

# CeramiFLEX<sup>®</sup> Product Specification

**A ceramic insert snowplow blade system.  
References and case studies can be provided.**

## **Product Description:**

**The CeramiFLEX<sup>®</sup> is a complete high-quality abrasion resistant rubber blade with ceramic dowels free floating throughout the vulcanized snow plow blade. The configuration is steel, rubber, ceramic. The steel is used for mounting, the vulcanized rubber blade is low noise, and the ceramic is abrasion resistant. The CeramiFLEX<sup>®</sup> ceramic insert blade system also shall include two (2) CeramiFLEX<sup>®</sup> curb cast guards, all mounting hardware (with thread locking fasteners), and installation instructions. All components are crated together in a palletized package. The blades shall be usable on any road surface and approved for high speeds.**

## **Product Specification Details:**

### **1. REFERENCES**

- 1.1 Manufacturer shall provide references for the system upon request validating wear life.

### **2. PACKAGING**

- 2.1 All blade system components are to be provided in a single box or crate comprising of:
  - a. CeramiFLEX<sup>®</sup> ceramic insert blades
  - b. (2) CeramiFLEX<sup>®</sup> curb cast guards
  - c. (1) Grade 8 hardware kit including thread locking fasteners, flat washers, and plow bolts.
- 2.2 Installation instructions included in package.

- 2.3 The blade system package is to be securely banded to a pallet providing adequate protection for common freight carrier handling, transportation, and receiving.
- 2.4 Packaging will provide adequate protection from the elements incurred during normal transportation and storage.

### 3. MAIN BLADE

- 3.1 The blade shall be a combination of steel, rubber, and ceramic
- 3.2 Dimensions: 7.65” high x 2” thick x 3’ or 4’ length
- 3.3 Tolerance between hole spacing is +/- 1/16”, non-accumulative, from center to center across full length of blade.
- 3.4 Hole size and location of holes shall be per customer’s requirements.

### 4. STEEL PLATE

- 4.1 Plate to be  $\geq$  80 HRA
- 4.2 Plate to be 5/8” thick to be correct size for 5/8” plow bolt hole
- 4.3 Plate to be bent for blade to make 90° contact with ground
- 4.4 Plate to have holes to accept a 5/8” plow bolt

### 5. RUBBER

- 5.1 Rubber to have a hardness of 85 Shore A (durometer)
- 5.2 Rubber to be vulcanized to steel plate and ceramic inserts

### 6. CERAMIC INSERTS

- 6.1 The ceramic insert shall generally comprise the following total dimensions:
  - a. Diameter: 1.00” nominal
  - b. Height: 1.00” nominal
  - c. Shape: Cylinder
- 6.2 Ceramic inserts to be stacked 2 high for a total height of 2.00”
- 6.3 Ceramic inserts to be 95% alumina corundum
- 6.4 Inserts will be spaced 2.50” on center

- 6.5 3' blade to have 14 double stacked ceramic inserts for a total of 28
- 6.6 4' blade to have 19 double stacked ceramic inserts for a total of 38

## 7. VULCANIZING

- 7.1 Bent steel plate with mounting holes to be vulcanized to rubber
- 7.2 Ceramic inserts to be vulcanized inside rubber

## 8. CeramiFLEX® GUARDS

- 8.1 Guards shall be ASTM A36 Structural Grade hot rolled flat steel.
- 8.2 Drilled and square punched with countersink to accept 5/8" Plow Bolt flush with front mounting blade surface.
- 8.3 Plate to be welded at angle to conform to angle of blade
- 8.4 Curb protection to be made of A-22 steel casting and welded on to guard
- 8.5 Guards will be Class 7 Orange™ texture powder coated to provide corrosion resistance and safer handling.

## 9. MOUNTING HARDWARE

- 9.1 The mounting hardware will consist of high-quality thread locking components consisting of Grade 8 plow bolts, all metal lock nuts and flat washers. All items to be pre-counted and sealed for corrosion resistance.

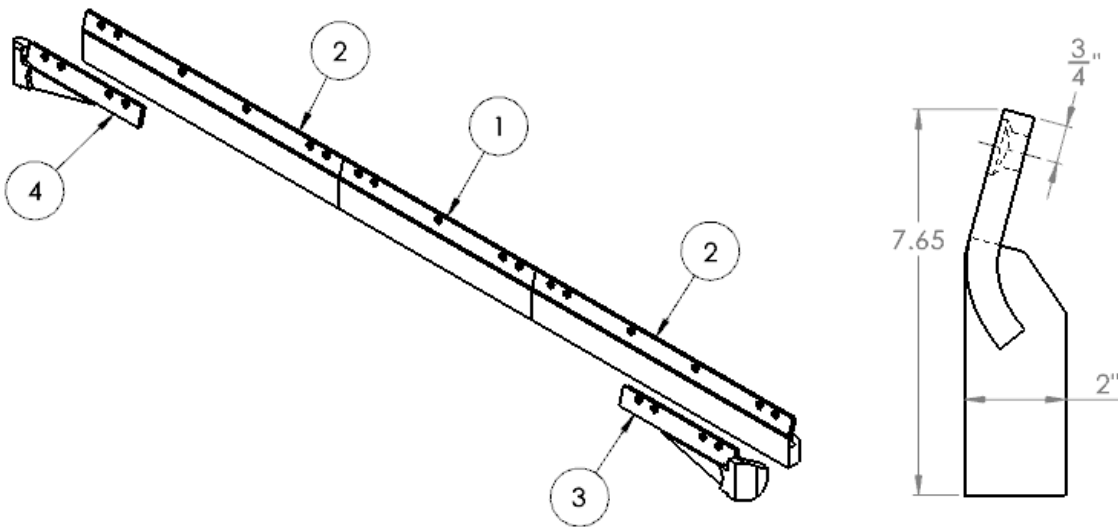
## 10. FINISHED PRODUCT

- 10.1 Finished blade shall comply with standard blade manufacturing tolerances.
- 10.2 Manufacturer's literature shall be furnished as required.

**Example of an 11 ft system**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CX44B10S4	Blade	1
2	CX44C10S4	Blade	2
3	CX6412YL	Guard	1
4	CX6412YR	Guard	1
Not Shown	KT-RM-12	Bolt Kit	1

KT-RM-12 includes:  
 (12) 5/8" x 3" Plow Bolts  
 (6) 5/8" x 3-1/2" Plow Bolts  
 (19) Lock Nuts  
 (19) Washers



**Image above shows an overview of components.**