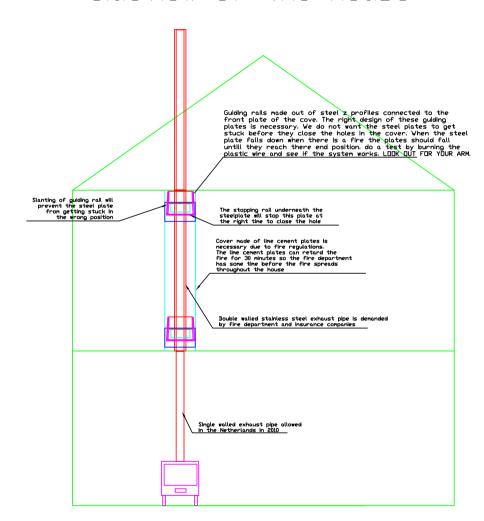
## Getting extra heat out of A wood stove and still conform to all regulations

Frontview of the house

This thin curved plate nade of steel will direct the heated up air inside the chinney into the room. By laying a fire resistant blanket on top of this steel plate you will devide the chinney into different areas. This will lower the chance of spreading of the fire through the chinney TOP FLOOR The air inside the enclosure gets heated by the hot air inside the outlet-pipe, the air will rise and flow out of the hole in the cove. Heat that normally would heat up the environment is now used to heat up the house. A steel plate is hold up to a tinn nylon wire with not converted plate with on top of it a fire resistant blanket will inheal the chimney which rakes the safety level. This will not be the possible to suck out air from inpertanen the floor of the second level and the ceiling of the first level. You do not want to heat up this air. This air should stay there to keep heating costs low. Cold air from inside the room (just above floor level) gets sucked into the chimney and will be heated by the hot air in the exhaust pipe of the fire place. SECOND FLOOR Fire regulations demand a double walled outlet-pipe with a cove for all levels above the First Floor. The flame retardant cove will give fire departments more the to extinguish the fire before it spreads throughout the house, that is why you always have to place a flame retardant construction around the outlet-pipe. I made two holes in the front cover to use the heat in the outlet pipe to heat up the second floor. To neet up with demands of the Fire department and for the Insurance of the house a clever system was necessary for closing the not allowed holes in the cover. This system consists of two steel plates held upward by a thin nylon whe. The steel plates are positioned above the holes and are placed in a guiding rall. When a fire occurs inside the cover, the nylon wire will nelt and break Graytv which is always there will outlit the two steel plates down. break Gravity which is always there will pull the two steel plates down. Due to a guiding system these plates only fall a little downward. Due to this the cover is closed. Both ny insurance company (Centraal Beheer) and the fire department accepted this solution. Vood stove for CD2 neutral heating FIRST FLOOR

Sideview of the house



ABOVE YOU SEE A VERY EFFECTIVE WOOD STOVE WITH HIGH EFFICIENCY. THE HIGH EFFICIENCY IS REACHED BY BUYING A WELL DESIGNED WOOD STOVE IN COMBINATION WITH AN EFFECTIVE SYSTEM TO EXTRACT MOST OF THE HEAT OUT OF THE OUTLET-PIPE. YOU HEAT YOUR HOUSE MORE AND THE ENVIRONMENT LESS

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TIP: INFORM AT YOUR INSURANCE COMPANY IF THEY ACCEPT THIS DESIGN OF A CHIMNEY.
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