

Bitter

- Gravity **10.5 BLG**
- ABV **4.2 %**
- IBU **35**
- SRM **12.3**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14 liter(s)**

Mash information

- Mash efficiency **72 %**
- Liquor-to-grist ratio **6 liter(s) / kg**
- Mash size **14.3 liter(s)**
- Total mash volume **16.7 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	0.4 kg (16.7%)	80 %	4
Grain	Strzegom Pszeniczny	0.7 kg (29.3%)	81 %	6
Grain	Strzegom Monachijski typ I	0.8 kg (33.5%)	79 %	16
Grain	Biscuit Malt	0.2 kg (8.4%)	79 %	45
Grain	Cara crystal Castlemalting	0.12 kg (5%)	78 %	120
Grain	Aroma CastleMalting	0.12 kg (5%)	78 %	100
Grain	Fawcett - Pale Chocolate	0.05 kg (2.1%)	71 %	600

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Izabella	10 g	45 min	5.1 %
Boil	East Kent Goldings	30 g	10 min	5.1 %
Whirlpool	Zula	20 g	10 min	8.3 %
Boil	Zula	10 g	10 min	8.3 %