

Special Bitter

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **33**
- SRM **7.5**
- Style **Special/Best/Premium Bitter**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.5 liter(s)**
- Total mash volume **18 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.2 kg (71.1%)	80 %	5
Grain	Strzegom Wiedeński	1 kg (22.2%)	79 %	10
Grain	Strzegom Karmel 150	0.3 kg (6.7%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnat	20 g	60 min	11.2 %
Boil	East Kent Goldings	15 g	20 min	5.1 %
Boil	East Kent Goldings	15 g	5 min	5.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM12 W szkocką kratę	Ale	Slant	150 ml	Fermentum Mobile