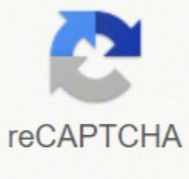


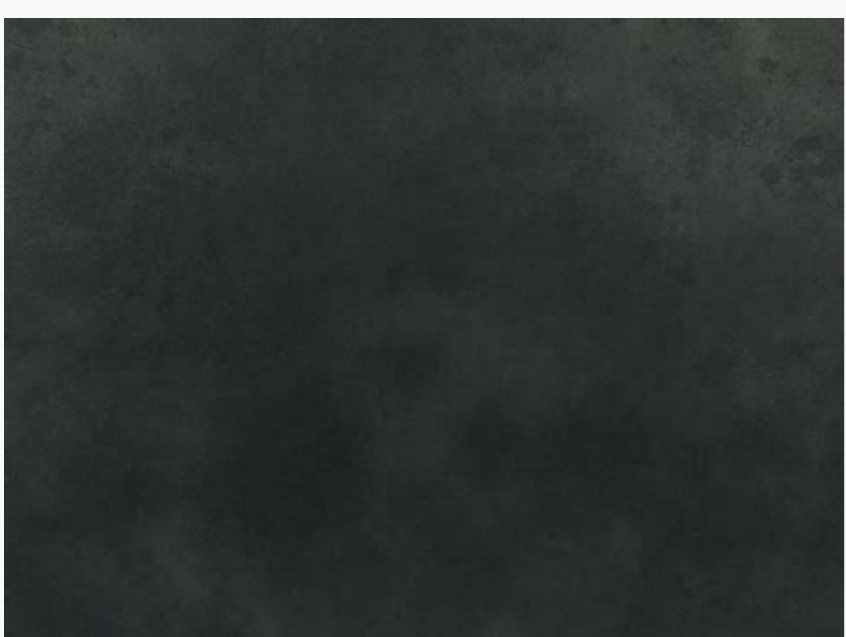
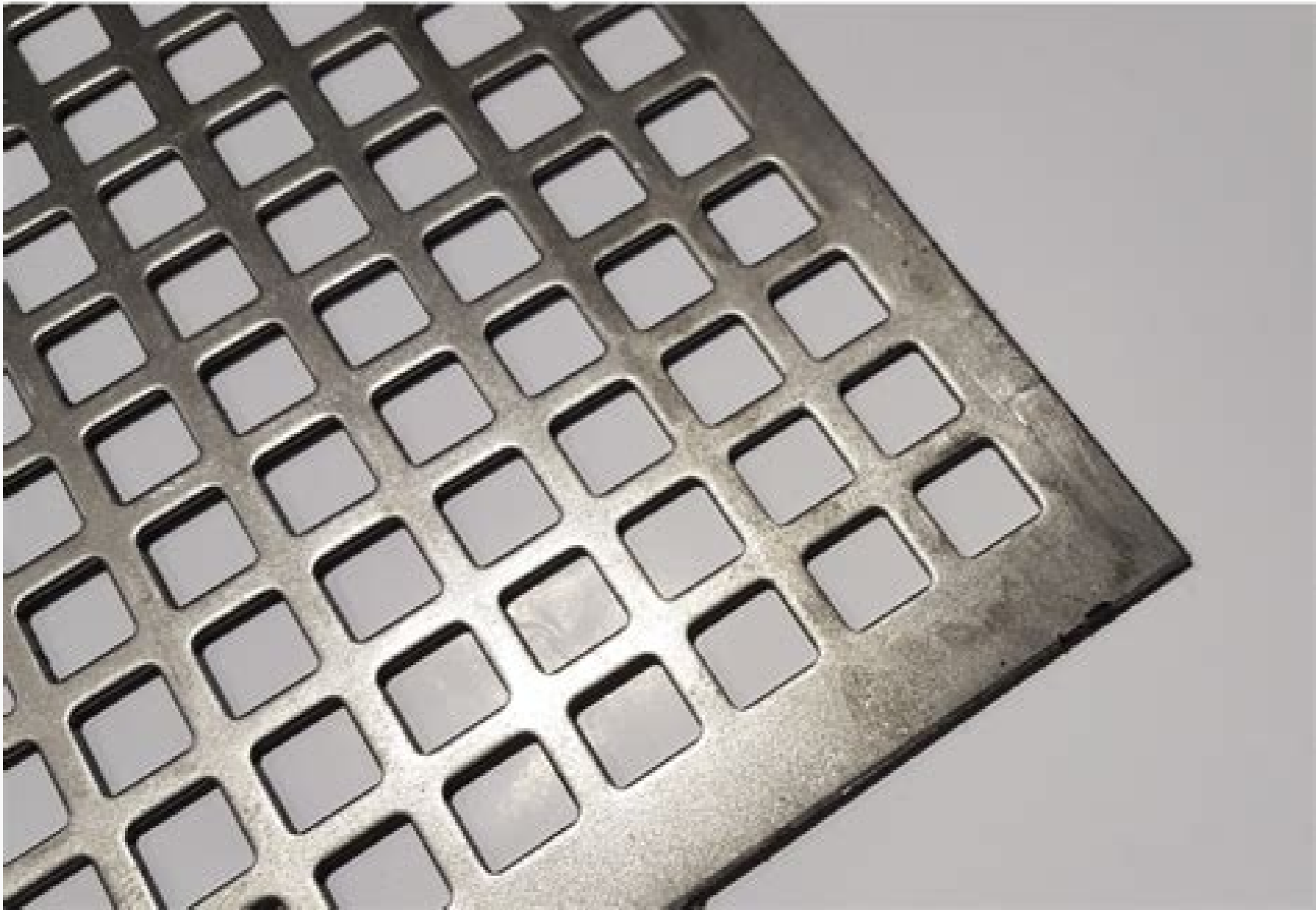


I'm not robot



Open

Blackened mild steel sheet



Page 2 Online Catalog Categories in Proto:48 Brass Models Couplers Decal Line Finescale Parts Publications Trucks Wheelsets The Proto Journal Proto:48 layouts Page 3 Click on an item below to see detailsYou may use the Add to Cart button to add an item to your shopping cart. There is no finer nor better engineered model of the wheel anywhere than Protocraft's Grabowski wheel. The flange height however is made to .0258". Each Protocraft truck kit comes with the appropriate wheelsets for the weight rating of the truck model. There are a few hundred P48 switching layouts and 15 good size P48 layouts (see the P48 layout link in this website) in the US and in a limited number, Canada, Australia and the UK. At Protocraft Decals all artwork is arranged on a sheet and printed by Microscale Industries in Southern California using the finest decal paper. In 2010, Protocraft Decals was established to supplement and finally replace the old Champ and Walthers Line, which by today's standards are on a thick stock with a too thick clear, and sometimes created with inaccurate or generic lettering. When you go to checkout, you can enter your shipping information and then print out your order form for the items. Page 4 In 2010, Protocraft Decals was established to supplement and finally replace the old Champ and Walthers Line, which by today's standards are on a thick stock with a too thick clear, and sometimes created with inaccurate or generic lettering. The Protocraft wheel profile is an accurate .115" width with 20:1 tread taper and correct fillet. Each set is finished with 5 extremely thin layer's of clear that is feathered at the edge of each block of lettering or artwork. Many HO modelers have shifted to a larger scale in order to achieve a more detailed and realistic operating model because it is much easier to detail, view, and has significantly better operating characteristics. Today Protocraft has over 2,200 repeat customers, of which 600 specifically link their purchases to Proto:48. Beginning in 2005, Protocraft began importing a new line of very accurate and highly detailed all-brass freight car models built under the direction of Protocraft in Korea, by Boo Rim Precision Models, an esteemed and accomplished model builder. Protocraft presents a further option - that of 1/4 inch finescale/Proto:48. Designed by Steve Grabowski from actual drawings of the prototype's manufacturer, Standard Steel of Pennsylvania, then converted to CAD drawings by Carl Jackson, the Protocraft wheel is an exact model of the prototype. Much of the decal line art work is created in Protocraft's shops in Sonoma, California having its own extensive research library, drawn in vector art using Adobe Illustrator, and employing hundreds of original railroad mechanical department arrangement drawings, supplied by the Pullman Library in Illinois and the Museum of Transportation in St. Louis, Missouri (AC&F), the Barringer Railroad Library at the University of Missouri, and over 5,000, 8x10 photographs, many supplied by the National Archives of Canada and the Smithsonian Museum's railroad department. The decal line is constantly being added to as well as providing accurate decals for Protocraft's brass models. Produced on Brown & Sharpe lathes from mild steel (12L14), the production of the wheel is a two-part complicated process, requiring a second collet operation to machine the back side profile. Page 5 Click on an item below to see detailsYou may use the Add to Cart button to add an item to your shopping cart. The parts are then heat-blackened with Penetrate to provide protection from corrosion and promote paint adherence, then coated with an oily wax for shipping and storage. While mostly dealing in freight cars, the decal line is expanding to include passenger trains, both heavyweight and streamline lightweight cars; as well as some steam engines; Santa Fe and Western Pacific to date. Compare the O scale truck on the left with the scale dimensioned truck on the right. Protocraft's mainstay of it's business is the Grabowski wheel. O Scale is the natural choice for these modelers. Each axle follows the correct hub

and contour based on it's tonnage rating, hence each axle installed in the respective ton-rated wheel matches the respective decal line has over 650+ individual and extensively researched decal sets for all major and many branch line railroads in the U.S. and Canada, with limited decals in HO scale. When you go to checkout, you can enter your shipping information and then print out your order form for the items. Page 8 Online Catalog Categories in Proto:48 Brass Models Couplers Decal Line Finesscale Parts Publications Trucks Wheelsets The Proto Journal Proto:48 layouts The axle, also produced from prototype drawings, is machined on a Swiss Screw Machine. While mostly dealing in freight cars, the decal line is expanding to include passenger trains, both heavyweight and streamline lightweight cars, as well as some steam engines: Santa Fe and Western Pacific to date. Much of the decal line art work is created in Protocraft's shops in Sonoma, California having its own extensive research library, drawn in vector art using Adobe Illustrator, and employing hundreds of original railroad mechanical department arrangement drawings, supplied by the Pullman Library in Illinois and the Museum of Transportation in St. Louis, Missouri (AC&F), the Barriger Railroad Library at the University of Missouri, and over 5,000, 8x10 photographs, many supplied by the National Archives of Canada and the Smithsonian Museum's railroad department. Mult-wear wheels have the thickest tire portion of the wheel and can be re machined more than once until the final condemning limits are reached. When you go to checkout, you can enter your shipping information and then print out your order form for the items. Page 7 Click on an item below to see details You may use the Add to Cart button to add an item to your shopping cart. Clothing Rail The Boathouse Coffee Shop The Boathouse Coffee Shop The Boathouse Coffee Shop DIY Bar Climbing Wall Climbing Wall Climbing Wall Outdoor gym Fence and handrail Curtain Rail Shelving Unit Bunk Beds Lamp Lamp Lamp Polytunnel Vegetable Cage Centre Parcs Centre Parcs Patio project Patio project Patio project Patio project Patio project Emmerdale Hide Emmerdale Hide Emmerdale Hide Emmerdale Hide Tyre swing frame Monkey bars over water A frame obstacle Tube & clamp workout bench Ninja Warrior style obstacle course Ninja Warrior style obstacle course Ninja Warrior style obstacle course Ninja Warrior style obstacle course Ninja Warrior style obstacle course Ninja Warrior style obstacle course Ninja Warrior style obstacle course Hammock Tube & clamp shelving & table Tube & clamp shelving Galvanised tube & clamp curtain rail Galvanised tube & clamp towel rail Rustic style shelving Tube & clamp kitchen unit Rustic style table & bench Wall mounted shelving Tube & clamp clothes rail Long worktable & shelving Galvanised tube and clamp handrail Galvanised tube and clamp handrail Galvanised tube and clamp handrail Galvanised tube and clamp handrail Galvanised tube and clamp handrail Galvanised tube and clamp handrail Galvanised tube and clamp handrail Galvanised tube and clamp handrail Walk-in wardrobe Walk-in wardrobe Walk-in wardrobe Walk-in wardrobe Galvanised tube and clamps bar table Climbing frame for park Aluminium treadplate shoe display Workshop/garage bench The Metal Store Trade Counter Display shelving Blackened tube clamp coffee shop shelving Garden project seating area 1 Handrail for home steps Bed Shelf Internal steps with wood Garden project seating area - underneath bench Clothing rail and shelf Cooker Splashback Garden project seating area 2 Galvanised tube and scaffold board shelving Garden project seating area 3 Four Poster Bed Galvanised tube climbing frame Mobile clothing rail and shelf Warehouse shelving Clothing rail with wood shoe rack Pull up bar Galvanised tube with wooden handrail Scaffold plank shoe display Workshop/garage bench and shelving Kitchen splashback Tube Clamp Table & Bench Set Powder coated rectangle section table Tube clamp desk and shelving Clothes rail Tube clamp bed with powder coated frame Barbecue stand Console Table Bunk Bed Scaffold plank dining table Bedside table Cat ladder Kitchen island Bed frame and dressing area Galvanised tube frame Galvanised tube and tube clamp cafe furniture Galvanised tube and tube clamp punch bag frame Tube clamp clothing display rack Galvanised tube table with bench seating and wood top Weld mesh rotisserie cage Unbreakable mirror for stables Bed with clothes hanging Outside steps railing with treadplate Tube clamp and wood bunk bed Galvanised tube raised seating area Shopping trolley bay galvanised tube and clamps Galvanised tube pvc banner frame Galvanised tube and galvanised walkway Clothing rail with metal shoe rack Galvanised tube and fittings outside storage area Galvanised tube and clamp garden shade Galvanised tube, fittings and weld mesh barrier Galvanised tube and clamp shop display Galvanised tube and clamp cricket nets Mobile clothing rail DDA bracket and powder coated tube Tube clamp bed with drawers DDA galvanised tube handrail Table with bench Mobile clothing rail front view Protocraft was established in 1994 as a company to provide the O scale modeler with fully scale components (in fine scale Proto:48) such as wheels, trucks, couplers and accurate decals, in order to replace the oversize O scale wheels and the necessary over-wide trucks; replace KaDee's with accurately scaled working all-brass couplers. Protocraft has modeled all three tire profiles on the appropriate wheels based on the prototype tonnage ratings. Running tire thickness also varies according to the prototype - from single-wear, two-wear and multi-wear. This is a labor intensive process and is the only wheel on the market with full back side and accurate hub detail. All prototype wheels are 5-1/2' wide, including the flange width. The flange has a height of 1 inch. (see table below). Single-wear wheels, when the tread has worn down to condemning limits, is discarded. When you go to checkout, you can enter your shipping information and then print out your order form for the items. Page 6 Click on an item below to see details You may use the Add to Cart button to add an item to your shopping cart. All models are available in either O scale or Proto:48. Two-wear wheels, when worn to their condemning limits, were then shopped on large lathes and a new tread cut, then reinstalled for mainline use once again for one more use. Many artists have contributed to the decal line such as Rick Leach, Ted Culotta, Greg Komar, Bill Schneider, Bruce Blalock and James Hickey to name a few. All parts are made and assembled in the USA. The wheelsets are then assembled on a special press assembly jig to an accurate back to back measurement of 1.106'+/- .002' with a tolerance for spring-back of .001'. The absence of the back side of the journal box is indicative of the O gauge necessity to clear the thick wheels. The accurately scaled model truck on the right is more than just pleasing to the eye - as an accurate model itself it compliments and finishes the overall model. Protocraft provides wheel-pairs with insulators on both wheels or on only one side if electrical pick-up is required for either caboose and cabin cars or tenders.

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