



Class II Division I Hazardous Location Information

Explanation
Specification
Certification

Combustible Dusts

1. Where combustible dust is present in the air under normal operating conditions in such a quantity as to produce explosive or ignitable mixtures. This could be on a continuous, intermittent or periodic basis.
2. Where an ignitable and/or explosive mixture could be produced if a mechanical failure or abnormal machinery operation occurs.
3. Where electrically conductive dusts in hazardous concentrations are present.

A Hazardous Location Requires:



Ignition Source

1. There must be Fuel to burn.
2. There must be Air to supply oxygen.
3. There must be Heat to start and continue the combustion process.

Class II Groups

Group E	Group F	Group G
<ul style="list-style-type: none"> • Aluminum • Magnesium • Commercial Alloys • Combustible • Metal Dusts 	<ul style="list-style-type: none"> • Coal • Carbon Black • Charcoal • Coke Dusts • Combustible • Carbonaceous Dusts 	<ul style="list-style-type: none"> • Flour • Grain • Wood • Plastic • Chemicals • Other Combustible Dusts

COMBUSTIBLE DUST Volatility Temperature Chart		
Dust Type by Volatility	Typical Self Ignition Temperature	
	Cloud	Layer
Lignite	380°C / 716°F	225°C / 437°F
Lead	460°C / 860°F	240°C / 464°F
Cellulose	490°C / 914°F	430°C / 806°F
Flour	490°C / 914°F	430°C / 806°F
Cocoa	500°C / 932°F	200°C / 392°F
Polyacrylonitrile	540°C / 1,004°F	400°C / 752°F
Soya Meal	540°C / 1,004°F	340°C / 644°F
Zinc	570°C / 1,058°F	440°C / 824°F

T - RATING CHART		
T-CODES NEC 505	T-CODES NEC 500	MAX Surface Temperature
T2	T2	300°C / 572°F
	T2A	280°C / 536°F
	T2B	260°C / 500°F
	T2C	230°C / 446°F
T3	T2D	215°C / 419°F
	T3	200°C / 392°F
	T3A	180°C / 356°F
	T3B	165°C / 329°F
T4	T3C	160°C / 320°F
	T4	135°C / 275°F
	T4A	120°C / 248°F
T5	T5	100°C / 212°F
T6	T6	85°C / 185°F

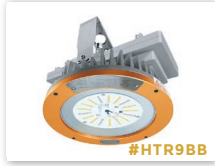
Solas Ray - CLASS II DIVISION 1 PRODUCTS



The Boss
T4, T4A / IP67



The Monitor C
T5 / IP67



The Monitor Battery Backup
T5 / IP67



The Monitor HD/IP
T4 / IP67



The Scout C
T4A / IP67



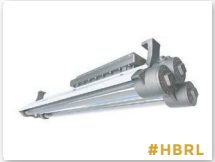
The Sentinel
T4 / IP66



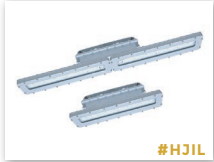
The Pilot
T4 / IP66



The Foreman
T3 / IP66



The Brute
T4 / IP66



The Steward
T4 / IP66



The Flyer
T4 / IP66



The Dominator
T5 / IP66



The Patroller
T3 / IP66



The Guide
T4 / IP66