

Aluminum Melting & Holding Furnaces



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Melting & Holding Furnace Models

Resco cast

Sureflow

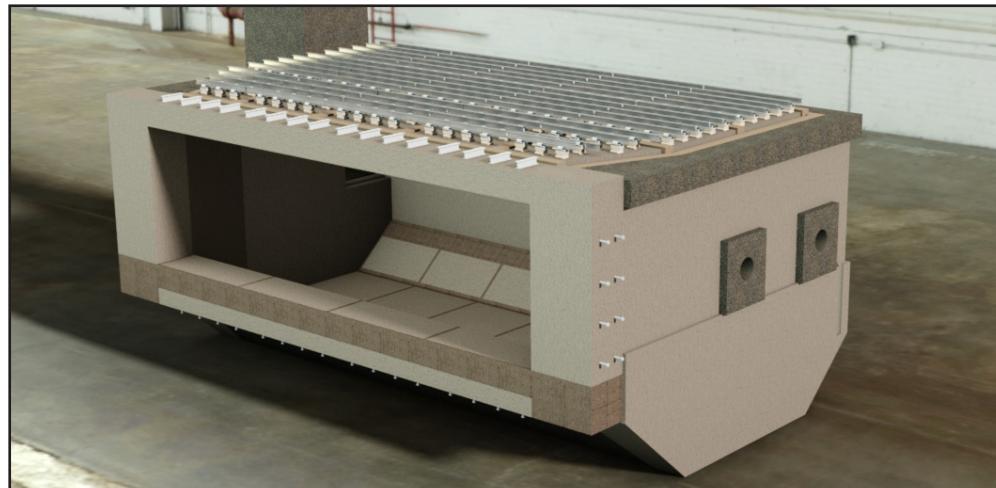
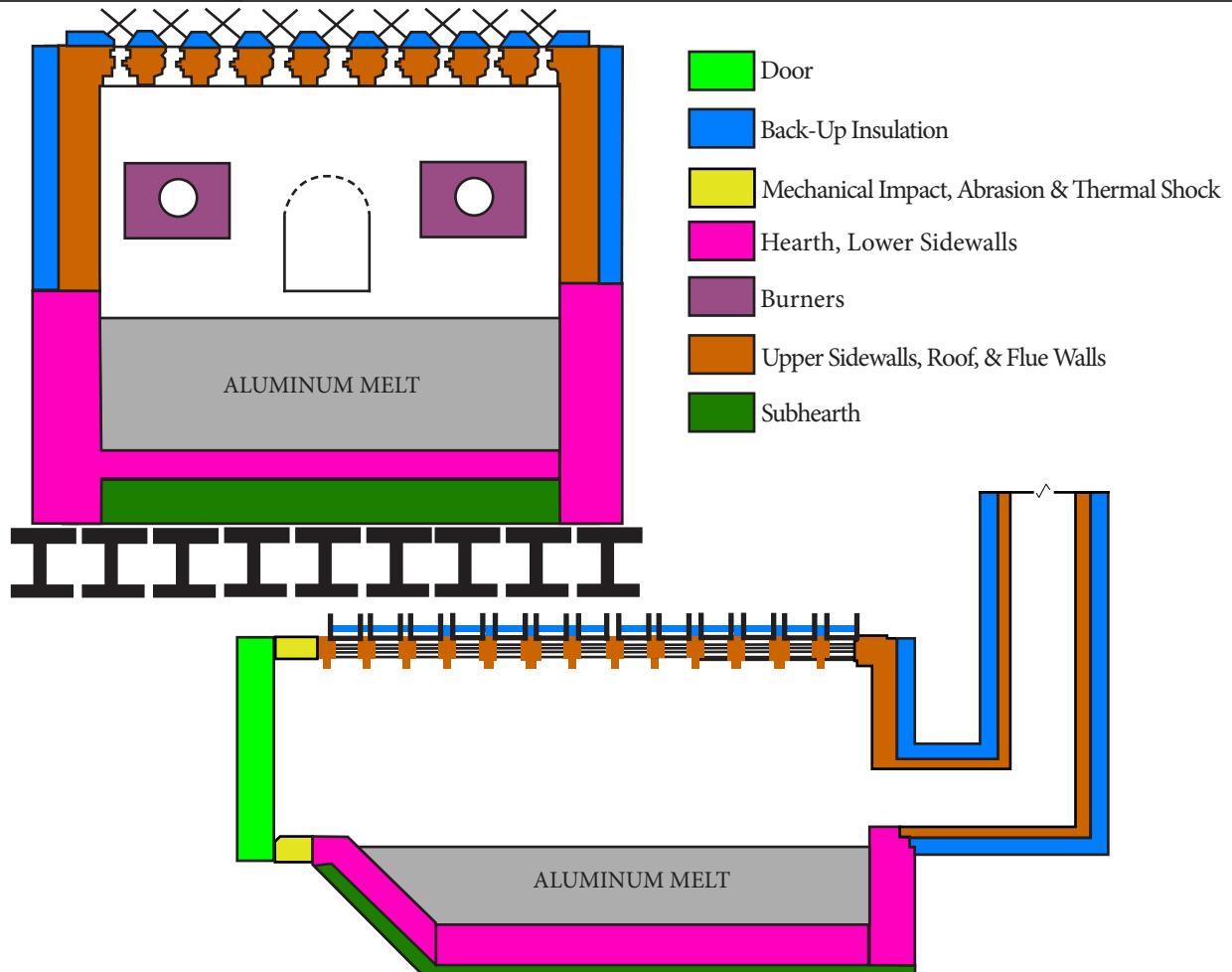
Rescal

Vibrocast

Mighty Fibre

Quikturn

Rescolite



Visit our YouTube channel @ Resco Products to view our Aluminum Furnace 3D Video!

Melting & Holding Furnace

Recommended Products

RECOMMENDED CASTABLES

FURNACE SECTION	CAST-IN-PLACE	PUMPABLE	PRECAST
Roof (Hot Face)	Vibrocast 60 Quikturn 60C EZ3 60LQY	Vibrocast 60PC Quikturn 60PC EZ3 60LQY	Vibrocast 60 Quikturn 60C EZ3 60LQY
Roof Backup (Insulating)	Rescolite 20 Rescolite 30 Rescolite 80	Rescocast 3-35PC	Rescolite 80
Upper Sidewall (Hot Face)	Vibrocast 60 Quikturn 60C EZ3 60LQY	Vibrocast 60 Quikturn 60C EZ3 60LQY	Vibrocast 60 Quikturn 60C EZ3 60LQY
Upper Sidewall Backup (Insulating)	Rescolite 20 Rescolite 30 Rescolite 80	Rescocast 3-35PC	Rescolite 80
Lower Sidewall (Metal Contact - Hot Face)	Sureflow 80ALR		Sureflow 80ALR
Lower Sidewall Backup (Non-Insulating - Dense)	Quikturn 45C(A)	Quikturn 50PC(A)	Quikturn 45C(A)
Hearth	Sureflow 80ALR	Furnacubed R-Max Furnacubed 85QT	Sureflow 80ALR
Subhearth (Non-Insulating-Dense)	Quikturn 45C(A)	Quikturn 50PC(A)	
Ramp (Hot Face)	R-MAX C(A)	R-MAX PC QT (A)	R-MAX C(A)
Ramp (Backup)	Quikturn 45C(A)	Quikturn 50PC(A)	
Hot Wall	Sureflow 80ALR		
Burner Block	Sureflow 60DC		
Door Perimeter (Sill, Jambs, Lintel)	R-MAX C(A) Viibrocast 56SC	Vibrocast 56SCPC	MightyFibre SIL2-HCA-25
Maintenance	Rescobond 3000A	Rescobond 3000AG (Gunite Only)	

RECOMMENDED BRICK

FURNACE TYPE	RESCO BRAND	DESCRIPTION
Reverb Furnace Lower Sidewall (Hot Face) Hearth (Hot Face) Ramp (Hot Face)	Rescal 80BP	Burned , Phosphate Bonded 80% Alumina
	Rescal 80PA	Unburned , Phosphate Bonded 80% Alumina
	Rescal 85 BP	Burned , Phosphate Bonded 85% Alumina
	Alumex P-85 HS	Burned , Phosphate bonded 80% Alumina
Mortar for Rescal brick	Ladlelock 85PB-TR	WET , Phosphate bonded 83% Alumina Mortar
Ramp Backup/Roof Perimeter	Patriot	Burned , superduty brick

Melting & Holding Furnace Recommended Products

Rescocast

Sureflow

Rescal

Vibrocast

MightyFibre

Quikturn

Rescolite



Rescocast 1400G	is a general duty hydraulically bonded castable for temperatures up to 1400°C. Typical uses include aluminum door lining and door supports. RESCOCAST 1400G is a general duty hydraulically bonded castable for temperatures up to 1400°C.
Sureflow 60DC	is a 60% Alumina, Mullite based, Self flowing low cement castable. This product is recommended for Pre-cast Shapes or new and full lining repairs using anchored construction. SUREFLOW 60DC has good strength, thermal shock and abrasion resistance.
MightyFibre SIL2-HCA-25	is part of a family of composite products consisting of a blend of oxidation resistant stainless steel fibres combined with a fine grained castable matrix. This combination allows pre-cast elements to be produced which exhibit extreme thermal shock, impact and erosion resistance combined with super high strengths. Manufacture does not use the established infiltration method; instead a mixing technique is employed which allows a coarser and much stronger matrix to be used than previously possible. This product can only be supplied in the form of pre-cast shapes.
Rescocast 1500MI(A)	is a hydraulic setting medium alumina castable which is suitable for temperatures up to 1500°C. This general duty castable is an ideal choice for a subhearth material in aluminum melter/holding furnaces as it is non wetting to aluminum alloys up to 815°C.
Sureflow 80 ALR	is a 80% Alumina, Bauxite based castable designed for aluminum contact areas such as melting and holding furnace hearths and lower side walls. SUREFLOW 80ALR has excellent strength, alkali and abrasion resistance. It is non-wetting to aluminum and its alloys at all typical melt temperatures. SUREFLOW 80ALR is designed for installation by pouring with no vibration.
Rescolite 20	is a 50 LBS/FT ³ insulating material with low thermal conductivity, and it is normally used as back-up insulation. Material can be cast or gunned.
Quikturn 45	is a 45% alumina, chamotte based, ultra-low cement castable that is designed for vibration casting. This product is recommended for new and full lining repairs using anchored construction. After the initial set, the furnace lining can be returned to operation without the traditional controlled heating schedule. Quikturn 45 has excellent strength, alkali and abrasion resistance.
Vibrocast 45	is a 1600°C low cement castable which is ideally grain sized to give minimum porosity and linear change with maximum density and high fired strengths. It is particularly easy to install, is tolerant of mixing water fluctuations, and has excellent abrasion and alkali resistance.
Rescobond 3000AG	is a single component, chemically setting refractory gunning mix that is non-wetting to molten aluminum. It develops a quick set and can be heated shortly after installation to provide a fast "back on line" capability for your unit. RESCOBOND 3000AG 's chemical bonding system provides adherence to existing refractory, making it an effective patching material. It can be installed by gunning or hand-packing techniques
Rescolite 30	is an insulating castable with an operating temperature limit up to 1095°C, with good strength to density ratio. It can be used as an insulating material in bi-wall linings. Unlike loose fill soft insulating block, Rescolite 30 will not settle or disintegrate under adverse conditions.
Alumex P-85HS	is a phosphate bonded, high alumina brick with outstanding strengths. Designed for use mainly as an anchor brick, it is Resco's standard for these shapes.
Rescal 80 PA	is a chemically bonded 80% alumina brick designed for molten metal contact in the aluminum industry. It offers excellent sizing and tailoring.
Rescal 80 BP	is a fired, phosphate bonded 80% alumina brick used in molten metal contact in aluminum furnaces. It offers excellent strength, non-wetting characteristics, and great performance.
Rescal 85 BP	is a fired, phosphate bonded 85% alumina brick used in molten metal contact in aluminum furnaces. It offers excellent strength, non-wetting characteristics, and great performance.

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