

## risik v1,1

- Gravity **25.5 BLG**
- ABV **12 %**
- IBU **60**
- SRM **61.1**
- Style **Russian Imperial Stout**

### Batch size

- Expected quantity of finished beer **30 liter(s)**
- Trub loss **5 %**
- Size with trub loss **31.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **38 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **48.9 liter(s)**
- Total mash volume **65.2 liter(s)**

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	10.5 kg (64.4%)	80 %	5
Grain	Strzegom Karmel 150	1 kg (6.1%)	75 %	150
Grain	Strzegom Karmel 30	1 kg (6.1%)	75 %	30
Grain	Jęczmień palony	0.1 kg (0.6%)	55 %	985
Grain	Strzegom Czekoladowy jasny	0.5 kg (3.1%)	68 %	400
Grain	Strzegom Czekoladowy ciemny	0.7 kg (4.3%)	68 %	1200
Grain	Płatki owsiane	0.8 kg (4.9%)	85 %	3
Grain	Strzegom Karmel 600	0.7 kg (4.3%)	68 %	601
Grain	Płatki pszeniczne	0.5 kg (3.1%)	85 %	3
Grain	Strzegom Barwiący	0.5 kg (3.1%)	68 %	1300

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	taget	50 g	60 min	9 %
Boil	taurus	50 g	60 min	11.1 %
Boil	Marynka	15 g	60 min	8 %
Boil	Challenger	30 g	60 min	8.4 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Liquid	1000 ml	Fermentum Mobile