

Damage classification of rotor blade inspections

Class	Designation	Call to action	Damage pattern
1	slight damage	no measure/action are necessary	small damages / defects in the top coat and areas with small pores
2	slight significant damage	a repair is recommended	Gelcoat damage without exposed laminate; Topcoat damage
3	significant damage	a imminent repair is necessary	Grease and oil spills; visible laminate gelcoat damage (matrix has no resistance to UV radiation); gelcoat eruptions at the trailing edge (cause of noise emissions); longitudinal cracks at the front or rear edge; transverse cracks on the aerodynamic shell; open front or rear edge; damage to the erosion protection film
4	very significant damage	the damage should be repaired as soon as possible	Longitudinal cracks at the front or rear edge; transverse cracks on the shell exceeding a critical length; open leading or trailing edge exceeding a critical length; lightning damage that consequential damage is possible
5	critical damage	the immediate stoppage of the wind turbine must be initiated	Damage due to a lightning strike; all structural damage that can lead to leaf failure

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