

Table 1-3-8: Application Criteria of Blowing Snow Control Facilities (covering road structures and ancillary facilities)

Blowing-snow control facilities														
Selection criteria					Road structure			Snowbreak woods		Snow fence			Delineation facilities	Large-scale facility
Cross-sectional profile	Target of countermeasure	Prevailing wind direction	Land available?	No. of lanes*	Gentle slope fill	Drift-control fill	Drift-free cut	Standard-width woods	Narrow-width woods	Trad. collector snow fence	Collector snow fence	Blower snow fence**		
Fill	Snowdrifts	Perpendicular	Yes	Multiple lanes or one lane each way	○	○	—	⊙	×	○	○	×	△	○
			No	Multiple lanes or one lane each way	×	⊙	—	×	×	×	○	×	△	
		Shallow angle	Yes	Multiple lanes or one lane each way	○	○	—	⊙	×	○	○	×	△	
			No	Multiple lanes or one lane each way	×	⊙	—	×	×	×	○	×	△	
	Snowdrifts & poor visibility	Perpendicular	Yes	Multiple lanes or one lane each way	○	○	—	⊙	×	○	○	×	△	○
			No	Multiple lanes or one lane each way	×	○	—	×	×	×	⊙	×	△	
		Shallow angle	Yes	Multiple lanes or one lane each way	○	○	—	⊙	×	○	○	×	△	
			No	Multiple lanes or one lane each way	×	○	—	×	×	×	⊙	×	△	
	Poor visibility	Perpendicular	Yes	Multiple lanes	○	○	—	○	⊙	○	○	×	○	○
				One lane each way	○	○	—	○	⊙	○	○	○	○	
			No	Multiple lanes	×	○	—	×	⊙	×	○	×	○	
				One lane each way	×	○	—	×	⊙	×	○	○	○	
		Shallow angle	Yes	Multiple lanes or one lane each way	○	○	—	○	⊙	○	○	×	○	
			No	Multiple lanes or one lane each way	×	○	—	×	⊙	×	○	×	○	
Flat	Snowdrifts	Perpendicular	Yes	Multiple lanes or one lane each way	—	○	—	⊙	×	○	○	×	△	○
			No	Multiple lanes or one lane each way	—	⊙	—	×	×	×	○	×	△	
		Shallow angle	Yes	Multiple lanes or one lane each way	—	○	—	⊙	×	○	○	×	△	
			No	Multiple lanes or one lane each way	—	⊙	—	×	×	×	○	×	△	
	Snowdrifts & Poor visibility	Perpendicular	Yes	Multiple lanes or one lane each way	—	○	—	⊙	×	○	○	×	△	○
			No	Multiple lanes or one lane each way	—	○	—	×	×	×	⊙	×	△	
		Shallow angle	Yes	Multiple lanes or one lane each way	—	○	—	⊙	×	○	○	×	△	
			No	Multiple lanes or one lane each way	—	○	—	×	×	×	⊙	×	△	
	Poor visibility	Perpendicular	Yes	Multiple lanes	—	○	—	○	⊙	○	○	×	○	○
			No	One lane each way	—	○	—	○	⊙	○	○	○	○	
			Yes	Multiple lanes	—	○	—	×	⊙	×	○	×	○	
			No	One lane each way	—	○	—	×	⊙	×	○	○	○	
		Shallow angle	Yes	Multiple lanes or one lane each way	—	○	—	○	⊙	○	○	×	○	
			No	Multiple lanes or one lane each way	—	○	—	×	⊙	×	○	×	○	
Cut	Snowdrifts	Perpendicular	Yes	Multiple lanes or one lane each way	—	—	○	⊙	×	○	○	×	△	○
			No	Multiple lanes or one lane each way	—	—	×	×	×	×	⊙	×	△	
		Shallow angle	Yes	Multiple lanes or one lane each way	—	—	○	⊙	×	×	○	×	△	
			No	Multiple lanes or one lane each way	—	—	×	×	×	×	⊙	×	△	
	Snowdrifts & Poor visibility	Perpendicular	Yes	Multiple lanes or one lane each way	—	—	○	⊙	×	○	○	×	△	○
			No	Multiple lanes or one lane each way	—	—	×	×	×	×	⊙	×	△	
		Shallow angle	Yes	Multiple lanes or one lane each way	—	—	○	⊙	×	×	○	×	△	
			No	Multiple lanes or one lane each way	—	—	×	×	×	×	⊙	×	△	
	Poor visibility	Perpendicular	Yes	Multiple lanes or one lane each way	—	—	○	○	×	○	○	×	⊙	○
			No	Multiple lanes or one lane each way	—	—	×	×	×	×	○	×	⊙	
		Shallow angle	Yes	Multiple lanes or one lane each way	—	—	○	○	×	×	○	×	⊙	
			No	Multiple lanes or one lane each way	—	—	×	×	×	×	○	×	⊙	

Legend:

⊙: Recommended, in principle.

○: Acceptable, but it is necessary to examine applicability, taking detailed local conditions into consideration.

×: Unacceptable, in principle.

△: Acceptable for combined use as a complementary snow-control facility with facilities denoted with ⊙ or ○.

—: Acceptable, in principle.

Note: The above table shows standards for selecting blowing-snow control facilities.

* Additionally, road width and presence or absence of median should be taken into consideration.

** Maintenance including snow removal at the bottom part is necessary.