

Ciemne Ale "Step into darkness" (~Schwarzbier)

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **21**
- SRM **31.1**
- Style **Schwarzbier**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.4 liter(s)**
- Total mash volume **21.8 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Monachijski	3 kg (55%)	80 %	16
Grain	Viking Melanoidynowy	1 kg (18.3%)	75 %	60
Grain	Caramunich® typ I	0.5 kg (9.2%)	73 %	80
Grain	Płatki owsiane	0.2 kg (3.7%)	60 %	3
Grain	Fawcett - Pale Chocolate	0.25 kg (4.6%)	71 %	600
Grain	Strzegom Karmel 600	0.25 kg (4.6%)	68 %	601
Grain	Fawcett - Pszeniczny Czekoladowy	0.25 kg (4.6%)	73 %	1001

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Książęcy	15 g	60 min	7 %
Boil	Książęcy	15 g	20 min	7 %
Aroma (end of boil)	Książęcy	20 g	5 min	7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	10 g	Fermentis