

## riss

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- Gravity **23.3 BLG**
- ABV **10.7 %**
- IBU **46**
- SRM **63.7**
- Style **Russian Imperial Stout**

### Batch size

- Expected quantity of finished beer **15.5 liter(s)**
- Trub loss **10 %**
- Size with trub loss **17.1 liter(s)**
- Boil time **90 min**
- Evaporation rate **25 %/h**
- Boil size **26.7 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **24 liter(s)**
- Total mash volume **32 liter(s)**

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Fawcett - Crystal	1 kg (12.5%)	70 %	160
Grain	Viking Pale Ale malt	6 kg (75%)	80 %	5
Grain	Weyermann - Carafa II special	0.5 kg (6.3%)	70 %	1150
Grain	Jęczmień palony	0.5 kg (6.3%)	55 %	1400

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	45 g	60 min	12.1 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Slant	200 ml	Fermentum Mobile