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Advice for Sliding Gates on Slopes

Basic physics have taught us that things with wheels are pulled down slopes by gravity. A sliding gate on a slope is exactly the same.

Once its moving downhill, it requires substantially more force from the gate motor to bring it to a stop, and to start a stationary gate moving uphill takes considerably more force than it would do on a level ground. Even to keep it stationary requires energy from the gate motor.
Sliding gates on slopes produce incredible shearing forces and consequently acts as a horizontal guillotine. Even with safety edges it would probably be impossible to guarantee that such an installation could meet current requirements for gate automation safety.

With this in mind, please note:

- Do not install on slopes i.e. any surfaces that are not perfectly level
- Do not install door or gate leaves on tilted surfaces
- Do not install onto gates on either an upward or downward slope (i.e. that are not on flat, level ground)

The best advice is, if you have a slope and cannot level the ground use a cantilever gate.