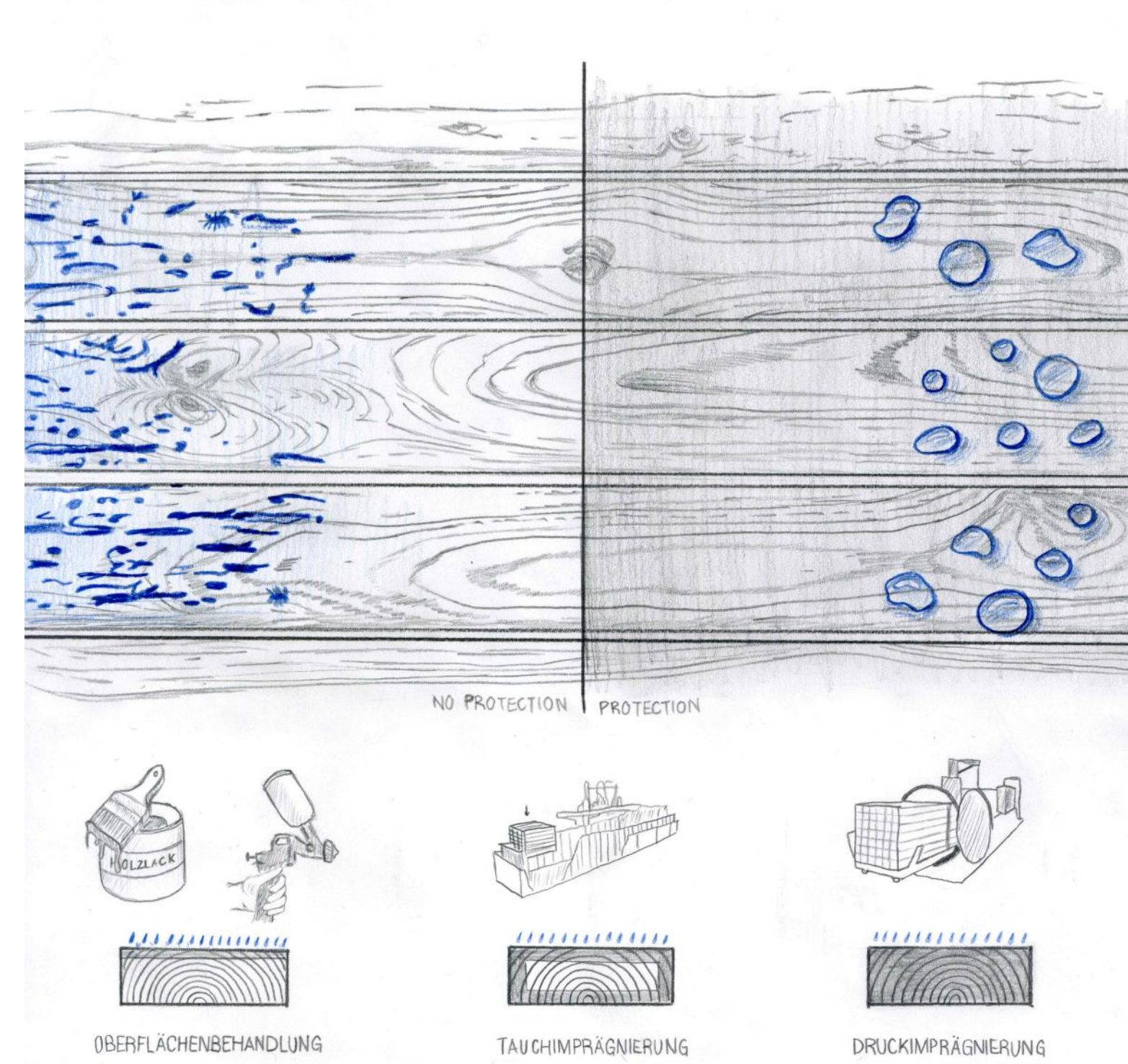
## NATURAL PROTECTION



CONCLUSION: AS THIS PROTECTION IS PROVIDED BY THE FOREST ITSELF, IT IS NOT ASSOCIATED WITH ANY COSTS / EFFORT, BUT DEPENDING ON THE SEASON, WEATHER CONDITIONS AND SIZE OF THE TREE, MORE OR LESS HELPFUL.

1/8 HOW CAN WE PROTECT THE WOOD FROM ABOVE?

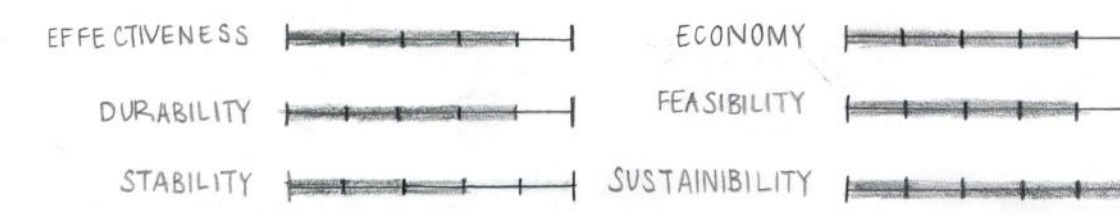
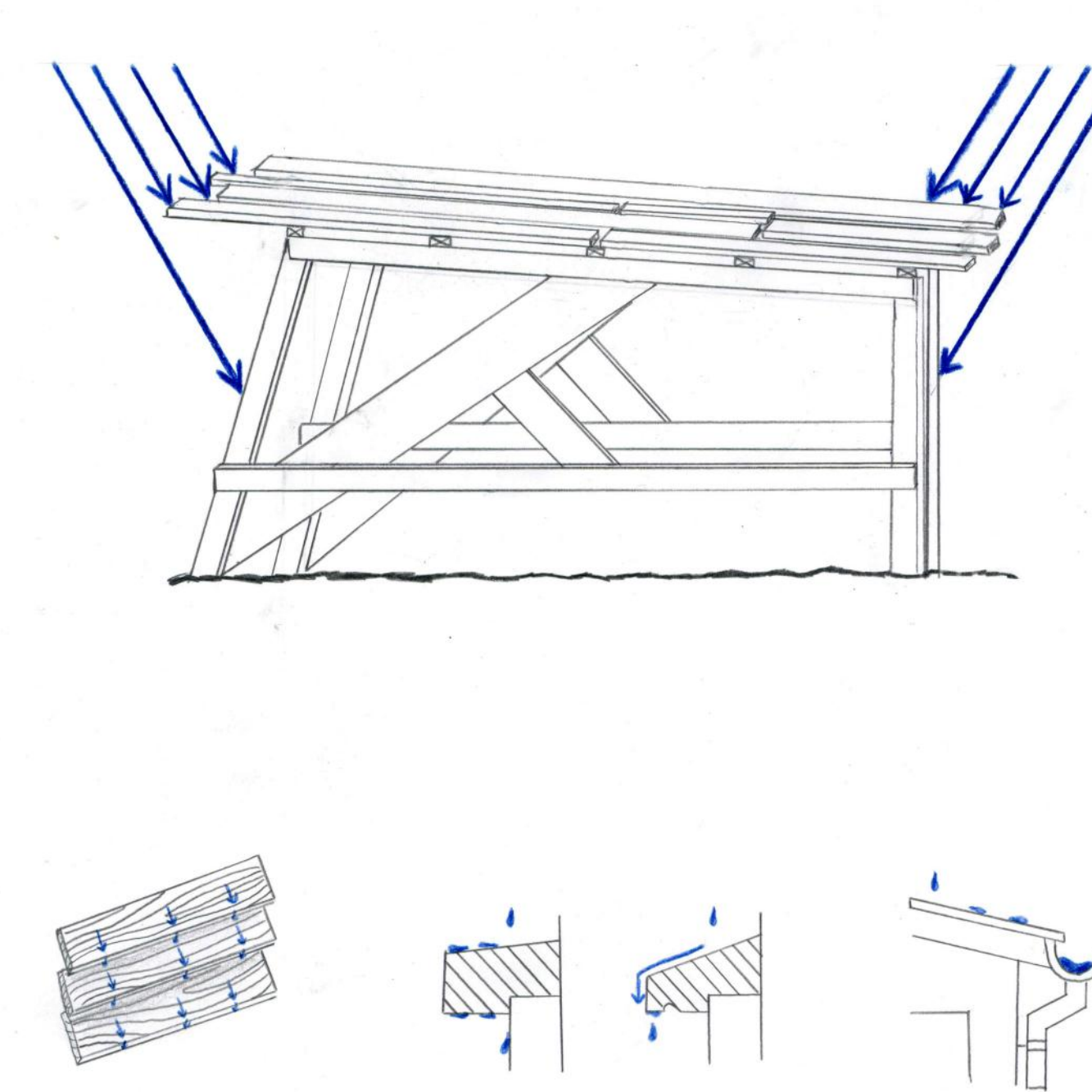
## CHEMICAL PROTECTION



CONCLUSION: A VERY EFFECTIVE METHOD THAT IS EASY TO APPLY, BUT EVENTUALLY WASHES OFF IN THE RAIN AND DAMAGES THE FOREST GROUND.

2/8 HOW CAN WE PROTECT THE WOOD FROM ABOVE?

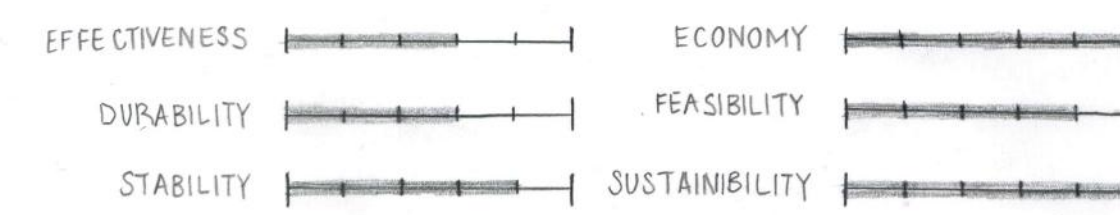
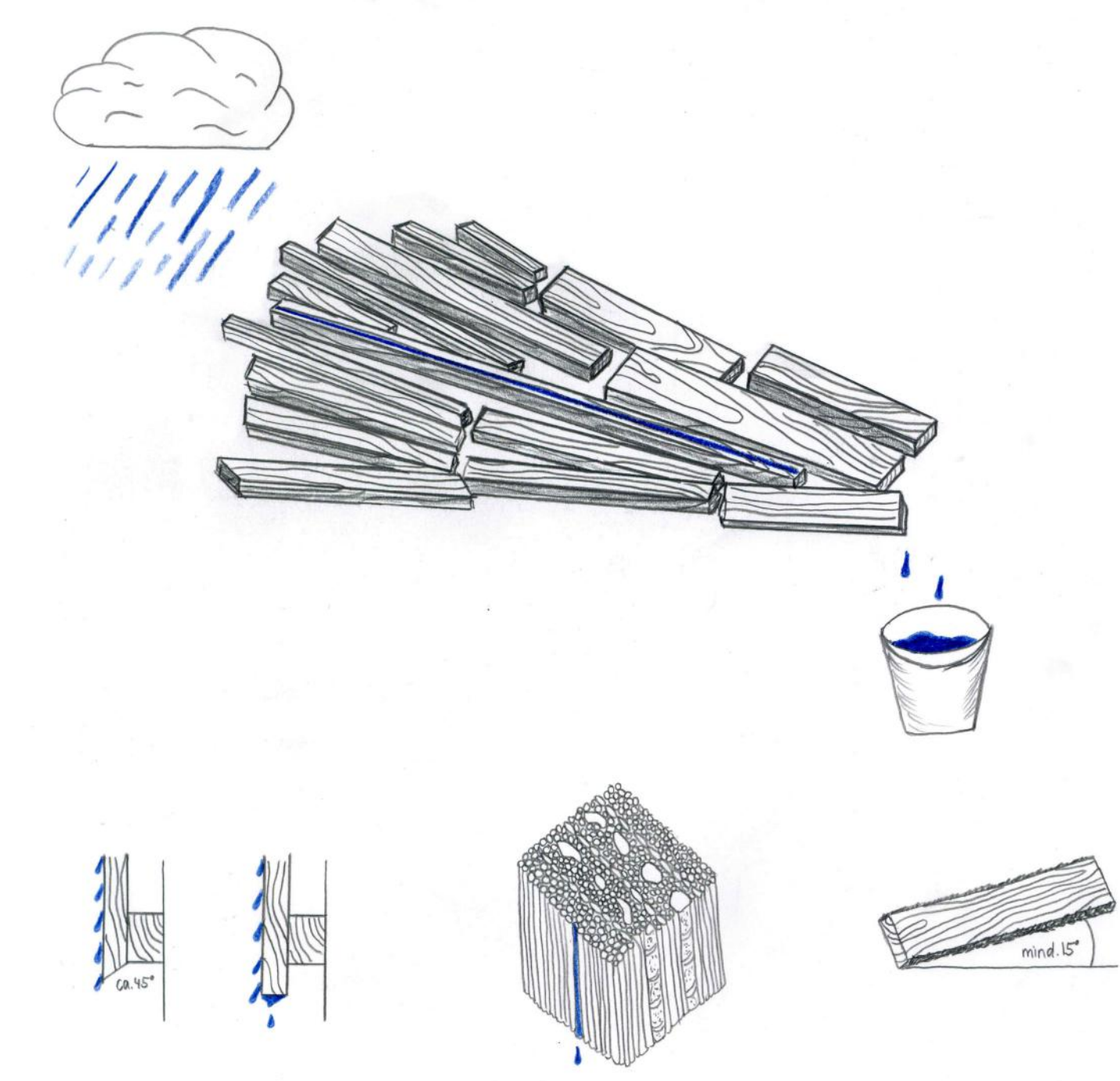
## CANOPY



CONCLUSION: BY ADDING A CANOPY / OVERHANGING TIMBER, THE WOOD UNDERNEATH IS LESS AFFECTED BY THE RAIN.

3/8 HOW CAN WE PROTECT THE WOOD FROM ABOVE?

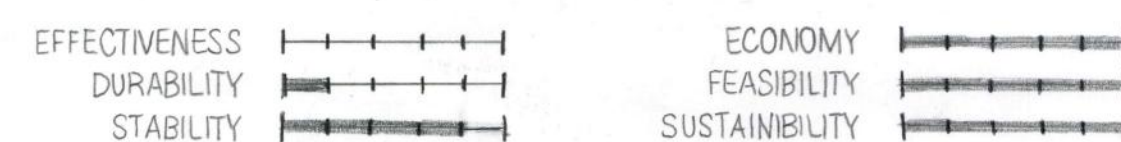
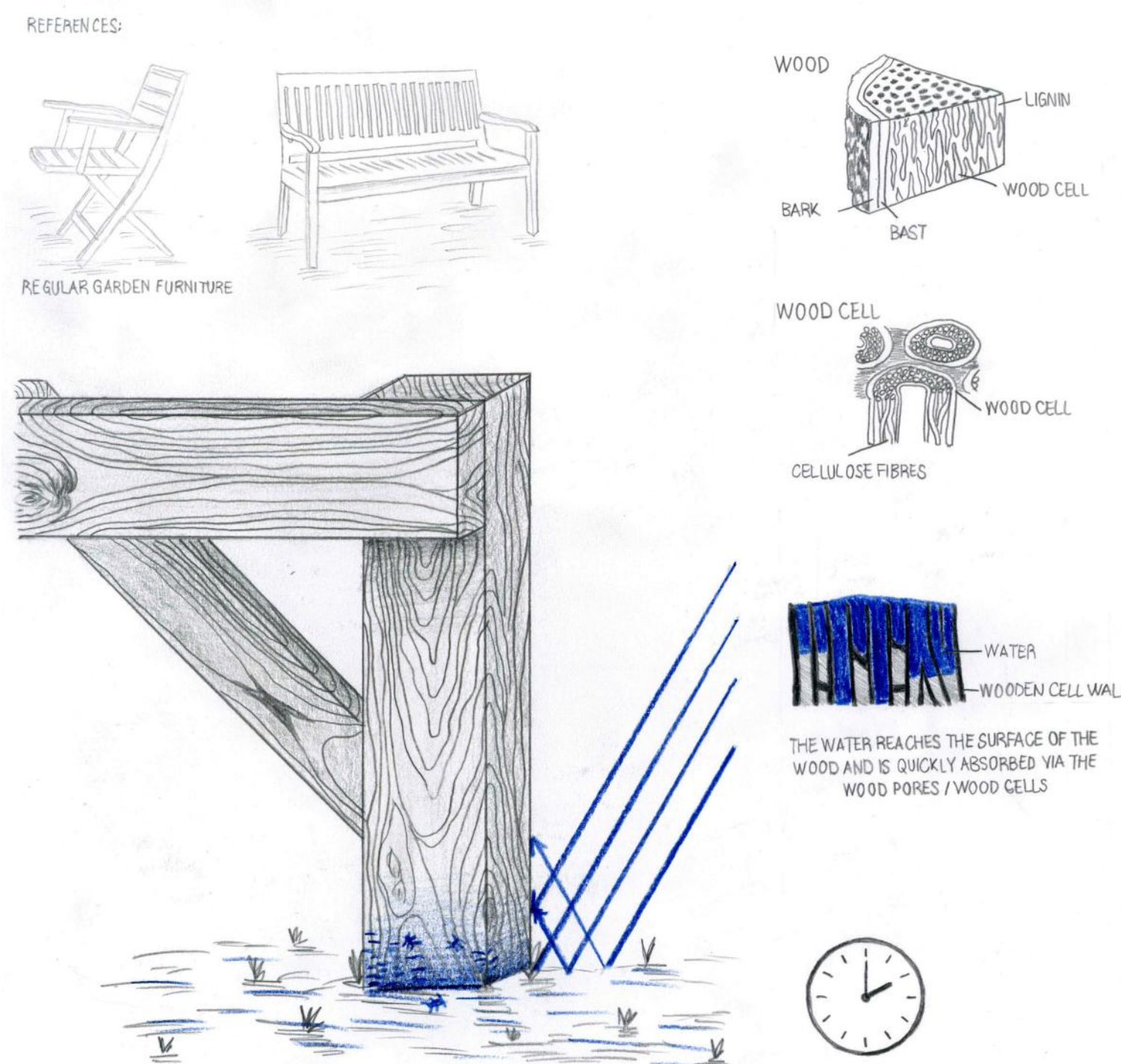
## WOOD ALIGNMENT



CONCLUSION: BY PLACING THE WOOD AT A SLIGHT ANGLE, YOU CAN PROTECT THE WOOD FROM STANDING WATER WITH LITTLE EFFORT. THE WATER STILL ENTERS THE WOOD BUT RUNS OFF FASTER DUE TO THE GRADIENT.

4/8 HOW CAN WE PROTECT THE WOOD FROM ABOVE?

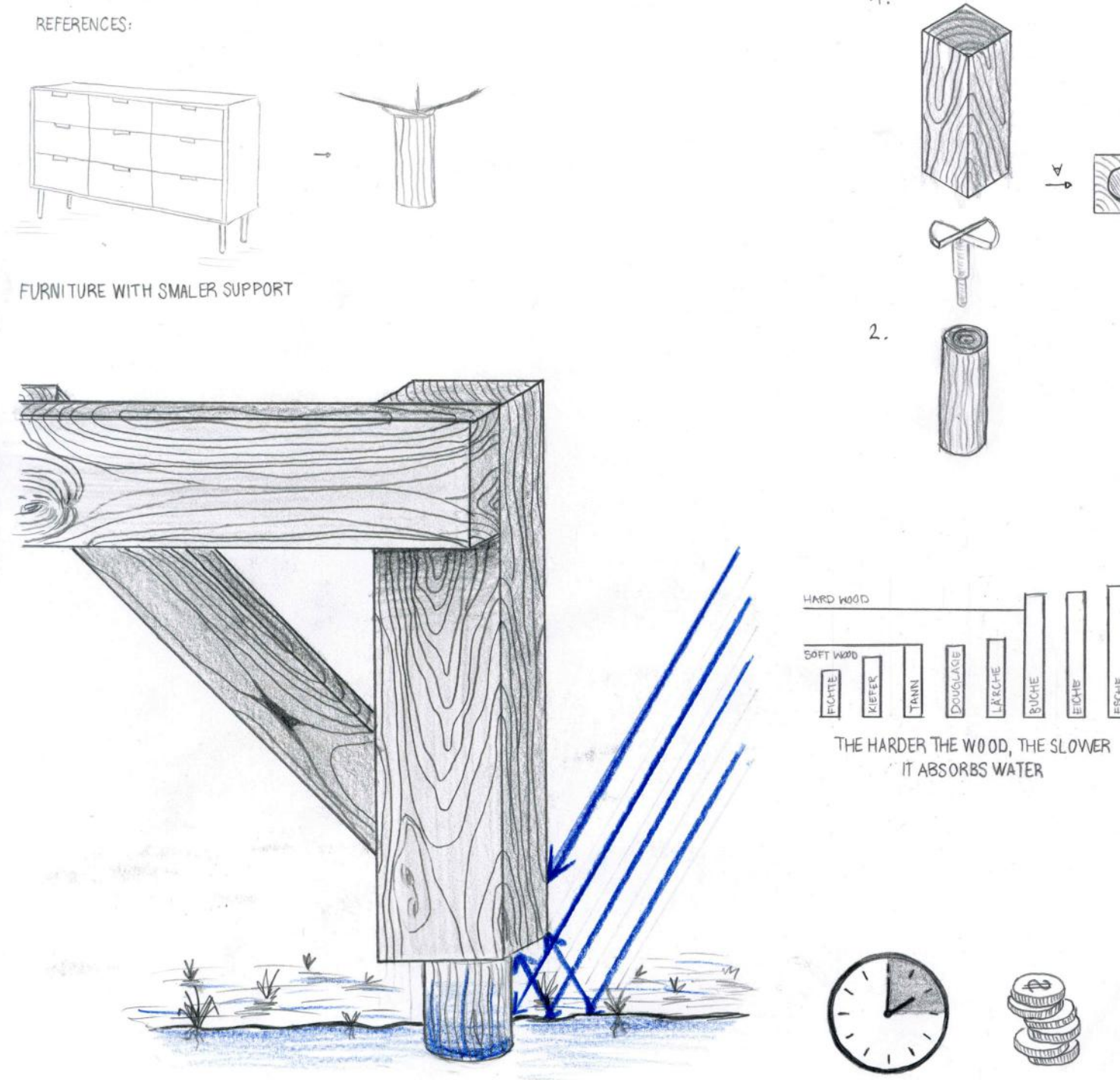
## NO BASE



CONCLUSION: A METHOD WITHOUT COSTS AND EFFORT, BUT BECAUSE THE END GRAIN HAS DIRECT CONTACT TO THE GROUND, THE WATER WILL RISE THROUGH THE WOOD AND THEREFORE IS LESS EFFECTIVE.

5/8 HOW DO WE PROTECT THE WOOD FROM BELOW?

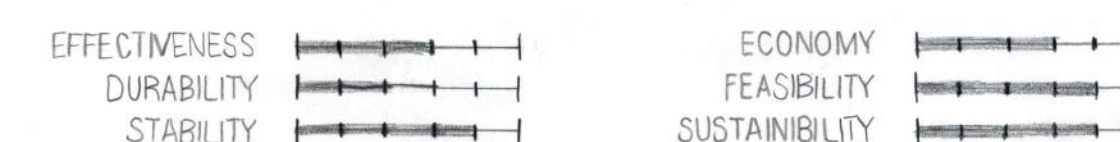
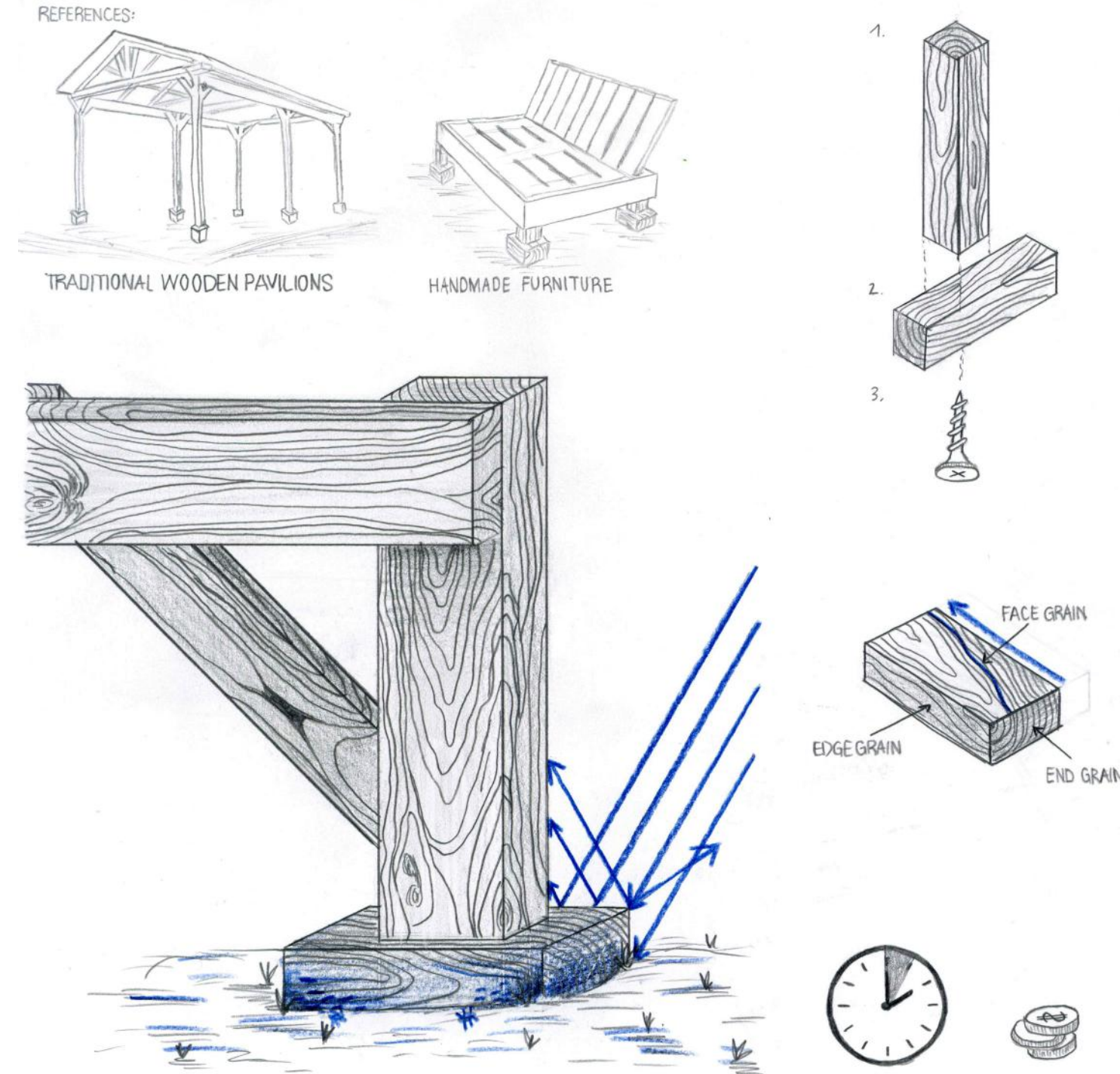
## DOWEL



CONCLUSION: THE DOWEL, WHICH IS MADE OF HARD WOOD THAT ABSORBS WATER MORE SLOWLY, PREVENTS DIRECT CONTACT WITH THE GROUND AND SLOWS DOWN THE WATER ABSORPTION OF THE MAIN WOOD, AS THE SUPPORTS ON THE GROUND ARE SMALLER, IT WILL ANCHOR MORE INTO THE GROUND AND THEREFORE DAMAGE THE ROOTS MORE.

6/8 HOW DO WE PROTECT THE WOOD FROM BELOW?

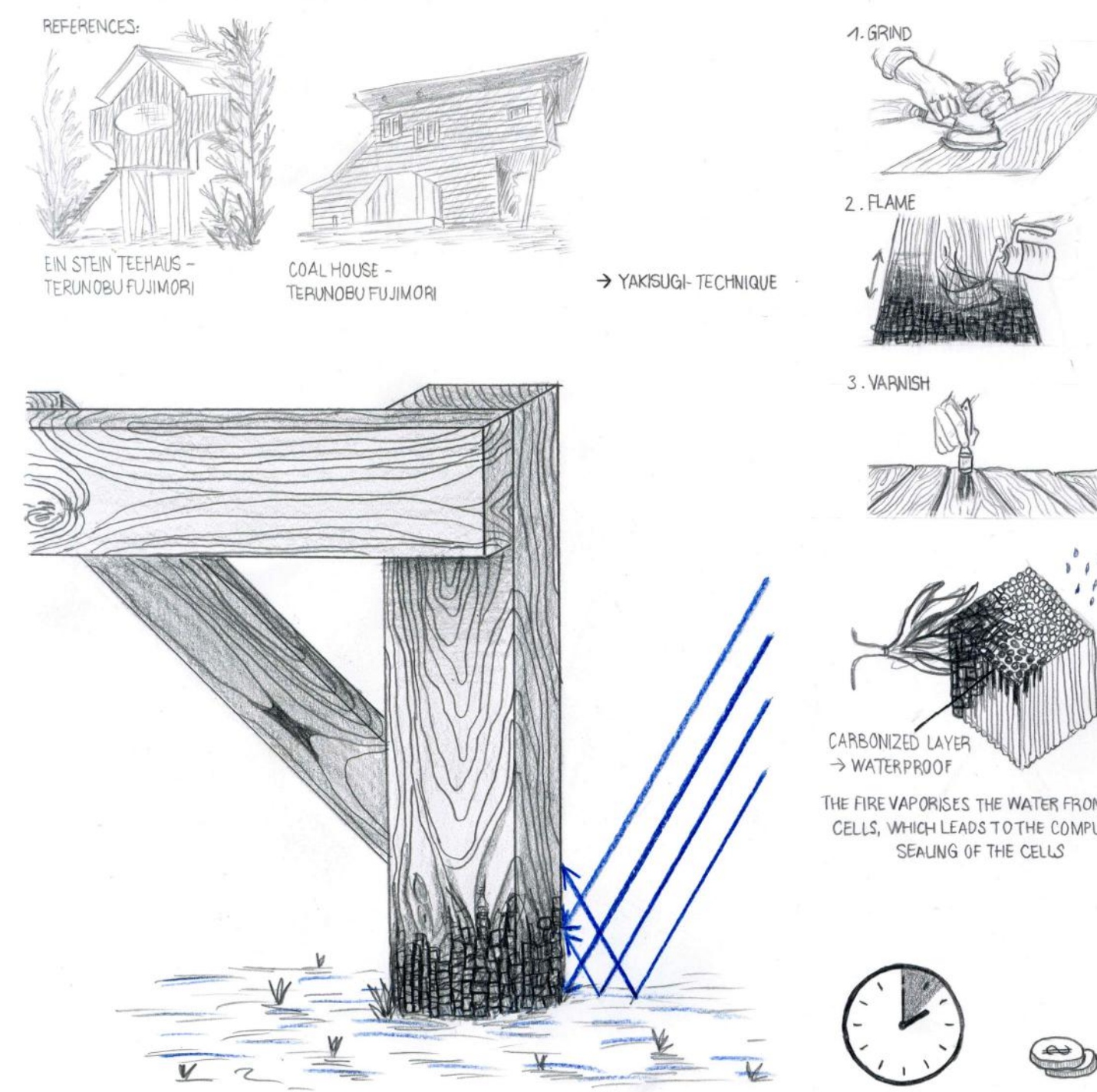
## WOOD BASE



CONCLUSION: DIFFERENT FIBRE DIRECTION OF THE EXTRA PIECE OF WOOD TOUCHING THE FLOOR, PREVENTS THE WOOD ABOVE FROM WATER ABSORPTION AND ROT.

7/8 HOW DO WE PROTECT THE WOOD FROM BELOW?

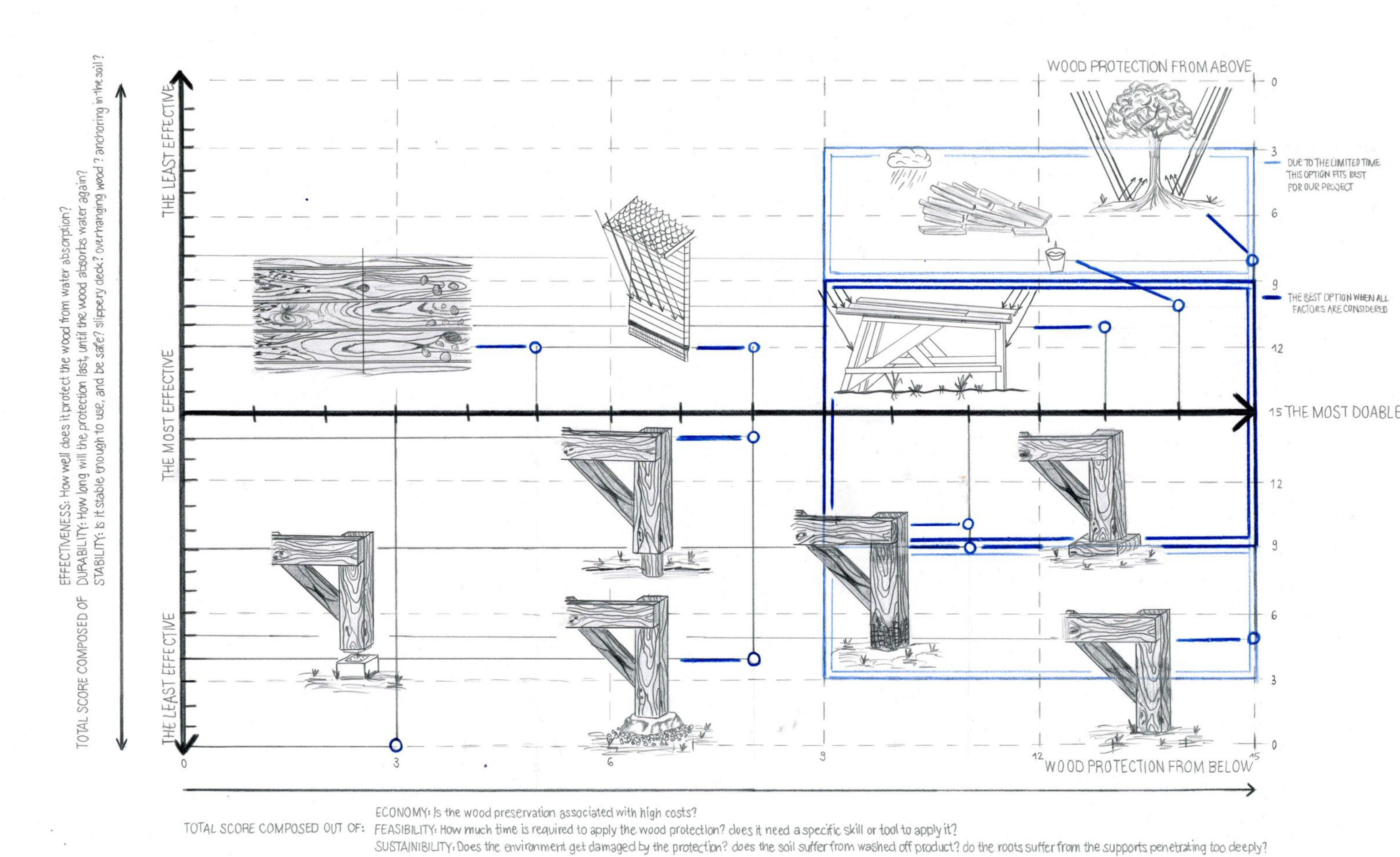
## BURNED WOOD



CONCLUSION: THE BURNED PART AND THEREFORE THE SEALED CELLS OF THE WOOD TOUCH THE GROUND, THIS, DEPENDING ON HOW DEEP THE FIRE GOES INTO THE WOOD, SLOWING DOWN OR EVEN PREVENTING WATER ABSORPTION IN THE WOOD.

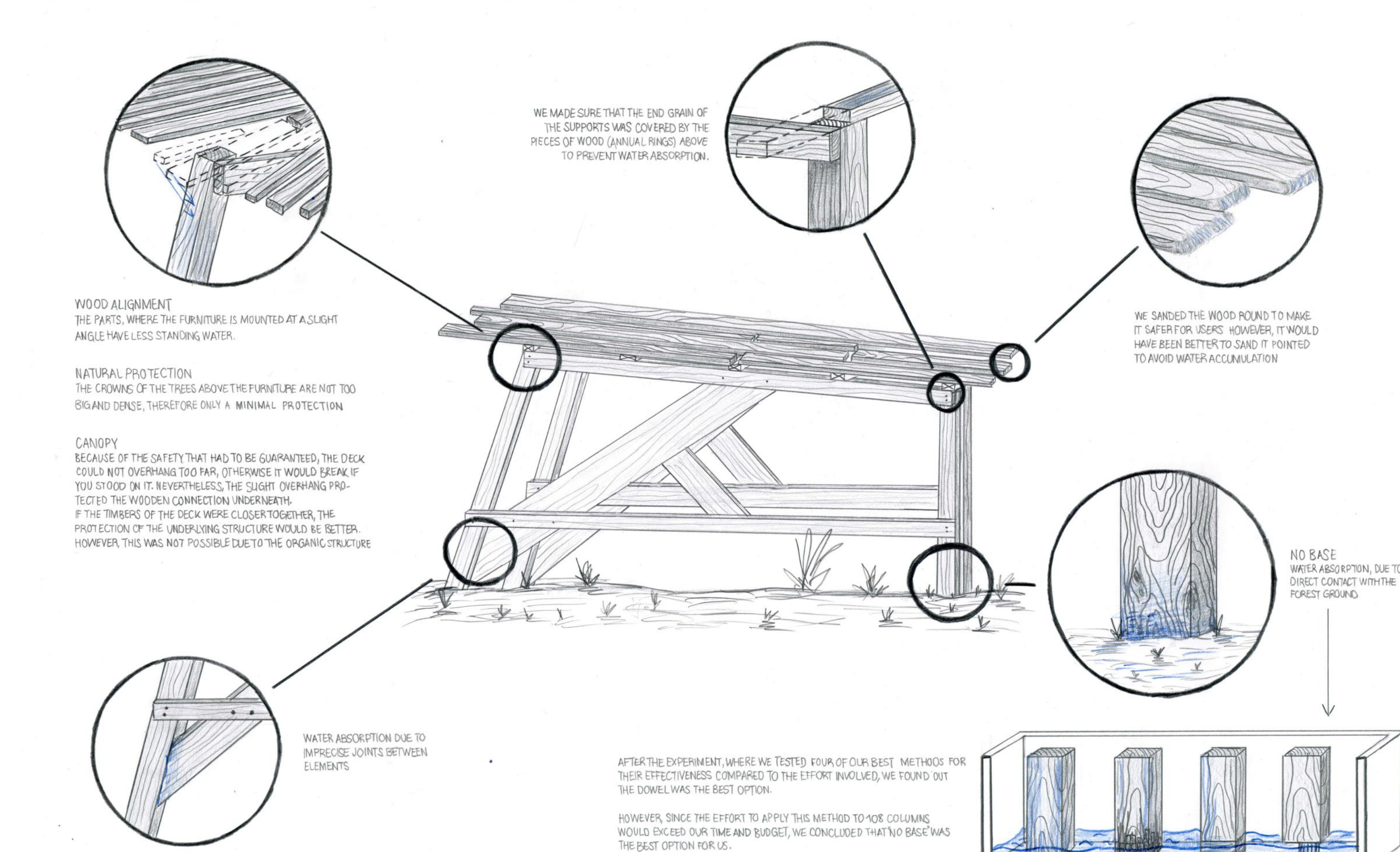
8/8 HOW DO WE PROTECT THE WOOD FROM BELOW?

## GRAPH



1/2 HOW DO WE PROTECT THE WOOD FROM ABOVE AND BELOW?

## IMPLEMENTATION AND OBSERVATION



2/2 HOW DO WE PROTECT THE WOOD FROM ABOVE AND BELOW?