

## Black London Cab

- Gravity **11.5 BLG**
- ABV ---
- IBU **34**
- SRM **40**
- Style **Dry Stout**

### Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

### Steps

- Temp **67 C**, Time **50 min**
- Temp **78 C**, Time **10 min**
- Temp **50 C**, Time **5 min**
- Temp **63 C**, Time **15 min**

### Mash step by step

- Heat up **15 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **5 min** at **50C**
- Keep mash **15 min** at **63C**
- Keep mash **50 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **20.4 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

### Fermentables

| Type  | Name                     | Amount       | Yield | EBC |
|-------|--------------------------|--------------|-------|-----|
| Grain | Strzegom Pale Ale        | 3 kg (60%)   | 79 %  | 6   |
| Grain | Oats, Flaked             | 0.5 kg (10%) | 80 %  | 2   |
| Grain | Jęczmień palony          | 0.5 kg (10%) | 55 %  | 985 |
| Grain | Strzegom Czekoladowy 400 | 0.5 kg (10%) | 68 %  | 400 |
| Grain | Strzegom Karmel 150      | 0.5 kg (10%) | 75 %  | 150 |

### Hops

| Use for             | Name          | Amount | Time   | Alpha acid |
|---------------------|---------------|--------|--------|------------|
| Boil                | Challenger    | 25 g   | 50 min | 7 %        |
| Boil                | Target        | 15 g   | 50 min | 10.5 %     |
| Aroma (end of boil) | Kent Goldings | 10 g   | 5 min  | 5.5 %      |

### Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

|                                    |     |     |      |                 |
|------------------------------------|-----|-----|------|-----------------|
| Mangrove Jack's<br>M07 British Ale | Ale | Dry | 12 g | Mangrove Jack's |
|------------------------------------|-----|-----|------|-----------------|