

RIS

- Gravity **24.2 BLG**
- ABV **11.2 %**
- IBU **71**
- SRM **95.1**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.8 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **17.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (57.1%)	80 %	5
Grain	Weyermann Caramunich 3	0.5 kg (7.1%)	76 %	150
Grain	Strzegom Czekoladowy ciemny	0.5 kg (7.1%)	68 %	1200
Grain	Strzegom Karmel 600	1 kg (14.3%)	68 %	601
Grain	Cafe	0.5 kg (7.1%)	75.5 %	500
Grain	Jęczmień palony	0.5 kg (7.1%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	40 g	50 min	13.4 %
Boil	Willamette	30 g	30 min	4.5 %
Aroma (end of boil)	Bullion	30 g	10 min	5 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Slant	300 ml	Fermentum Mobile